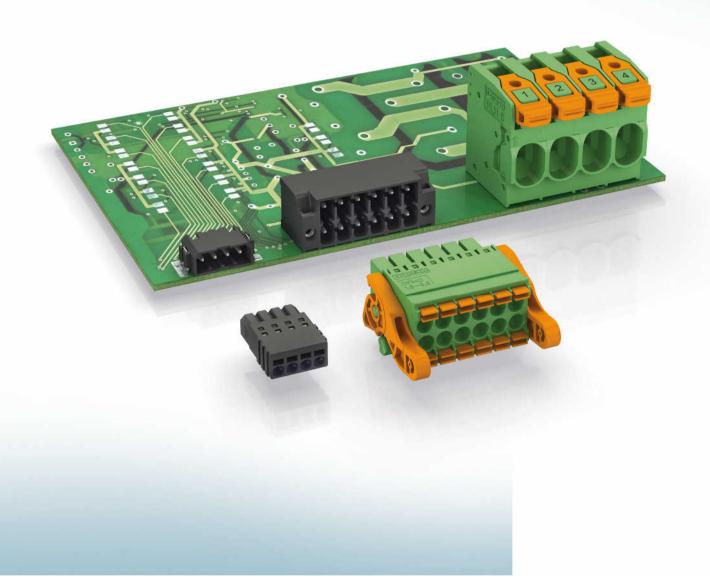
PCB Connection Technology and Electronics Housing 2013/2014







PCB connection technology and electronics housing



Connection technology for field devices

- Plug-in connectors
- Cables and connectors



Modular terminal blocks

· Modular terminal blocks



Sensor/actuator cabling and industrial plug-in connectors

- Sensor/actuator cabling
- · Cables and connectors
- Plug-in connectors



Marking systems, tools, and mounting material

- · Marking and labeling
- Tools
- · Installation and mounting material



Surge protection and power supply units

- Lightning monitoring system
- · Surge protection and interference filters
- · Power supply units and UPS
- · Protective devices



Interface technology and switching devices

- · Electronic switching devices and motor control
- Measurement and control technology Monitoring
- Relay modules System cabling for controllers



Control technology, I/O systems and automation infrastructure

- Ethernet networks Functional safety HMIs and industrial PCs I/O systems
- · Industrial lighting and signaling · Industrial communication technology
- Fieldbus components and systems Wireless data communication
- Process infrastructure Software Controllers

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Plug-in card blocks and socket strips according to DIN 41617 and IEC 60603-2/DIN 41612	COMBICON control 19 inch		773

COMBICON control

Connection technology for measurement and control technology and I/O modules: PCB terminal blocks and plug-in connectors with 2.54 to 7.62 mm pitch, screw, spring-cage, and insulation displacement connection, wave soldering.

From page 71

COMBICON high density & data

Plug-in connectors in miniature format - fast insulation displacement, spring, and pierce connection technology, T-branches for easy bus connections.

From page 45

COMBICON power

Connection technology for power electronics: PCB terminal blocks and plug-in connectors for currents up to 125 A, screw and spring-cage connection, panel feed-throughs.

From page 439

COMBICON compact

Device connections for building technology and LED applications: PCB terminal blocks and plug-in connectors with 2.5 to 7.5 mm pitch, screw and spring-cage connection as well as pin strips.

From page 385

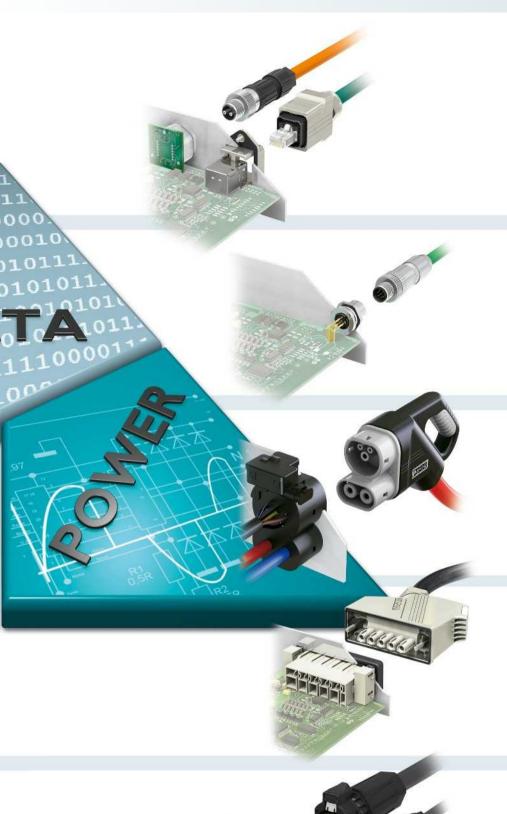
Housing

Plastic and aluminum electronics housing: component housing and panel mounting bases for industrial electronics, component housing for building installation, innovative bus connections between housing.

From page 647







PLUSCON data

Plug-in connectors, panel feed-throughs, and cables for fieldbuses and networks.

See Catalog 2

PLUSCON circular

Flush-type plugs, plug-in connectors for assembly, and cables from M5 to M58 for signals, data, and power.

See Catalog 2

PLUSCON power

Plug-in charging systems for electromobility up to 400 A and plug-in connectors for power electronics up to 150 A.

See Catalog 2

PLUSCON device

Rectangular plug-in connectors with modular contact system for signals, power, and fiber optics with IP67 protection and available in various sizes.

See Catalog 2



AC and DC connection systems for photovoltaic modules, inverters, and micro inverters.

See Catalog 2

Individual connection solutions for your application



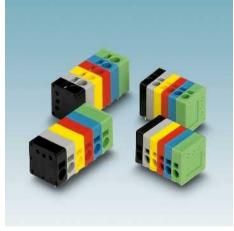
Customer-specific adaptation of standard products

Found a product in our catalogs that meets your technical requirements, but you'd prefer a tailored solution?

No problem — our Solution Center will be happy to provide you with support in implementing your requirements. Whether it's individual colors, special printing, a specific number of contacts or complete cable assembly — just let us know what you want.







New customer-specific product developments

Phoenix Contact has been producing high-quality products for worldwide use for over 85 years.

Benefit from our extensive development, manufacturing, and process expertise for your individual solution. Together with you, we can transform great ideas into innovative products.

Intelligent solutions in housing and connection technology increasingly require custom concepts.

As a manufacturer, you can develop products with us that meet the requirements of today's markets, such as high quality, individual design, and great customer benefits at a reasonable price.

You will have the entire expertise of the Phoenix Contact Group at your disposal. From our own tool shop and machine building through plastic injection molding and metal production to expertise in electronics production, we offer a depth of manufacturing that enables us to implement even demanding projects and complex products within a short development period.

Our own laboratory carries out testing throughout the process, handles the necessary qualifications and, of course, international approvals.

As a manufacturer, you can focus on your core competencies and benefit from our expertise as specialists in connection and housing technology.

Great products need great ideas and experience. Together with the expertise of Phoenix Contact, you can implement your individual solution - right from the initial idea to cost-effective series production.

Our products and services range from customer-specific PCB connection technology with screw, spring or IDC fast connection, in all conceivable designs and colors...

...through corresponding electronics housing in special designs in the color and size of your choice, together with the appropriate connection technology...

...individual field cabling, with plug-in connectors with shielding for high data transmission speeds, splash-proof housing for harsh industrial environments...

...to complete solutions consisting, for example, of splash-proof housing including the appropriate connection technology for signal, data, and power transmission, plus the ideal PCB connection.



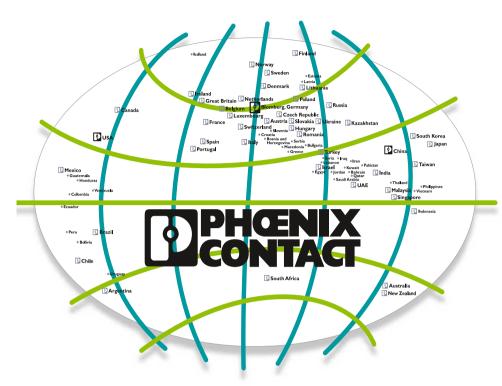






Our service - added value for you

Phoenix Contact doesn't just offer the right products, it also provides a professional service for all aspects of device development. Wherever you are in the world, Phoenix Contact's global network means that you can rely on our service. Being at home all over the world and speaking the language of the user is what we understand by customer proximity. Proximity that ensures the best service for our partners. We live up to this with more than 40 customer-oriented subsidiaries and around 30 representatives in other countries.





Personal consultation and support

As our customer, you are always the focus of attention at Phoenix Contact, whether during consultation or as part of after sales support. Expert and personal consultation forms the basis of this approach. Even though we live in the age of the Internet, personal interaction with our customers is of great importance to us.

Our team of highly motivated staff are available to you at locations around the world.



Reliable delivery service

It goes without saying that our products are delivered reliably and on time. In addition to our optimized delivery service, we offer numerous options for making the purchasing process more efficient and transparent.

With warehouses in key industrial locations throughout the world, we ensure that you receive your products from Phoenix Contact cost-effectively and within the required delivery time.

Online catalog

The online catalog provides comprehensive, up-to-date information in 7 languages for more than 22,000 products from Phoenix Contact. Here you can find product-specific information such as technical data, notes on approvals, dimensional drawings, 3D data, etc.. At the click of the mouse, you can easily generate a product data sheet in PDF format.

In over 15 countries, e-shop functions complete the online catalog. Following successful registration, you can access your prices and delivery schedules at any time and you also have the option of placing orders directly online.

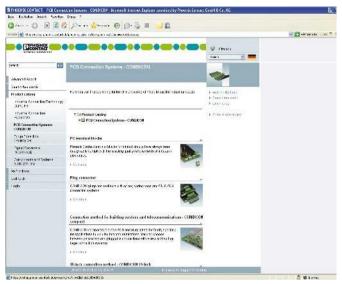
www.phoenixcontact.net/products

Online search assistants

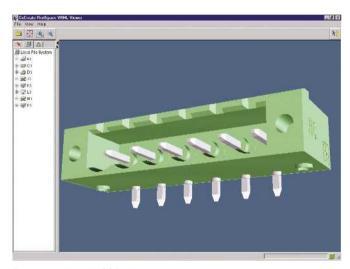
Online search assistants help you to search systematically and quickly for products from our extensive range of plug-in connectors. By selecting electrical values and other product properties, you are taken directly to the products that meet your requirements.

- COMBICON select
 PCB connection and electronics housing
- PLUSCON field select
 Flush-type plugs for sensor/actuator applications
- PLUSCON data select
 Device plug-in connectors for fieldbuses and networks
- PLUSCON circular select
 M17 to M58 device plug-in connectors

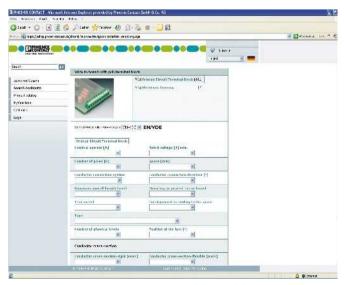
www.phoenixcontact.net/products



Find product-specific information quickly in the online catalog



Easy download of 3D data

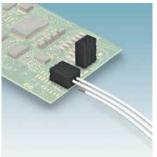


User-friendly product search with COMBICON select

Device connection technology for signals, data, and power from Phoenix Contact

Product range overview

COMBICON HD - miniature PCB terminal blocks and plug-in connectors with high contact density



Miniature THR/SMD PCB terminal blocks and plug-in connectors with 2.5 mm pitch PTSM 0,5...THR Page 51 PTSM 0.5...SMD Page 53



Miniature plugs and headers with 2.5 mm pitch
PTSM 0,5... Page 55
PTPM Page 57



Miniature PCB terminal block with displacement connection with 2.5 mm pitch
PTQ 0,3...THR Page 63



Plug-in connectors with displacement connection and headers with 2.0 mm pitch CIOC...(M)(F) Page 65 CIOC...F(V)(H) Page 67

COMBICON control – multi-position and multi-level PCB terminal blocks



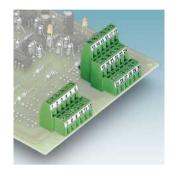
Through hole reflow applications with screw connection 3.5/3.81/5.0/5.08 mm pitch MKDS Page 75



Through hole reflow applications with pushin spring connection 3.5/3.81/5.0/5.08 mm pitch SPT-THR 1,5 Page 78



 $\begin{tabular}{lll} Multi-position PCB terminal blocks \\ 2.54/3.5/3.81 \ mm pitch \\ \begin{tabular}{lll} MPT 0,5; 0,5 \ mm^2 & Page 83 \\ SMKDS 1; 1,5 \ mm^2 & Page 85 \\ \end{tabular}$

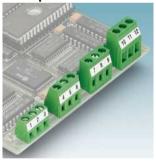


Double and three-level PCB terminal blocks with 3.5/3.81 mm pitch

MKKDS 1/... Page 85

MK3DS 1/... Page 87

Multi-position and multi-level PCB terminal blocks with screw connection



MKDSN 1,5; 1.5 mm² MKDS 1,5; 1.5 mm² MKDSN 2,5; 2.5 mm²

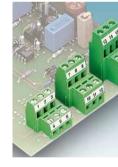


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SMKDSN 1,5; 1.5 mm² **SMKDS 1,5**; 1.5 mm² **SMKDS 2,5**; 2.5 mm²



Double-level PCB terminal blocks MKKDSN 1,5; 1.5 mm² MKKDS 1,5; 1.5 mm² MKKDS 3; 2.5 mm²



Multi-level PCB terminal blocks MK3DS 1,5/...-5,08 MK4DS 1,5/...-5,08 MK3DS 3/...-5,08

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High, flat, and multi-position PCB terminal blocks with screw connection



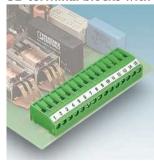
High PCB terminal blocks with 5.0/5.08 mm pitch MKKDSNH 1.5/...-5,08 Page 93

MKKDSNH 1,5/...-5,08 MK3DS 1,5/...-5,08-BC Page 93 Page 99

Page 91

Page 95

Page 103



Horizontal design with 3.5/5.0 mm pitch

MKDSFW 1,5/...-3,5

MKDSFW 3/...

Page 107



With internal bridging MKDS 1,5-B; 1.5 mm² MKDS 3-B; 2.5 mm²

Page 97 Page 105

Page 93

Page 97 Page 109

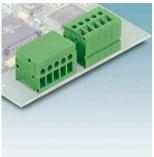


Orthogonal PCB terminal blocks MKDSO 1,5/...3,5 MKDSO 2,5/...-5,0 MKDSO 2,5 HV/...-7,5

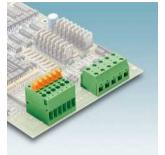
Page 89 Page 113 Page 125

Product range overview

COMBICON control – multi-position **PCB** terminal blocks with screw connection



Horizontal and vertical PCB terminal blocks with front connection with 5.0 mm pitch, 2.5 mm² connection cross section FRONT 2,5/... Page 114

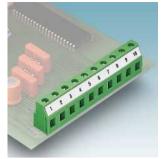


 KDS (2,5)
 Page 117

 KDS 3-PMT
 Page 168

 KDS 3-MT
 Page 117

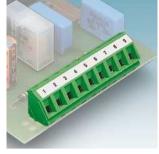
 KDS(P) 4
 Page 127



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7.5/7.62 mm pitch GMKDSN 1,5; 1.5 mm² GMKDS 1,5; 1.5 mm²



7.5/7.62 mm pitch GSMKDSN 1,5; 1.5 mm² GSMKDSP 1,5; 1.5 mm² GSMKDS 3: 2.5 mm²

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PCB terminal blocks with spring-cage connection or push-in spring connection



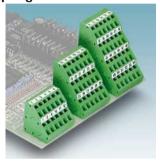
Angled PCB terminal blocks with springcage connection **ZFKDS 1-3,81** Page 129

Page 135

ZFKDS 2,5-5,08



Compact design, 5.0 mm pitch, 1.5 mm² connection cross section ZFKDS 1,5C-5,0 Page 131



Two, three, and four-level PCB terminal blocks with 5.08 mm pitch, 2.5 mm² connection cross section Page 133

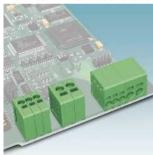


Angled PCB terminal blocks with push-in spring connection

SPTA 1/... Page 137

SPTA 1,5/... Page 139

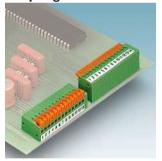
PCB terminal blocks with push-in spring connection or displacement connection



Horizontal and vertical push-in spring connection, 3.5/5.0 mm pitch

SPT 1,5/...-3,5 Page 141

SPT 2,5/...-5,0 Page 143



Horizontal and vertical push-in spring connection, 2.54/3.81/5.08/7.62 mm pitch

FFKDS(A)... Page 1

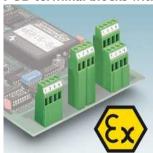


Orthogonal push-in spring connection FKDSO... Page 153



Displacement connection with 3.81 mm pitch, 0.5 mm² connection cross section IDC 0,3/...-3,81 Page 154

PCB terminal blocks with screw connection or spring connection for the Ex area



High PCB terminal blocks with 5.0/5.08 mm pitch

MKKDSH 3/...-EX Page 157
MK3DSH 3/...-5,08-EX Page 157
MK3DSMH 3/...-5,08-EX Page 157



Horizontal and vertical PCB terminal blocks with front connection with 5.0 mm pitch, 2.5 mm² connection cross section

FRONT 2,5/...-EX Page 158

Spring-cage connect pitch ZFKDS 1,5C-5,0-EX ZFKDS 2,5-5,08-EX



Spring-cage connection with 5.0/5.08 mm pitch ZFKDS 1,5C-5,0-EX Page 161

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Horizontal and vertical push-in spring connection with 3.5/5.0 mm pitch

SPT 2,5/...-5,0-EX Page 163

Device connection technology for signals, data, and power from Phoenix Contact

Product range overview

COMBICON control - plug-in connector systems with 2.5/2.54/3.5/3.81 mm pitch



Plugs and headers, 2.5 mm pitch FK-MC 0,5/...-ST-2,5 MC(V) 0,5/...-G-2,5(THT) Page 168



Push-in plugs and headers for THR and SMD processes with 2.54 mm pitch FMC 0,5; 0.5 mm² Pa



Double-row plug-in connector with push-in spring connection, 3.5 mm pitch DFMC 1,5/...-ST(F)-3,5(-LR) Page 184



Inverted plugs with screw connection, 3.81 mm pitch MC 1,5/...-ST(F)-.. IMC 1.5/...-ST(F)-3.81 Page 196

Plug-in connectors with 3.5/3.81 mm pitch with screw or push-in spring connection



Plugs with 3.5/3.81 mm pitch, plug-in direction vertical to the conductor axis MCVR(W) 1,5/...-ST(F)-...



Plugs with front connection, 3.81 mm pitch FRONT-MC 1,5/...-ST(F)-... Page 194

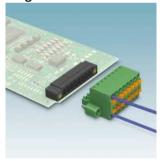


Plugs with push-in spring connection, 3.5/3.81 mm pitch **FK-MCP 1,5/...-ST(F)-...** Page 198



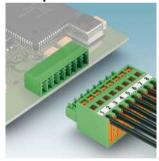
Plugs with push-in spring connection, 3.5/3.81 mm pitch, flat, compact design FMC 1,5/...-ST(F)-... Page Page 200

Plug-in connectors with 3.5/3.81 mm pitch and headers for reflow and wave soldering processes



TWIN plugs with push-in spring-cage connection, 3.5/3.81 mm pitch, for potential dis-

TFMC 1,5/...-ST(F)-...



Plugs with IDC displacement connection, 3.81 mm pitch, connection cross section QC 0,5/...-ST(F)-3,81

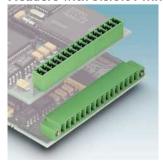


Plugs with crimp connection, 3.81 mm pitch, 1.0 mm² connection cross section MCC 1/...-STZ(F)-3,81



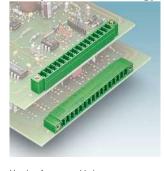
Reflow solderable headers, 3.5/3.81 mm pitch, horizontal and vertical plug-in direction Page 208

Headers with 3.5/3.81 mm pitch for press-in technology and wave soldering processes



Headers for press-in technology, 3.5/3.81 mm pitch, horizontal and vertical plug-in di-Page 222

EMC(V) 1,5/...-G(F)-...



Headers for wave soldering process. 3.5/3.81 mm pitch, horizontal and vertical plug-in direction MC(V) 1,5/...-G(F)-... Page 224



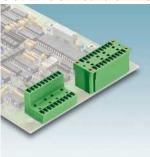
Headers with 3.81 mm pitch with orthogonal plug-in direction MCO 1,5/...-G-3,81 Page 231



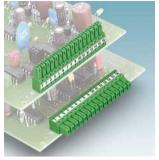
Headers with 3.5 mm pitch with orthogonal plug-in direction MCO 1,5/...-G1...-3,5 Page 232

Product range overview

COMBICON control - headers with 3.81 mm pitch



Double-level headers, 3.81 mm pitch, horizontal and vertical plug-in direction MCD(V) 1,5/...-G(F)-3,81 Page 234



Inverted headers, 3.81 mm pitch, horizontal and vertical plug-in direction IMC(V) 1,5/...-G(F)-3,81 Page 238



Feed-through headers, 3.81 mm pitch, with spade connection **DFK-MC 1,5/...-G(F)-3,81**Page 240

Cable housing for screw plue 3.81 mm pitch KGG-MC 1,5/...

Cable housing for screw plugs, 2- to 16-pos., 3.81 mm pitch

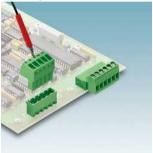
KGG-MC 1,5/... Page 242

MCVR 1,5/...ST(F)... Page 192

Plug-in connectors with 5.0/5.08 mm pitch with screw connection

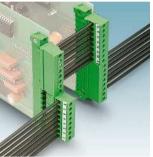


Plugs with screw connection and headers, 5.08 mm pitch MC 1,5/...-ST(F)-5,08 Page 246



Plugs with screw connection, 5.0/5.08 mm pitch, with/without test connection

MSTB 2,5/....-ST(F)-... Page 262



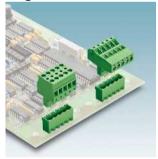
Plugs with screw connection, 5.0/5.08 mm pitch, plug-in direction 90° to the conductor axis

MVSTBR(W) 2,5/...-ST(F)-... Page 26



Plugs with front screw connection, 5.0/5.08 mm pitch FRONT-MSTB 2,5/...-ST(F)-... Page 269

Plug-in connectors with 5.0/5.08 mm pitch with screw and push-in spring connection

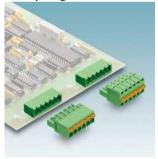


TWIN plugs, 5.08 mm pitch, for potential distribution

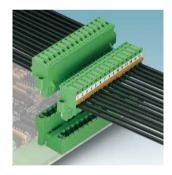
TMSTBP 2,5/...-ST(F)-5,08 Page 270



Inverted plug with screw connection, 5.08 mm pitch IC 2,5/...-ST(F)-5,08 Page 272



Plugs with push-in spring connection, 5.0/5.08 mm pitch FKC(T) 2,5/...-ST(F)-... Page 274



Plugs with push-in spring connection, 5.0/5.08 mm pitch, plug-in direction 90° to the conductor axis FKCVR(W) 2,5/...-ST(F)-... Page 280

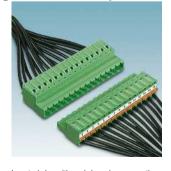
Plug-in connectors with 5.0/5.08 mm pitch with push-in spring or insulation displacement connection



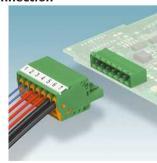
TWIN plugs with push-in spring connection, 5.0 mm pitch, for potential distribution TVFKC 1,5/...-ST-5,0 Page 282



TWIN plugs with push-in spring connection, 5.08 mm pitch, for potential distribution TFKC 2,5/...-ST-5,08 Page 284



Inverted plug with push-in spring connection, 5.0/5.08 mm pitch FKIC 2,5/...-ST(F)-... Page 286



Plugs with IDC displacement connection, 5.0/5.8 mm pitch QC 1,0/...-ST(F)-5,08 Page 290 QC 1,5/...-ST(F) Page 292

Device connection technology for signals, data, and power from Phoenix Contact

Product range overview

COMBICON control - plug-in connectors with 5.0/5.08 mm pitch with crimp connection and header



Plugs with crimp connection, 5.08 mm pitch MSTBC 2,5/...-ST(Z)(F)-5,08 Page 294 Page 294



Inverted plugs with crimp connection, 5.08 mm pitch ICC 2,5/...-STZ(F)-5,08

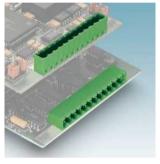


Reflow solderable headers, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction CCA(V) 2,5/...-G(F)-... THR Page 298



Reflow solderable headers, 5.0 mm pitch, with orthogonal plug-in direction MSTBO 2,5/...-G1-5,0 THR Page 308

Headers with 5.0/5.08 mm pitch for press-in technology and wave soldering processes



Headers for press-in technology, 5.0/5.08 mm pitch, horizontal and vertical plug-in di-

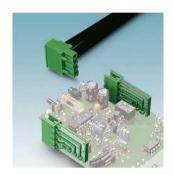
EMSTB(V) 2,5/...-G(F)-... Page 310



Headers for wave soldering processes, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction MSTB(V) 2,5/...-G(F)-... Page 312



Headers with 5.0/5.08 mm pitch, angled plug-in direction, with/without side panel SMSTB(A) 2,5/...-G(F)-... Page 3 Page 318



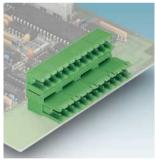
Headers with 5.08 mm pitch orthogonal plugin direction MSTBO 2,5/...-G-5,08 Page 320

Headers with 5.0/5.08 mm pitch

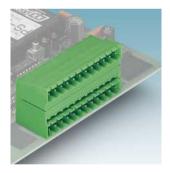


Headers with 5.0 mm pitch orthogonal plugin direction, wave/reflow soldering process-

MSTBO 2,5/...-G1...-5,0

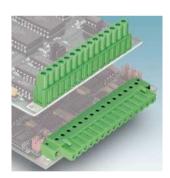


Double-level headers, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction, with level offset MDSTB(V) 2,5/...-G(F)-...



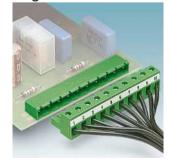
Double-level headers, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction, without level offset

MDSTB(V) 2,5/...-G1(F)-...



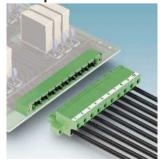
Inverted headers, 5.08 mm pitch, horizontal and vertical plug-in direction IC(V) 2,5/...-G(F)-5,08 Page 332

Plug-in connectors with 7.5/7.62 mm pitch with screw and push-in spring connection

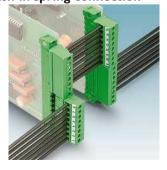


Plugs with screw connection, 7.5/7.62 mm pitch, plug-in direction parallel to the conduc-

GMSTB 2,5/....-ST(F)-... Page 334



Plugs with front screw connection, 7.5/7.62 mm pitch FRONT-GMSTB 2,5/...-ST(F)-... Page 335



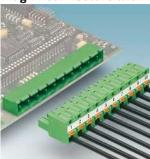
Plugs with screw connection, 7.5/7.62 mm pitch, plug-in direction 90° to the conductor

GMVSTBR(W) 2,5/...-ST(F)-... Page 336

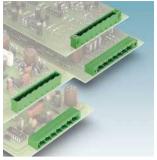


Inverted plug with screw and spring connection, 7.62 mm pitch GIC 2,5/...-ST(GF)-7,62 GFKIC 2,5/...-ST-7,62 Page 338 Page 341

Plug-in connectors with 7.5/7.62 mm pitch with push-in spring-cage connection and headers with 7.5/7.62 mm pitch



Plugs with push-in spring connection, 7.5/7.62 mm pitch, plug-in direction parallel to the conductor axis Page 340 GFKC 2,5/...-ST(F)-...



Headers with 7.5/7.62 mm pitch, horizontal and vertical plug-in direction GMSTB(V) 2,5/...-G(F)-... Page 342



Inverted headers with 7.5/7.62 mm pitch. horizontal and vertical plug-in direction GIC(V) 2,5...-G(F)-...



Cable housing for plugs with screw connection, 2- to 24-pos., 5.0/5.08/7.5/7.62 mm

Plug-in connectors for panel feed-throughs and for direct mounting



Feed-through assembly frames for inverted plug-in connectors, 5.08 mm pitch, with/with-out threaded flange IC-DFR...



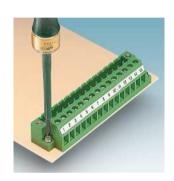
Headers for panel feed-through, 5,0/5.08 mm pitch, with spade connection





Headers for panel feed-through, 5.08 mm pitch, with spade connection





Plugs/headers with screw connection and screw flange for direct mounting MSTBU 2,5/... Page 356

Plug-in connectors for DIN rail mounting, for direct contacting with PCBs and special designs



Inverted plugs for mounting on DIN rails, 5.0/5.08 mm pitch



Plugs and headers for mounting on DIN rails, 5.08 mm pitch



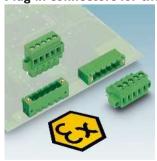
Direct plug-in connectors with spring-cage

connection ZEC 1,0/...-ST-3,5 ZEC 1,5/...-ST-5,0 Page 365 Page 365



Plugs with screw connection, for D-SUB panel feed-throughs and headers PSC 1,5/... Page 251

Plug-in connectors for the Ex area and plug-in card blocks



Plugs with screw connection and headers for the Ex area Page 368



Plugs with push-in spring connection for the Ex area, 5.08/7.62 mm pitch FKC 2.5/...STF5.08 EX Page 371 GFKC 2,5/ 2-STF-7,62 EX Page 381



Plug-in card blocks for European-format cards with indirect connection



Socket strips with screw and spring-cage connection Page 788

Device connection technology for signals, data, and power from Phoenix Contact

Product range overview

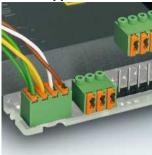
COMBICON compact - connection technology for buildings and LED applications



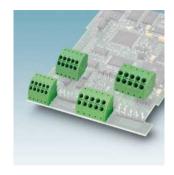
Miniature PCB terminal blocks and plugs
PTSM 0,5...THR Page 391
PTSM 0,5...SMD Page 53



Plug-in connectors for flexible PCBs
PTF 0,3... Page 401
PTPM Page 55



PCB terminal blocks and plugs with springcage double connection up to 2 x 0.5 mm² FK-MPT 0,5-3,5 series Page 403



Angled pin strip plugs with spring-cage connection of 2 x 1.5 mm² and 2 x 2.5 mm² PTDA series Page 407

PCB terminal blocks and plug-in connectors with spring/screw connection



Angled PCB terminal block with spring-cage connection, 1.5 mm²
PTSA series Page 413



PCB terminal block with horizontal springcage connection PTS series Page 415



Pin-strip plugs with spring connection PTS 1,5/...-PH-5,0 Page 417

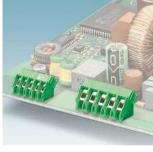


PCB terminal blocks with horizontal screw connection and conductor protection, 1.5 or 2.5 mm²
PT 1,5 series Page 419

PCB terminal blocks and plug-in connectors with screw connection

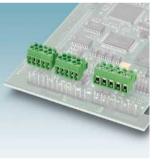


PCB terminal blocks with vertical screw connection and conductor protection, 3.5 mm pitch
PT 1,5 series Page 419



PCB terminal blocks with angled screw connection and conductor protection, 5.0 mm pitch





Pin strip plugs with screw connection and conductor protection clips, 1.5 or 2.5 mm² PT 1,5/-PVH/PH series Page 423



PCB terminal blocks with screw connection and conductor protection clips, 4 mm² PT 2,5 series Page 427

Plug-in connectors and pin strips



Multi-plug-in system with screw connection and base strips, up to 4 mm²

PT 2,5/...-PVH series Page 431

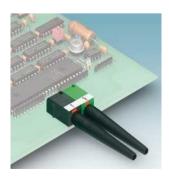


Vertical and horizontal pin strips for COMBI-CON compact plugs, reflow solderable

PST family Page 432



Reflow solderable pin strips in machine-capable tape-on-reel packing PST tape-on-reel packing Page 433



FO fast connection PCB terminal blocks for polymer fibers
FOPT 2,2-T/R Page 436

Product range overview

COMBICON power - PCB terminal blocks up to 16 mm² with screw connection



MKDS 5 series: screw connection, up to 32 A, 6.35/7.62/9.52 mm pitch **MKDS 5..** Page 443



MKDS 5 HV series: screw connection, up to 41 A, 6.35 mm/9.52 mm pitch for 600 V UL MKDS 5 HV... Page 445



MKDSP 10 series: screw connection, up to 76 A, 10.16/12.7 mm pitch with test connection
MKDSP 10... Page 451



MKDS 10 HV series: screw connection, up to 76 A, 10.16 mm pitch for 600 V UL MKDS 10... Page 451

PCB terminal blocks up to 35 mm² with screw connection



MKDSP 25 series: screw connection, up to 125 A, 15 mm pitch
MKDSP 25... Page 455



KDS 10 series: feed-through terminal block with screw connection, up to 76 A, 10 mm pitch
KDS 10/... Page 457



FRONT 4 series: front screw connection, up to 32 A, connection: horizontal, 6.35/7.62 mm pitch
FRONT 4 H... Page 459



FRONT 4 series: front screw connection, up to 32 A, connection: vertical, 6.35/7.62 mm pitch

FRONT 4 V... Page 459

PCB terminal blocks up to 16 mm² with push-in spring connection



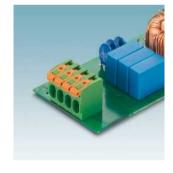
SPT 5 series: push-in spring connection, up to 41 A, connection: vertical and horizontal, 7.5 mm pitch



PTSPL 6 series: push-lock spring connection, up to 41 A, without insulating body
PTSPL 6... Page 475

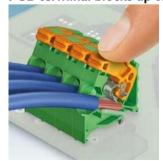


SPT 16 series: push-in spring connection, 10 mm pitch, up to 76 A, connection: vertical and horizontal SPT 16

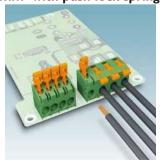


PLH-5 series: push-lock spring connection, pitch 7.5 mm, up to 41 A connection: horizontal PLH 5... Page 470

PCB terminal blocks up to 16 mm² with push-lock spring connection and spring-cage connection



PLH 5 series: push-lock spring connection, 7.5 mm pitch, up to 41 A, connection: 30° to PCB
PLH/A 5... Page 470



PLH 16 series: push-lock spring connection, 10/15 mm pitch, up to 76 A, connection: horizontal PLH 16... Page 473



ZFKDS 4 series: spring-cage connection, up to 32 A, 7.5/10 mm pitch
ZFKDS 4... Page 477

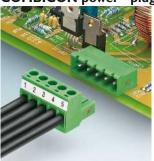


ZFKDS 10 series: spring-cage connection, up to 76 A, 10/15 mm pitch
ZFKDS 10... Page 479

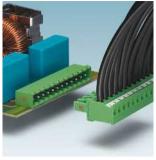
Device connection technology for signals, data, and power from Phoenix Contact

Product range overview

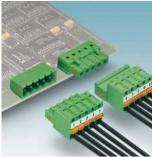
COMBICON power - plug-in connectors up to 2.5 mm² with screw and spring connection



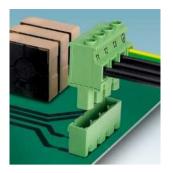
HC series: screw connection, up to 16 A, 5/5.08 mm pitch
MSTB 2,5 HC... Page 490



HC series: screw connection, vertical connection direction, up to 16 A, 5/5.08 mm pitch MVSTBR(W) 2,5 HC.... Page 492

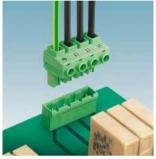


HC series: spring connection, up to 16 A, 5/5.08 mm pitch
FKC 2,5 HC... Page 494



HV series: vertical connection direction, screw connection, up to 16 A, 7.62 mm pitch, 600 V UL
GMVSTBR/W 2,5 HV... Page 500

Plug-in connectors up to 2.5 mm² with screw and spring connection



HC series: screw connection, up to 16 A, 7.62 mm pitch, 600 V UL GMSTB 2,5 HCV... Page 502



HC series: screw connection, up to 16 A, 7.62 mm pitch, 600 V UL GIC 2,5 HCV... Page 503

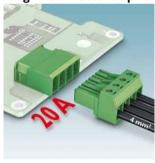


HC series: screw connection, up to 16 A, 7.62 mm pitch, 600 V UL GMSTB 2,5 HCV L&R... Page 503

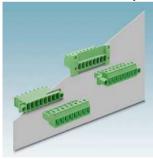


HC series: screw connection, up to 16 A, housing terminal, 600 V UL GMSTBT 2,5 HV... Page 508

Plug-in connectors up to 4 mm² with screw and crimp connection



PC 4 series: plugs/headers, screw connection, up to 20 A, 7.62 mm pitch
PC 4 ... Page 512



PC 4 series: feed-through plug screw or solder connection, up to 20 A, 7.62 mm pitch

DFK-PC 4... Page 518



PC 4 series: plugs, crimp connection, up to 20 A
PCC 4... Page 514



PC 4 series: cable housing for PC 4 plugs KGG-PC 4/KGS-PC 4... Page 522

Plug-in connectors up to 6 mm² with screw and spring connection



PC 5 series: plugs/headers, screw connection, up to 41 A, 7.62 mm pitch, also Click & Lock
PC 5 Page 524



PC 5 series: inverted plugs/headers screw connection, up to 41 A, 7.62 mm pitch IPC 5/... Page 526



PC 5 series: plugs/headers, spring connection, up to 41 A, 7.62 mm pitch
SPC 5/... Page 530



PC 5 series: inverted plugs/headers, spring connection, up to 41 A, 7.62 mm pitch ISPC 5/... Page 544

Product range overview

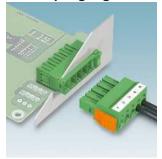
COMBICON power - plug-in connectors up to 6 mm² with screw and spring-cage connection



PC 5 series: plugs with double spring connection, up to 41 A, 7.62 mm pitch
TSPC 5... Page 532



PC 5 series: plugs/headers with EMC shield connection, up to 41 A PC 5...SH... Page 525



PC 5 series: feed-through headers, solder connection, up to 41 A DFK-PC 5... Page 544



PC 5 series: feed-through headers, screw connection, up to 41 A DFK-PC 5 Page 544

Plug-in connectors up to 16 mm² screw connection



PC 6 series: plugs/headers screw connection, up to 41 A, 10.16 mm pitch
PC 6/... Page 550



PC 6 series: plugs for direct mounting, screw connection, up to 41 A, 10.16 mm pitch
PCU 6/... Page 552



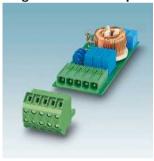
PC 16 series: plugs/headers screw connection, up to 76 A, 10.16 mm pitch
PC 16/... Page 554



PC 16 series: inverted plugs/headers with screw connection, up to 76 A, pitch 10.16 mm

IPC 16/... Page 558

Plug-in connectors up to 16 mm² with screw and spring connection



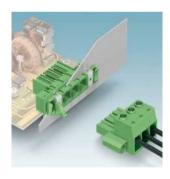
PC 16 series: plugs with double screw connection, up to 76 A, 10.16 mm pitch
TPC 16... Page 556



PC 16 series: plugs/headers with spring connection, up to 76 A, 10.16 mm pitch SPC 16... Page 562



PC 16 series: inverted plugs/headers with spring connection, up to 76 A, 10.16 mm pitch ISPC 16... Page 564



PC 16 series: feed-through headers, solder and screw connection, up to 76 A, 10.16 mm pitch

DFK-PC 16... Page 574

Plug-in connectors up to 35 mm² screw connection



PC 16 series: inverted feed-through headers, solder and screw connection, up to 76 A, 10.16 mm pitch DFK-IPC 16... Page 578



PC 35 series: plugs/headers screw connection, up to 125 A
PC 35... Page 586



PC 35 series: inverted plugs/headers screw connection, up to 125 A IPC 35... Page 588



PC 35 series: feed-through headers, solder connection, up to 125 A
DFK-PC 35... Page 593

Device connection technology for signals, data, and power from Phoenix Contact

Product range overview

COMBICON power - feed-through terminal blocks up to 16 mm² with fast connection technology



PW 4-POT series: push-in connection, up to 32 A with orange latch
PW 4-POT... Page 601



PWO 4-POT series: push-in connection, up to 32 A, without orange latch
PWO 4-POT... Page 603



PWO 16-POT series: push-in connection, up to 76 A, without orange latch
PWO 16-POT... Page 604



PLW 16 series: push-lock spring connection, up to 76 A outsider lever, inside push-in spring
PLW 16... Page 605

Feed-through terminal blocks up to 35 mm² with screw connection



UW 4 series: screw connection, up to 41 A, connection: vertical and horizontal
UW 4... Page 607



UW 10 series: screw connection, up to 76 A, connection: vertical and horizontal UW 10... Page 610



UW 16 series: screw connection, up to 101 A, connection: vertical and horizontal UW 16... Page 612



UW 25 series: screw connection, up to 125 A, connection: vertical and horizontal UW 25... Page 614

Feed-through terminal blocks up to 95 mm² with screw connection



HDFK 50 series: screw connection, up to 150 A, connection: vertical and horizontal HDFK 50... Page 617



HDFK 50-VP/HDFK 95-VP series: screw connection, up to 232 A, molded terminal blocks
HDFK 50...VP... Page 619



HDFK 95 series: screw connection, up to 232 A, connection: vertical and horizontal HDFK 95... Page 619



HDFK..TWIN series: screw connection, up to 125 A, two conductors - one potential HDFK...TWIN Page 623

High-current feed-through terminal blocks up to 150 mm² with bolt connection



RW 5 series: bolt connection, up to 76 A, connection: vertical and horizontal RW 5... Page 624



RW 8 series: bolt connection, up to 125 A, connection: vertical and horizontal RW 8... Page 626



RWO 10 series: bolt connection, up to 150 A, terminal open RWO 10... Page 636



RWO 10-TC series: bolt connection, up to 150 A, terminal transparent cover RWO 10-TC... Page 637

Product range overview

Housing



Customer-specific housing solutions including connection technology Page 648



ME... component housings Space-saving design with many additional functions Page 652



ME MAX... component housings Large PCB surface yet compact dimensions Page 678



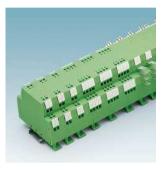
BC... installation component housings Housings for installation distributors according to DIN 43880 Page 694



EMG.... component housings
DIN rail-mountable housings in fine type scaling
Page 708



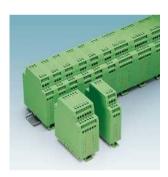
EG... component housings Receptacle housings for multiple PCB arrangements Page 718



UEG... component housings
Shell housing with variable connection technologies Page 722



UEGM... component housings Shell housing with variable connection technologies Page 724



UEGH... component housings Shell housings with two levels and variable connection technologies Page 726



ME PLC... component housings Multifunctional housings for intelligent electronics Page 732



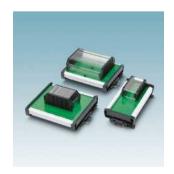
CM... component housings
Rugged housing range for rail-mountable
power electronics Page 736



EFG 45 component housings
Half-shell housing with front plates for complex electronics Page 738



UM-ALU... panel mounting bases
Rugged profile housings for the control cabinet
Page 742



UM-PRO... panel mounting basesProfile housings for flexible electronics development Page 748



UM... panel mounting bases Profile housings for individual PCB dimensions Page 754



HC-ALU...

Dust-tight and watertight handheld housings
Page 766

Connection of your choice

Whether you choose screw, spring or insulation displacement connection technology, Phoenix Contact always provides the highest level of quality.

You can choose the worldwide standard: the versatile screw connection. This connection technology combines a large contact surface with high contact force and is a completely maintenance-free, easy, and gentle conductor connection.

Alternatively, you can also choose modern spring connection technology. Whether spring-cage or leg spring, both concepts ensure a high level of clamping reliability. In particular, leg spring systems with their short wiring times enable quick and easy connection without additional tools based on the push-in principle.

Looking for even faster wiring? Then choose the insulation displacement connection (IDC) method. The sophisticated insulation displacement or pierce connection technology ensures optimum and durable contacting.

Irrespective of whether you require a connection for signal, data or power cables, the COMBICON range offers the right terminal block for every application.

Furthermore, Phoenix Contact clamping parts are designed so that all Class 5 copper conductor types can be clamped without pretreatment.

The following pages provide an overview of the existing connection technologies and their advantages.

Screw connection with tension sleeve



Screw connection with tension sleeve technology is the most widely used connection technology. Maximum contact force per contact surface can be achieved irrespective of the conductor cross section. Long-term stable connections can be achieved using special high-grade copper alloys, even under difficult conditions (e.g., in aggressive atmospheres). This ensures a gas-tight contact point and permanently low contact resistance. The integrated screw locking system (Reakdyn principle) prevents the loosening of the connection.

Customer benefits:

- The flat clamping part base ensures that even the thinnest connecting conductors are safely clamped (zero clamping)
- Transverse grooves in the current bar ensure that oxide film on the conductor is broken, and they provide a wrench-proof connection, which ensures good contact condition.

Areas of application:

 Applications that require high contact reliability in industrial environments

Push-in connection



The leg spring enables quick, tool-free connection of conductors. The solid conductor or a fine-strand conductor with ferrule is simply inserted into the push-in terminal point and pressed against the current bar by the leg spring.

It is only when fine-strand conductors without ferrules are connected and when this connection is released that it is necessary to actuate the opening lever, which is a feature of these terminal blocks.

Customer benefits:

- Fast connection by means of direct plug-in technology - "push-in"
- Easy operation, thanks to color-coded actuating lever
- No tools required
- Compact design

Areas of application:

Fast wiring in the field where intuitive operation is an advantage

Spring-cage connection

Push-in spring connection

Push-lock spring connection



Spring-cage technology enables easy connection without the need for special tools and conductor pretreatment. This spring is opened via the actuation shaft using a screwdriver and the conductor is inserted into the spring-cage via the separate conductor shaft. When the tool is removed, the spring then pulls the conductor against the power rail. This connection can be released in the same way.

Customer benefits:

- No conductor pretreatment required
- High level of contact reliability for industrial applications
- Universally used connection technology
- Time savings compared to screw connection

Areas of application:

Fast connection technology for electronic devices



The push-in spring combines the advantages of the leg spring with those of spring-cage technology, thereby enabling conductor connection without additional tools by means of direct plug-in technology. In addition, the fixed, predefined cage of the combined springs prevents the conductor from slipping sideways.

Therefore, the push-in spring enables, in particular, the tool-free connection of large conductor cross sections with moderate force.

Customer benefits:

- Fast connection by means of tool-free direct plug-in technology - "push-in"
- User-friendly, thanks to the protection against operating errors
- Large conductor cross sections can be connected with moderate force

Areas of application:

 Compact device connection of large conductor cross sections for fast wiring in the field.



The push-lock spring enables easy and tool-free conductor connection with or without ferrules by means of the "one-hand tilting lever principle".

Simply insert the solid or stranded conductor in the open terminal point and connect it reliably by actuating the tilting lever via the push-lock spring. Alternatively, conductors can also be inserted directly when the lever is closed by means of the push-in method.

Customer benefits:

- Quick and easy connection by means of the "one-hand tilting lever principle" or direct plug-in technology - "push-in"
- No conductor pretreatment required
- Intuitive operation, thanks to color-coded actuating lever
- Tool-free

Areas of application:

 Fast, easy-maintenance connection technology for the internal wiring of electronic devices and in the field.

Front screw connection



COMBICON front screw connection with pressure clip technology is a space-saving connection system from Phoenix Contact.

In the case of the COMBICON front connection, cable routing and actuation of the terminal block screw are on the same level

Reliable clamping of the conductor is ensured by the force-increasing swiveling movement of the angled pressure plate, which is supported in the robust clamping part pocket such that it can swing freely and presses the conductor against the power rail.

Customer benefits:

- Cable routing and actuation of the terminal block screw are on the same level
- Flush cover for installation on the front of devices

Areas of application:

 Particularly suitable for PCB racks and narrow device fronts

Screw connection with wire protector



COMBICON compact with wire protector technology is the PCB terminal block and plug-in connector range from Phoenix Contact for semi-industrial applications. Therefore, the same quality requirements are placed on the COMBICON compact product range as those for the industrial COMBICON product range.

However, the PCB connection technology of COMBICON compact has been greatly simplified in some areas and adapted to the conditions of building technology.

Customer benefits:

- Highly flexible wire protector
- Large rectangular clamping spaces
- Suitable for terminal connections up to a conductor cross section of 4 mm²

Areas of application:

Building technology, safety technology, telecommunications, etc.

Insulation displacement connection (IDC)



Reliable contacting using IDC (insulation displacement connection) connection technology is achieved by inserting the conductor into the specially designed cutting metal.

This method centers the conductor and cuts open the insulation in the cutting zone, thereby creating a reliable connection between the conductor and cutting metal. This connection technology is suitable for cables with PVC and PE insulation.

Eliminating cable preparation, such as stripping and the fitting of splicing protection, results in significant time savings of up to 60% compared to conventional connection technologies.

Customer benefits:

- Particularly time-saving connection technology
- Stripping and the fitting of splicing protection is not required
- No special tools required

Areas of application:

- Installation applications where a variety of conductors with similar cross sections must be connected in a short amount of time
- Field installation, since only minimal tools are needed for connection and conductor pretreatment is not required

Crimp connection

The crimp connection technology enables fast, cost-effective connection for cables that have to be assembled in large volumes.

The wire/crimp contact connection is established using crimping pliers or a crimping machine.

Taped crimp contacts are available for fully automated processing.

The crimp plugs in the various plug-in connector series can be used in combination with virtually all headers.

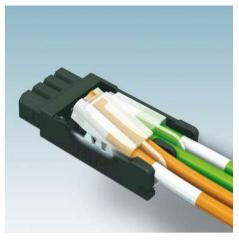
Customer benefits:

- Variable production run startup, thanks to fully or semi-automatic machine
- High tensile strength for the connection
- Low contact resistance
- Easy production monitoring
- High resistance to ambient conditions, vibration, and shock

Areas of application:

 Crimp connections are the ideal connection system for harsh ambient conditions, such as extreme temperature change, vibration and shock, and aggressive atmospheres

Pierce connection



Pierce connection is a reliable connection technology that does not require conductor pretreatment. Contact is made by inserting the conductors in the corresponding guide in the transparent cover of the plug-in connector. When the cover is closed, the pierce contacts pierce through the conductor insulation and so ensure a durable conductor connection.

Customer benefits:

- Time-saving connection technology
- Stripping and the fitting of ferrules is not required
- No special tools required
- Conductors can be easily released by opening the cover

Areas of application:

 Easy field installation, since conductor pretreatment and special tools are not required

Bolt connection



Bolt connection technology has been developed with a robust design and for the convenient wiring of ring cable lugs.

The ring cable lug is simply placed on the bolt and secured in place with the nut. The captive nut is connected to a hinged cover flap. This means that ring cable lugs can be connected quickly and easily.

The integrated screw locking in the form of a spring retainer guarantees safe use, even in applications which are subject to shock and vibration.

Customer benefits:

- Quick and easy ring cable lug wiring
- Conductors up to 150 mm² can be wired securely and with long-term stability
- Easy multi-conductor connection, up to four cable lugs can be connected per bolt

Areas of application:

 Applications which require ring cable lugs to be connected quickly and easily

COMBICON contact technology

Corrosion-resistant metal parts

We believe that high-quality terminal blocks must be designed to enable the consistent use of corrosion-resistant materials and surface systems. Naturally, Phoenix Contact uses high-grade corrosion-resistant copper alloys and high-grade Cr(VI)-free processed steel parts as standard for its PCB terminal blocks and plug-in connectors. This eliminates the possibility of electrolytic corrosion due to humidity and the risk of rusting and its consequences, i.e., unreliable electrical contacts and/or jammed screws.

Metallic contact surfaces are used to protect components against corrosion and environmental influences and to ensure their mechanical and electrical function. In order to achieve this, the layers must comply with the RoHS and WEEE EC Directives.

The selection of the contact system surface must balance the technical requirements, such as the current carrying capacity, contact resistance, resistance to environmental influences, with the cost-effectiveness of the solution.

contacting can be achieved at higher voltages and currents (> 20 mV; > 100 mA).

Tin-plated plug-in connections have a slightly higher contact force than gold-plated contact systems. This results in gas-tight contact zones with low contact resistance in combination with the relatively soft tin.

With regard to solder contacts, tin surfaces are particularly suitable for soldering applications due to the relatively low melting point of tin and its compatibility with tin-based solders. Phoenix Contact uses a nickel resistive layer to prevent the normal tendency of tin to initiate an intermetallic reaction with base materials such as brass or bronze. This ensures the long-term quality of the surface (soldering capability after storage) and also prevents whisker growth in the long term.

connectors, e.g., for high-current applications (COMBICON power). Silver-plated surfaces are also characterized by their low contact force and high insertion/withdrawal cycles.

Gold-plated contact system



Due to their noble electrochemical characteristics, gold layers are especially resistant to corrosion from a wide range of aggressive substances. This means that gold surfaces are not affected by oxidization, which allows low contact-normal forces to be applied to ensure electrical function. With these characteristics, gold surfaces are ideal for low voltages and currents (< 3 mA; < 20 mV) and durable surfaces with > 100 insertion/withdrawal cycles.

Tin-plated contact system



Tin layers are the most commonly used surfaces in contact systems for PCB connections from Phoenix Contact. They are used for the soldering and/or contact surface. For plug-in contacts, reliable

Silver-plated contact system



Due to their very high level of conductivity even at higher currents, silver layers are particularly suitable for use as contact surfaces. Phoenix Contact uses this surface system accordingly in plug-in

COMBICON direct plug-in technology

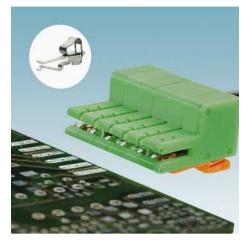
Plug-in contact directly with the PCB

Direct plug-in connectors in the ZEC 1, ZEC 1,5, and ZEC LPV product ranges make contact directly on the PCB without the need for additional pin strips. The plug-in connectors are simply inserted in the contact pads located on the edge of the 1.6 mm thick PCB. The pads have been integrated into the top and bottom of the PCB in the layout.

Direct plug-in connectors have a modular design. The plug-in connectors are therefore coded by adding corresponding segments with a fixed side panel at any position. A slot is created in the PCB according to this position. This reliably prevents mismatching and polarity reversal of the plug.

Two spring-loaded engagement catches lock the plug-in connectors in place on the PCB. The interlocks engage in the correspondingly positioned holes on the PCB. Direct plug-in connectors are divided into two types:

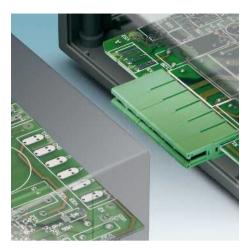
Conductor/PCB connection



The plug-in connectors in this product range are available with 3.5 mm, 5 mm, and 7.5 mm pitch (see page 365) for nominal voltages up to 400 V. Currents of up to 10 A can be transmitted via the solid contact springs.

The conductor connection uses spring-cage technology and is operated from the front by means of a screwdriver. The clamping space supports solid and stranded conductors up to 1.5 mm² (1 mm² with 3.5 mm pitch) with or without ferrules. The plugs are marked using SK 3,5/2,8, SK 5/3,8, and SK 7,5/3,8 self-adhesive marker cards (see page 796).

PCB/PCB connection



These plug-in connectors enable the direct connection of two PCBs. For example, if you want to connect a motor filter to a frequency converter, you just insert it. The external connection - the ZEC direct plug - then changes over to the add-on device. The device housing design must ensure that mechanical forces are absorbed.

Like the conductor/PCB connectors, PCB/PCB connectors are also available with 3.5 mm, 5 mm, and 7.5 mm pitch (see page 365) for nominal voltages up to 400 V and for currents up to 10 A.

A modular housing structure combined with direct plug-in technology provides maximum flexibility.

Mounting types

Wave soldering

Wave soldering is the traditional mounting method for all push-through components on the PCB.

The method is described in detail in standards; for lead-free processes, the process requirements have since been redefined.

The user therefore has the task of harmonizing their process with the varied requirements of the respective assembly and bringing it in line with standards.

Standards

The qualification profiles described in the standards refer to limit profiles. These limit profiles are used to qualify the component; the requirements specified here are therefore always more demanding than the real conditions experienced in practice. PCB connection elements must usually be processed in accordance with: DIN EN 61760-1: surface mounting technology

Standard method for the specification of surface mounting components (SMDs) International version:

IEC 61760-1: SURFACE MOUNTING TECHNOLOGY

Standard method for the specification of surface mounting components (SMDs)

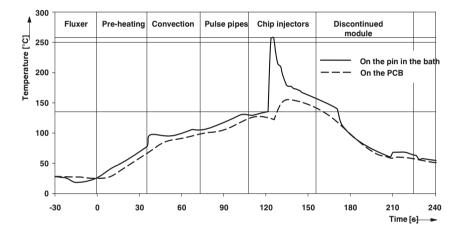
According to the profile, the maximum load on a solder pin is 260°C for 10 s in a double wave arrangement, however, it does not go into further detail regarding the geometrical conditions of the assembly. The heat input on the test object at a bath temperature of 260°C and 10 s depends on various factors, such as the thickness of the PCB, the number of layers, and the Cu content of the layers.

The area of application of the standards relates to SMD components; "push-through components" can therefore only be specified in accordance with these standards. However, the main advantage of these standards is that an adequate description of a wave soldering profile is provided, as used in standard modern soldering machines. This can also be used as a basis. In addition, PCB connection components must be soldered to SMD components, so that compliance with the requirements can be transferred.

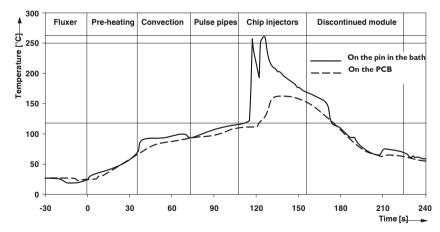
Practical implementation and recommendations

In practice, one would always try to solder at the lower limit of thermal loads. Solder bath temperatures are usually set to 265°C, however, for 95% of applications the maximum contact temperature and solder time are far below the values specified in the maximum profile above.

Below are two recommendations for practical profiles, which are used to qualify PCB connection elements from Phoenix Contact:



This profile is limited to a laminar wave at temperatures > 250°C for 3 seconds.



For this double wave, the maximum loads for both waves are > 250°C for 5 seconds in total.

The processability of lead-free wavesolderable components can be confirmed in accordance with the latest versions of standards DIN EN 61760-1 and IEC 61760-1. According to the profile, maximum soldering temperatures of

260°C for a maximum of 10 seconds apply. In exceptional cases, restricted temperatures and soldering times apply in the maximum peak range.

Through hole reflow soldering



The trend toward SMD components (surface mount devices) has continued in recent years.

Thanks to the use of cost-effective, fully automated processes with regard to solder paste printing, mounting components, and soldering, production on SMT lines represents a cost-effective and fast production process. This has directly resulted in a growing desire to integrate as many of the remaining wired components as possible into this production process.

This trend-setting technology is known as through hole reflow (THR) technology and describes a method for mounting wired components on the PCB. It involves the through hole mounting of components within the mounting process in conjunction with the reflow soldering process. This is a technology developed for fully automated processes in SMT production.

The aim of this technology is to integrate through hole components into the SMT process. Both SMD and THR components should be processed using the same process equipment, the same method, under the same conditions.

The "pin-in-paste" method

The "pin-in-paste" method takes the typical steps of an SMT production process and applies them to a PCB with throughcontacted holes. The functional principle of this procedure is now considered an acknowledged method. With the right component geometry, soldering material, and process parameters the results that can be achieved are very favorable.

Basic method of operation: sequence of the "pin-in-paste" method.

Requirements for THR components

The integration of THR components in the SMT process requires the appropriate selection of materials (plastics as well as metal parts/surfaces) as well as adaptation of the geometry (e.g., suction surfaces, clearance around the soldering spot). In addition, machine-capable packaging (tape/tray) is required. The key requirements are described below:

It should be possible for THR components to be picked up by the mounting head of a machine without the use of any special grippers or special pipettes.



PCB with



through-contacted hole





Template is positioned



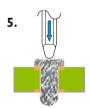


Solder paste fills the hole



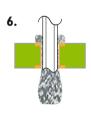
Component on the mounting head

Smooth and even suction areas are required for this. If these are not present or are too small, the component must be fitted with special pick-and-place pads.

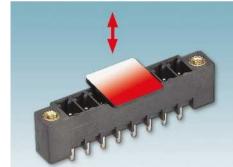


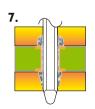
Apply solder paste

Mount component

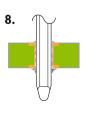


Pin presses the solder paste through the hole

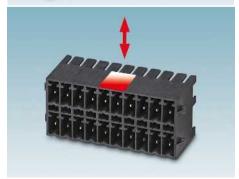




Reflow solder



Ready



Suction areas

Mounting types

Requirements for THR components

THR components must have sufficient clearance around the solder pins on the bottom of the component. In addition, stand-offs must be used.

These ensure that contact is prevented in the soldering process with the solder paste prior to soldering as well as between the solder meniscus and housing parts. In addition, the heat supply is not impeded during soldering.



Clearance around pins

The soldering method and the type of soldering process should also be taken into consideration when selecting the right solder pin lengths. In general, shorter pins are recommended in lead-free processes and especially in the vapor phase process due to the significant change in solder paste parameters. Paste loss is thereby prevented.

This means that pins that protrude only slightly from the base of the PCB must be used. Alternatively, very short pins should be used that no longer fully penetrate the PCB.

Pin length	(standards)	THR convection/ THR vapor phase		
1.4 mm		Optimum soldering. No projecting pin on 1.6 mm PCBs. Limited inspection.		
2.0 mm		Optimum soldering. 0.4 mm projecting pin on 1.6 mm PCB.		
2.6 mm		Optimum soldering. 1 mm projecting pin on 1.6 mm PCB.		

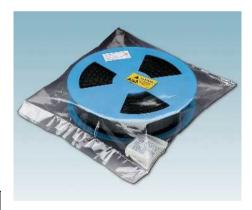
Qualification of THR components according to J-STD-020

The focus of qualification standard IPC/ JEDEC J-STD-020 (Moisture/Reflow Sensitivity Classification for Non-Hermetic Solid State Surface Mount Devices) is the basic moisture absorption in plastics, which under the influence of the temperature of the reflow process can ultimately destroy the component through blistering, delamination or deformation.

Levels are defined which determine the type of packaging (e.g., dry bag) and processing in atmospheres typical for SMT processes depending on the component geometry and indirectly on the plastic selected.

The aim of this testing is to determine a moisture sensitive level (MSL) for each component, which is linked to corresponding specifications for processing in the SMT process.

For lead-free reflow solderable components, Phoenix Contact confirms processability in accordance with IPC/ JEDEC J-STD 020 with specification of the relevant moisture sensitive levels for the product range.



Components in standard bag - MSL 1



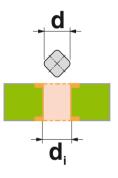
Components in dry bag - MSL 3

PCB layout

The use of THR technology requires modifications to the PCB layout. Choosing the right hole diameter ensures the return flow of the solder in the reflow process and that machine mounting is supported. If a suitable hole size is used, production tolerances are compensated and reliable mounting is possible.

As a rule of thumb, the following applies when determining a suitable hole diameter:

$$d_i = d + 0.3 \text{ mm}$$

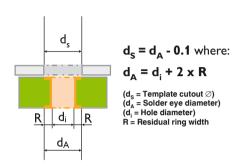


d = Diagonal of the square pin usedd = Inside diameter of hole

With regard to dimensioning the residual ring, the same requirements as for wave-soldered pads largely apply. Taking into consideration the air and creepage distances and the clearance below the component around the pin, the ring width should be between 0.2 and 0.5 mm. The potentially larger volume of paste on wider rings can have a positive effect on the soldering quality (meniscus formation).

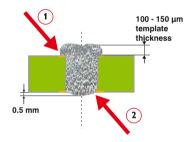
Solder paste printing

In the printing process, the solder paste is applied simultaneously for SMD components (surface mounting) and THR components (through hole mounting) to the pads/residual rings using a template. Templates with a thickness of $100 - 150 \, \mu m$ are currently used. The cutout in the template is usually calculated according to the following diagram:



The overprinting of solder paste on the solder resist is thereby avoided.

Under ideal conditions, paste printing yields the following results:



No overprinting required (1)
The solder paste is intentionally pushed through by up to
0.5 mm below the PCB (2)

Solder paste printing determines the appearance and quality of the soldering spot. When conditions are not ideal, there are various ways of controlling the quantity of solder paste:

- Spreader angle and spreader speed control the filling degree and amount of solder pushed through
- The paste volume can be increased by means of overprint over the residual ring
- Ridges in the template holes reduce the filling degree and amount of solder pushed through

Mounting

There are significant cost advantages associated with integrating THR components in automated mounting with reflow processes.

However, due to their size and weight, THR components can usually only be mounted using pick and place machines. On the one hand this reduces mounting speeds (no loss of components) and on the other hand, a height of 25 - 40 mm is required for mounting components. Components are therefore picked up using standard vacuum pipettes.

The component is picked up at defined positions, it is then measured via the camera, and then placed on the PCB.



Component picked from the tape



Camera recording for component measurement



Component placed on the PCB

Mounting

Tape-on-reel packing is the most common way of supplying SMT and THR components.

For THR components, reels with the usual standard widths of 24/32/44/56/72 and 88 mm are used. Due to the component size, especially in the case of tall components, it must be ensured that the radius of the feeder is sufficient and there is enough space for input and output of the tape in the machine.



Tape-on-reel packing



Component too large for feeder system



Special type of pin strip in a tube



High-volume THR component in a tray

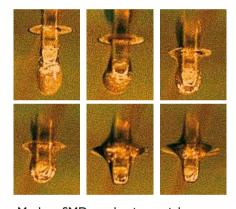
Mounting types

Reflow soldering process

After mounting the components, the solder in the form of a paste drop (matchstick head) is ready at the pin tip below the hole.



In the subsequent soldering process, the paste melts when the liquid temperature is reached and passes through the hole along the pin flank with the help of the capillary effect. In the subsequent cooling phase, part of the solder sinks below once again and forms the characteristic solder globule.



Modern SMD production mainly uses convection ovens with modern heat management with adjustable heating from above and below.

With regard to the THR technology, there are just a few model-specific limitations.

As a result vapor phase soldering ovens have been further developed in recent years. With its higher production bandwidth, this oven technology is gaining importance, thanks to its "inline" production. One particular point should be noted when using THR components: the condensate that settles on the paste drop can make it run. This can be counteracted by selecting a shorter solder pin length.

Standards and soldering profile

DIN EN 61760-3 applies for THR components. The reflow process is also described with temperature profiles according to standard DIN EN 61760-1 or also according to IEC 60058-2-58.

Standard IPC/JEDEC J-STD 20, previously described in the context of qualification, also contains corresponding profiles, which can be used as the basis for the relevant process profile.

Since the heat management of each individual board depends on a large number of factors (e.g., size and thickness of the board, component size, etc.), a direct profile cannot be specified for the use of THR components. Therefore recommendations can only be made based on the above standard profiles.

In practice, one would always try to solder at the lower limit of thermal loads. For widely used SnAgCu soldering alloys, common peak temperatures are between 235°C and 240°C.

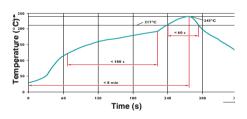
Below is a recommended practical profile (component upper side):

Inspection

Standard IPC-A-610 can be used for the inspection of THR soldering spots. The above parameters allow implementation of Class 3 soldering spots - products for maximum reliability. Through-contacting fill as well as the wetting of the solder globule surrounding are assessed:

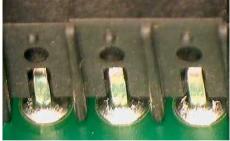


Filling degree of at least 75% achieved. Small solder globules form on both sides.



Lead-free reflow soldering profile (SnAgCu)

For lead-free reflow solderable components, Phoenix Contact confirms processability in accordance with IPC/ JEDEC J-STD 020 with specification of the relevant moisture sensitive levels for the product range. In some cases, reduced maximum permissible "peak body temperature" is specified.



Wetting of surrounding (at least 75%) on solder destination and solder source side both 360° or 100% (typical for THR process).

THR soldering spots have a shape that is very similar to that of soldering spots created during wave or selective soldering. The main difference is the shape of the solder globule. Since less solder is available for the process, the solder globules that are formed are smaller or not fully developed.

This special appearance must be discussed with the Quality Assurance department or taken into account when using automatic inspection systems (AOI).

Mounting types

COMBICON press-in technology

Solder-free PCB connection

This mounting type, which does not involve soldering, is characterized by low press-in and high holding forces. It is used in applications where PCBs must not be subjected to thermal loads or where ready-soldered SMD components are not permitted on the PCB. The elastic press-in zone ensures reliable contacting and low contact resistance.

Headers in the EMC and EMSTB product ranges are equipped with the ERNIPRESS press-in technology contact system. They are suitable for PCBs with a thickness of 1.5 mm or more and meet the applicable requirements of standard DIN EN 60352-5: 1995-9. According to this standard, a special through-contacted hole is required, whose structure depends on the design type used (see pages 222 and 310).

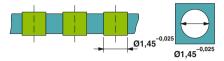


In the simplest case, the press-in method is implemented using a toggle press; pneumatic presses are used for automated mounting methods. The horizontal headers can be pressed into the PCB using a flat press-in stamp. Contact-supporting tools are not required. Contact-supporting lower stamps are available for vertical headers. Stamp sets consisting of an upper and lower stamp are available on request.

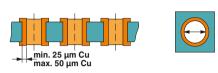
The high quality and reliability of press-in plug-in connectors are complemented by their easy handling and user-friendly repair (just press out).

Structure of the metal-plated hole for EMC 1,5/...-G(F)-..., EMCV 1,5/...-G(F)-...

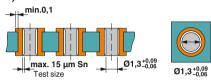
1) Hole in the base material, mostly epoxy glass fabric FR4 or EP-GC



2) Hole with Cu sleeve

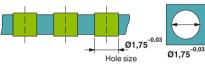


Through-contacted hole with Sn

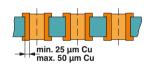


Structure of the metal-plated hole for EMSTB(A) 2,5/...-G(F)-... and EMSTBV(A) 2,5/...-G(F)-...

) Hole in the base material, mostly epoxy glass fabric FR4 or EP-GC

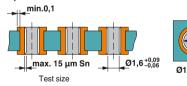


2) Hole with Cu sleeve



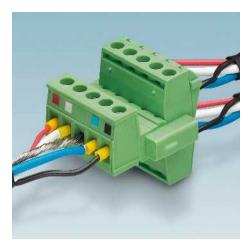


3) Through-contacted hole with Sn min 0.1



COMBICON TWIN plugs

Double conductor connection



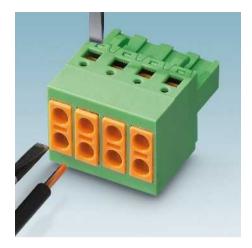
TWIN plug-in connector types are characterized by the connection of two conductors on one connection terminal. Depending on the size, TWIN plugs are used to loop through the signals or to distribute potential or power. A key feature is that the function of the subsequent devices is retained when removing individual plugs in a device series.

PTDA 1,5 TWIN plugs with spring connection, 3.5 or 5.0 mm pitch



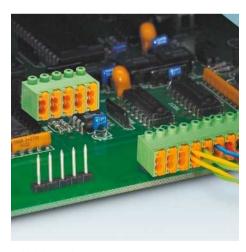
- With push-in spring connection
- Symmetrical, rounded design
- 45° angled connection direction
- Contacting on pin strips with 1 mm Ø or
 1.3 mm Ø pins
- Conductor cross section: up to 1.5 or 2.5 mm²
- Rated current: 8 or 13.5 A
- Rated voltage: 240 or 400 V
- Open the clamping space via the release button using a screwdriver

TVFKC 1,5 TWIN plugs with spring connection, 5.0 mm pitch



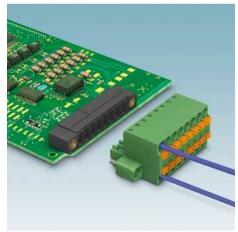
- With push-in spring connection
- Front conductor connection
- Conductor cross section: up to 1.5 mm²
- Rated current: 10 A
- Rated voltage: 320 V
- Low design height of just 15 mm
- Open the clamping space via the orange release button or the actuation shaft on the side using a screwdriver

FK-MPT 0,5 TWIN plugs with spring connection, 3.5 mm pitch



- With push-in spring connection
- Front conductor connection
- Contacting on pin strips with 1 mm Ø pins
- For solid conductors
- Conductor cross section: up to 0.5 mm²
- Rated current: 4 A
- Rated voltage: 250 V
- Open the clamping space via the orange release button using a screwdriver

TFMC 1,5 TWIN plugs with spring connection, 3.5 mm pitch



- With push-in spring connection
- Front conductor connection
- Conductor cross section: up to 1.5 mm²
- Rated current: 8 A
- Rated voltage: 160 V
- With touch connection for voltage testing using a 1 mm Ø test pin
- Open the clamping space via the orange spring lever using a screwdriver

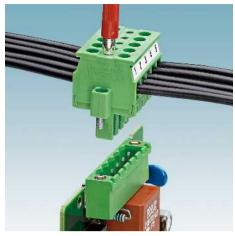
COMBICON TWIN plugs

QC 1-BUS TWIN plugs with displacement connection, 5.0 mm pitch



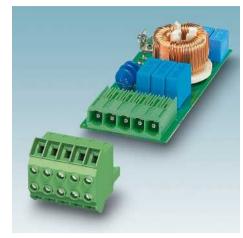
- With displacement connection
- No conductor pretreatment required
- Conductor cross section: up to 1 mm²
- Rated current: 10 A
- Rated voltage: 630 V
- Conductor connection: insert insulated conductor in the orange slide and press down using a screwdriver
- The conductor can also be released using a screwdriver

TVMSTB 2,5 TWIN plugs with screw connection, 5.08 mm pitch



- With screw connection
- Conductor connection perpendicular to the plug-in direction
- Conductor cross section: up to 2.5 mm²
- Rated current: 12 A
- Rated voltage: 400 V
- With test connection for 2.3 mm \varnothing test plugs

TPC 16 TWIN plugs with screw connection, 10.16 mm pitch



- With screw connection
- Compact design height of just 51.4 mm
- Conductor cross section: up to 16 mm²
- Rated current: 76 A
- Rated voltage: 1000 V

TFKC 2,5 TWIN plugs with spring connection, 5.08 mm pitch



- With push-in spring-cage connection
- Conductor cross section: up to 2.5 \mbox{mm}^{2}
- Rated current: 12 A
- Rated voltage: 320 V
- With test connection for 2.3 mm Ø test plugs
- Version for DeviceNet[™] with gold-plated contact system
- Marker strips available for DeviceNet[™] color coding
- Open the clamping space via the orange spring lever using a screwdriver

TMSTBP 2,5 TWIN plugs with screw connection, 5.08 mm pitch



- With screw connection
- Conductor connection parallel to the plug-in direction
- Conductor cross section: up to 2.5 mm²
- Rated current: 12 A
- Rated voltage: 320 V
- With test connection for 2.3 mm Ø test plugs
- Version for DeviceNet[™] with gold-plated contact system
- Marker strips available for DeviceNet[™] color coding

TSPC 5 TWIN plugs with spring connection, 7.62 mm pitch



- With push-in spring connection
- Front conductor connection
- Conductor cross section: up to 6 mm²
- Rated current: 41 A
- Rated voltage: 1000 V
- Open the clamping space via the actuation shaft using a screwdriver

Device connection technology for signals, data, and power from Phoenix Contact

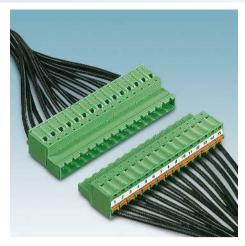
Inverted contact systems

Numerous possible combinations

Inverted plug-in connector systems are mainly used wherever shock protection is required for the plug-in connector on the PCB. Compared to the standard system, a feature of inverted contact systems is the swapped position of the socket and pin contacts. The IMC 1,5, IC 2,5, and FKIC 2,5 as well as the GIC 2,5, IPC 5, and IPC 16 inverted plug-in connector ranges combine screw or spring-cage connection in the plug with socket contacts that can be soldered in the corresponding headers. The rated voltages for these systems are:

- IMC 1,5 plug-in connectors: 160 V
- IC 2,5 or FKIC 2,5 plug-in connectors: 250 V
- GIC 2,5 plug-in connectors: 400 V
- IPC 5 plug-in connectors: 1000 V
- IPC 16 plug-in connectors: 1000 V

Combination with the corresponding counterparts of the MC/FK-MCP 1,5 or MSTB 2,5/FKC 2,5 or GMSTB 2,5/GFKC 2,5 or PC 5/IPC 5, PC 16/IPC 16 plug-in systems offers a wide range of possible applications. The IC plug is used as an example in the following combinations. The FKIC spring connection version can be used as an alternative. Similar combinations are possible for IMC, GIC, and IPC plug-in connectors.



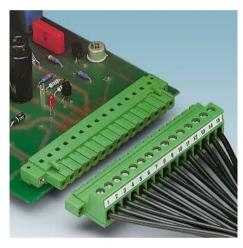
2. Two plugs as free-hanging connection.



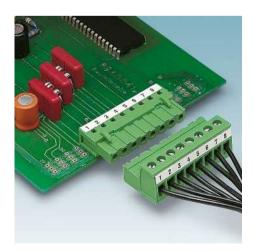
5. IC 2,5/... STGF with threaded flange for vibration-resistant free-hanging connection with MSTB plugs with screw flange.



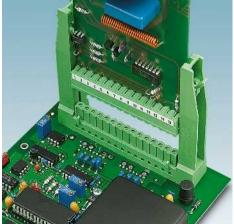
3. IC 2,5 versions and MSTB 2,5 headers to create test, indicator, convertor or branch adapters.



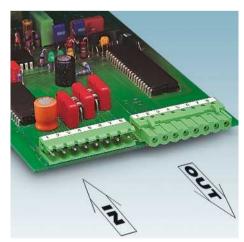
6. IC 2,5/... STF with screw flange for vibration-resistant connection with IC 2,5/... GF inverted headers.



1. IC 2,5 plug and IC 2,5 header as shock-proof PCB output.



4. ICV 2,5 versions and MSTB 2,5 headers to create primary/secondary PCB connections. Here, FLRP lateral guide rails are used to stabilize the secondary PCB.



7. MSTB 2,5 and IC(V) 2,5 headers for the clear separation of inputs and (shock-proof) outputs.

Flange systems/insertion and withdrawal forces

Insertion and withdrawal forces

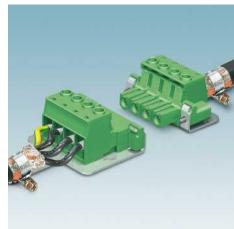
The insertion and withdrawal forces of a plug-in connector vary from 4 N to 8 N per position depending on the contact system and contact surface. In most applications, these insertion forces predominate over the pull-out forces. As far as the requirements are concerned, the pull-out forces defined by the weight of the connecting conductor and the plug-in connector itself can be too low for plug-in connectors with a small number of positions. It is recommended that plug versions with mounting flange for the header are used to prevent the connection being released too easily. The installation scenario often plays an important role here: the use of plug versions that support connection to the header is recommended if relatively long, non-supported connecting cables are used or when the device is used under harsh operating conditions and in the event of vibration.

STF/GF screw flange



As standard, the plugs are fixed to headers using screw locking. These versions (plugs with the designation -STF, headers with the designation -GF) are standard in all performance categories. Here, the screw is located in the plug and the corresponding thread in the base strip.

Threaded flange



A screw flange version consisting of all inverted plugs is also available. In this case, the flange has a thread instead of a screw. Two plugs of a cable/cable connection can therefore be screwed against one another. This prevents accidental release of the connection.

RF/RN self-locking flange



Applications that only require a vibrationresistant connection can use the selflocking flange instead of the screw flange. It locks automatically without having to use a tool. It is identified by RF (self-locking flange) in the plug designation and RN (engagement nose) in the designation for headers or inverted plugs.

Click and Lock



For the PC 5 range, the "Click and Lock" system is available as an alternative to the screw or threaded flange. This enables tool-free, automatic locking of the plug (-STCL) and base strip and of two plugs. This locking system is reliable even in the event of strong vibration and also saves more space than the screw locking flange.

Lock & Release



The "Lock & Release" mounting system combines a locking mechanism with a release mechanism. Both actuating levers on the plug lock when the plug is inserted in the header. Releasing the levers then automatically ejects the plug from the header.

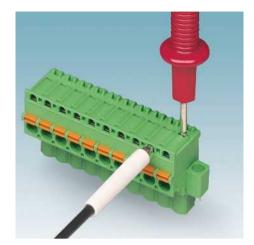
Device connection technology for signals, data, and power from Phoenix Contact

Mounting flanges/test connections

Mounting flanges



Standard test plugs are used for pick-off, and can be ordered from the COMBICON range of accessories (see page 832).



PCB terminal blocks for high currents in the range from 76 A to 125 A have mounting flanges which are used to connect the PCB terminal blocks to the PCB by means of a screw connection. It is also recommended that the conductors are supported.

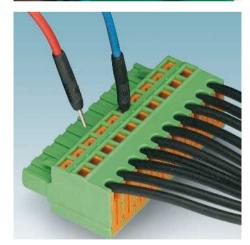


Quick and easy testing using integrated test connections



Naturally, all standard measuring devices can be used for reliable testing.

The integrated test connection designed to accommodate a 2.3 mm Ø test plug enables you to test each individual contact point. Special test plugs are available for test connections smaller than 1 mm Ø.



The COMBICON range from Phoenix Contact offers a variety of products with integrated test connections for service work and locating errors.

Measurements can therefore be taken easily without having to remove the wiring or other accessories.

Needless to say these test connections are also suitable for the continuous monitoring of process-relevant parameters.

Strain relief/release aids/bridges



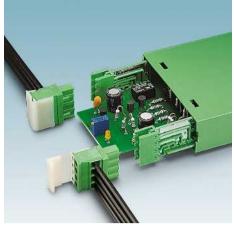
Strain relief

Strain relief elements have proven themselves, e.g., in high-position applications or applications with long cable outlets. Here, the mounting surface of the plug supports the connected cable effectively, thereby relieving the plug of the conductor pull-out force.

In the COMBICON control product range, additional versions are available with strain relief (e.g., the MSTB 2,5 range) or strain relief must be provided as an accessory by snapping it onto the standard plug (e.g., FKC 2,5 range). Strain relief is also available for the MC 1,5 range.

Shielding versions are available for the plugs in the COMBICON power product range. These too can also be used as cable strain relief. Four positions are available as standard, but any number of positions can be provided on request.

Strain can also be relieved using the cable housing for MC, MSTB, and PC 4 plugs. This also protects the plug from dust.



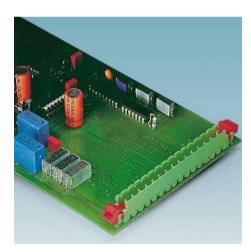
STEH/GEH release aids

Versions with extraction aid (STEH) are available for vertical MVSTBR/MVSTBW 2,5 plugs. The white accessory latch can be folded back after insertion and thereby additionally serves as shock protection for the screw.

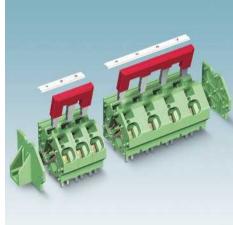


Bridges

Two methods are available for potential distribution or looping through the ground conductor in PCB terminal blocks. The easiest solution is a separate bridge fixed directly in the connection area, if necessary, with a supply conductor. Internally bridged versions are available in the standard MKDS product range. The entire clamping space is also available here.



The release aid (GEH) is available as a special solution for vertical MSTBV 2,5 headers. An actuator can be used to easily release all plugs compatible with this base strip from the header.



Fully insulated plug-in bridges are also available for ZFKDS 4 and ZFKDS 10 PCB terminal blocks. They enable individual electrical connection of the terminal blocks. The bridges, which are available with various numbers of positions, are inserted in the separate bridge shafts using minimal force.



Device connection technology for signals, data, and power from Phoenix Contact

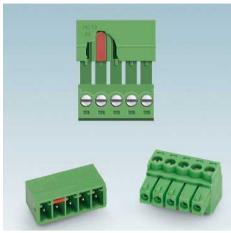
Coding elements

Coding systems without loss of positions



Coding with CP-MSTB and CR-MSTB

Function: coding prevents the same type of plugs from being mixed up. To this end, the plugs are mounted with corresponding coding profiles (CP-MSTB) and the headers with corresponding coding sections (CR-MSTB). If the coding section and the coding profile are mounted on the same position, the plug cannot be plugged in. The image shows coding that can be plugged in.



Coding with CP-MC 0,5 or CP-MSTB

Function: headers in the MC 0,5 and MC 1,5 product ranges are mounted with coding profiles (CP-MC 0,5 or CP-MSTB). The corresponding coding tabs are then cut on the plug side. If the coding profile is mounted on the same position where the coding tab has been cut, the combination can be plugged in (see image).



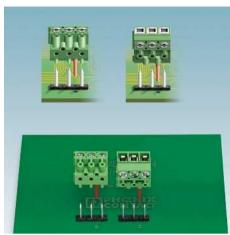
Coding with CP-PC RD or CP-HC

Function: headers and plugs in product series PC 4, PC 5, and PC 16 (CP-PC RD), and product series PC 35 (CP-HC) are mounted with coding profiles. Only correspondingly coded base strips and plugs can be plugged in. If the coding profile on the housing and on the plug are mounted on the same position, the plug cannot be plugged in. The image shows coding that can be plugged in.



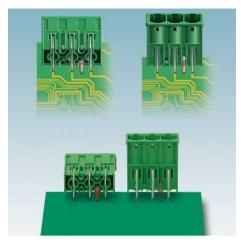
Coding with CP-PT 2,5

Function: the plug is mounted with the CP-PT 2,5 coding profile irrespective of whether it is used vertically or horizontally. The coding ribs in the base strip then determine whether the plug can be plugged in. The corresponding positions of the coding ribs are formed during the manufacturing process. This ensures polarity protection among plugs of the same type. The combination shown in the image cannot be plugged in as the coding profile works against a coding rib in this case.



Coding with CP-PT 1,5

Function: the plug is mounted accordingly with the pin (CP-PT 1,5) depending on whether it is used horizontally or vertically. This pin then enters the hole provided in the layout of the PCB when plugged into the correct positions. Incorrect connection is therefore prevented.



Coding with CS-IPC 16/6

Function: coding of PC 6-16 and IPC 16 headers before being mounted on the PCB. PC 6-16 and IPC 16 headers can be fitted with the CS-IPC 16/6 coding pin, whether used horizontally or vertically. The unused end of the coding pin can now be removed using a diagonal cutter. When mounting the PCB, the remaining part of the coding pin then enters the hole provided in the PCB. This provides antirotation protection on the PCB, particularly when mounting manually.

COMBICON Ex

COMBICON PCB terminal blocks and plug-in connectors for use in potentially explosive areas



If systems are installed in potentially explosive areas, a large number of safety precautions must be taken. The requirements placed on electrical equipment for use in areas with a danger of gas explosions are described in the IEC/EN 60079 series of standards.

Increased safety "Ex e"

The specific requirements placed on items of equipment with increased safety "Ex e" protection type are provided in Part 7 of the IEC 60079 series of standards. Compared to normal applications, these include stricter requirements for air and creepage distances, the heating response, resistance to aging, and the insulation capability of insulation materials.

The conformance of COMBICON Ex PCB terminal blocks and plug-in connectors with the requirements for increased safety is confirmed by EC-type examination certificates and markings for directives and standards. These documents and installation notes containing important information regarding the correct use of PCB terminal blocks and plug-in connectors in areas with increased safety can be found on the Internet at www.phoenixcontact.com.

General information:

For product-specific information, please refer to the installation notes.

 PCB terminal blocks and plug-in connectors are designed for installation in suitable housing. When used in environments containing potentially explosive gases or dust, this housing must meet the applicable requirements of IEC 60079-0, IEC 60079-3, and IEC 60079-7 or IEC 61241.

The PCB terminal blocks and plug-in connectors must be installed in a wiring space or housing so that they are secured against rotating or accidental loosening.

- For information on additional fixings, please refer to the installation notes.
- When connecting conductors, make sure that the wire insulation extends right up to the terminal point. Following installation of the PCB terminal blocks and plug-in connectors in a wiring space with increased safety "Ex e" protection type, the air and creepage distances must meet the requirements of IEC 60079-7. These requirements apply in particular to the mixed installation of different components and when using additional accessories.
- When using cross sections smaller than the rated cross section specified in the EC-type examination certificate, the corresponding lower current value must be specified in the EC-type examination certificate for the device.
- For some PCB terminal blocks, the specified voltage can be increased using pitch spacers. The voltages resulting from the use of one or more pitch spacers can be found in the EC-type examination certificate. We will be happy to confirm which other combinations are supported.



Intrinsic safety "Ex i"

For intrinsic safety "i" protection type according to IEC 60079-11, both PCB terminal blocks and plug-in connectors with Ex approval and standard products can be used. They are simply used as electrical equipment and do not require any particular certification or markings. Make sure that the air and creepage distances required in connection with intrinsically safe circuits are observed. The connection points of these circuits must be clearly marked. If marking is by means of color-coding, the connection points must be light blue.

Marking

The explosion-protected equipment must be marked in such a way as to guarantee that it is used correctly in accordance with its safety characteristics.

Note: in accordance with the specifications of the ATEX Directive, components such as PCB terminal blocks and plug-in connectors are excluded from CE marking.

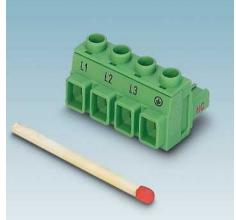
Cross-reference li CLASSIC COMBI connectors with E	CON plug-in		Books Danks	ponthenant	Marajaratalahaya	THE PROPERTY AND THE PARTY AND
		CLASSIC COMBICON header	and a standard of	62 	elbitatatata)	W
	Туре		MSTB[V]GF EX	MSTB[V]AGRN EX	IC[V]GF EX	GMSTB[V]GF EX
			Page 369	Page 375	Page 377	Page 375
CLASSIC COMBICON plug		Pitch in mm	5.08	5.08	5.08	7.62
*********	MSTBSTF EX Page 369	5.08	•			
TATER AND THE PROPERTY OF THE PERSON OF THE	MVSTB[R][W] Page 369	5.08	•			
	ICSTF EX Page 373	5.08			•	
950,000,000 s	FKCSTF EX Page 371	5.08	•			
20000000000000000000000000000000000000	FKCSTRF EX Page 371	5.08		•		
Constant Constant	FKICSTF EX Page 373	5.08			•	
anning.	GMSTBSTF EX Page 379	7.62				•
	GMVSTB[R][W]STF EX Page 379	7.62				•
**********	GFKCSTF EX Page 381	7.62				•

Note:

The plug-in connectors only have approval for use in potentially explosive areas with increased safety Ex e in the combination shown here.

Technical information regarding the PCB connection





International approvals, such as UL/CUL consistently raise issues during device development. As a responsible manufacturer of device connection technology, we develop and test our products according to the latest safety standards in such a way that our customers do not encounter any problems with international approval for their devices.

COMBICON PCB terminal blocks and plug-in connectors are recognized components according to UL 1059. In the end application, these components undergo final evaluation and are approved together with the device according to UL 508 (C) or UL 840.

The stringent requirements of UL 1059 thereby ensure that a plug-in connector for 600 V UL in Use Group C observes a clearance of 9.5 mm and a creepage distance of 12.7 mm with a pitch of 7.62 mm. In the end application, these components undergo final evaluation and are approved together with the device according to UL 508 (C) or UL 840.

UL Online Certification Directory

Official recognition of the terminal blocks and plug-in connectors is confirmed by a UL report. This contains important information on the product, such as connection data (ratings), air and creepage distances, materials, dimensions, and application conditions (conditions of acceptability). Together with the product names, the connection data is documented in "yellow cards" or the UL Online Certification Directory as proof of approval. UL has published a website at www.ul.com/database where this data and corresponding explanations are generally available.



Phoenix Contact housing production is UL-certified

The plastics used in Phoenix Contact housing all have their own approvals. Our plastics production is recognized by Underwriters Laboratories as "UL Recognized Molder A1913" (File E240868) and is regularly audited.

The UL logo including ID and the plastic material code (e.g., P01) are also printed on the packing label of the electronics housing. Both during device approval and inspection of your electronics production, for the majority of product ranges it is very easy to verify the housing plastics' conformance with UL 746D using the material code on the label.

Product and device standards



UL 1059 "Terminal blocks"

In order that Phoenix Contact products can be used in industrial applications without restriction, they are generally tested and recognized according to UL 1059. The following table lists the air and creepage distances required for the components. The Use Group refers to the subsequent area of application of the termination device.

Device standards

UL 508 "Industrial control equipment" Terminal blocks, which are recognized according to UL 1059, meet the requirements of UL 508 for field wiring terminal blocks and can therefore be used in accordance with this standard without restriction. UL 508 also permits alternative rating in accordance with UL 840.

UL 508 C "Power conversion equipment"

This UL standard applies specifically to power electronics (motor controllers, frequency inverters, etc.). The requirements for field wiring terminal blocks are similar to the specifications of UL 508. Alternative rating in accordance with UL 840 is also possible here.

UL 840 "Insulation coordination including clearances and creepage distances for electrical equipment"

This standard describes an alternative procedure for designing the insulation of end products for defined ambient conditions (surge voltage category, pollution degree, material index), provided that this is permitted by the device standard.

Use		Definition	Max. nominal voltage	Required distances (mm)	
Group		Beillition	(V)	Clearance	Creepage distance
Α	01 ****	Operating elements, consoles, etc.	150 300 600	12.7 19.1 25.4	19.1 31.8 50.8
В		Standard devices, including office and electronic data processing equipment, etc.	150 300 600	1.6 2.4 9.5	1.6 2.4 12.7
С		Industrial applications, without restrictions	150 300 600	3.2 6.4 9.5	6.4 9.5 12.7
D		Industrial applications, operating equipment with limited rating	300 600	1.6 4.8	3.2 9.5

Alternative dimensioning of air and creepage distances according to UL 840

In accordance with UL 840 (3rd edition 2005), the following procedures are carried out to determine air and creepage distances:

1. Equivalent clearances

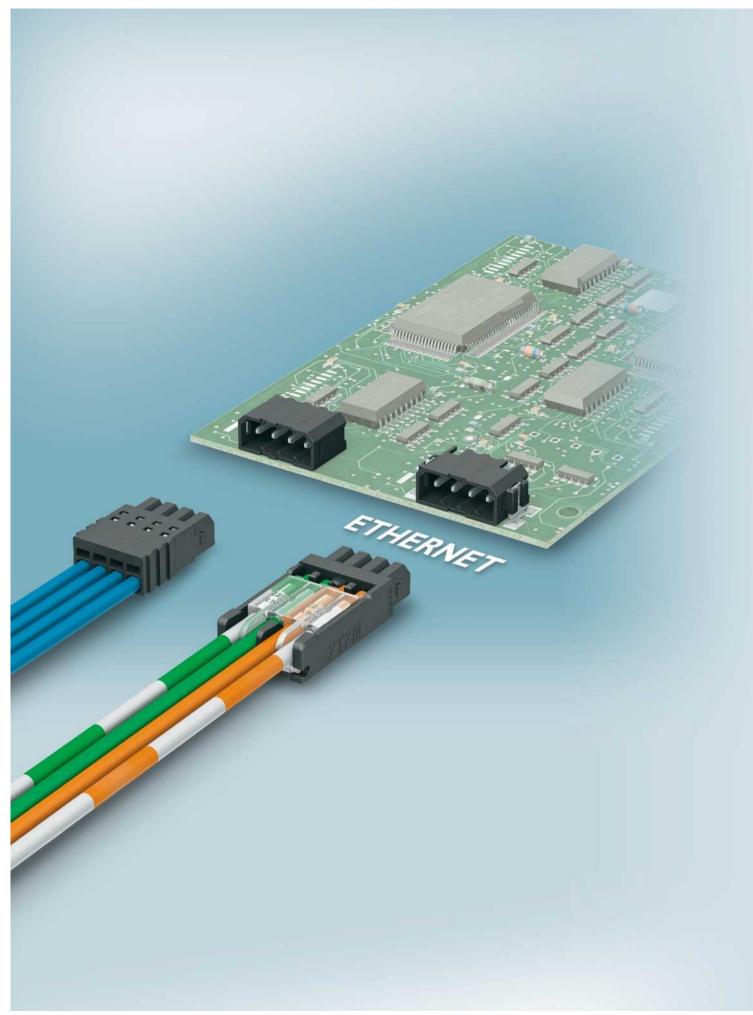
Not meeting the clearance required in the device standard is permitted if the termination device has passed one of the surge voltage tests described in UL 840 (Table 7.1) without sparkover. The amount of surge voltage depends on the clearance required in the product standard.

2. Clearances for limited surge voltages

If it is ensured that surge voltages occurring during operation do not exceed a specified maximum value, the required clearances for the known pollution degree can also be determined in accordance with Table 8.1.

3. Creepage distances

The minimum requirements described in Table 9.1 for general creepage distances and those specifically for PCBs must be met, taking into consideration the operating voltage, pollution degree, and creep resistance of the material.



Electronic components are becoming increasingly compact and are mapping more and more functions. In order to follow this trend, PCB connection technology has to be adapted to the small size of other electronic components. These products, which are characterized by their extremely small size, are all available in the new COMBICON HD series.

COMBICON HD consists of PCB terminal blocks and plug-in connectors with 2.0, 2.5, and 2.54 mm pitch.

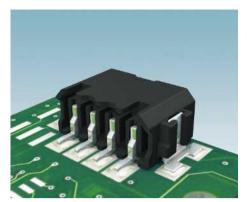
The PCB terminal blocks are designed for SMT and reflow soldering processes and have a push-in spring-cage connection or an insulation displacement connection.

The plug-in connectors are available with three connection technologies: push-in spring-cage, pierce, and insulation displacement technology. The corresponding headers can be connected to the PCB using wave soldering, reflow soldering or SMT processes.

General	46
COMBICON HD cross-reference list	48
PCB terminal blocks and plugs with 2.5 mm pitch	51
THR spring-cage PCB terminal blocks up to 0.75 mm²	51
SMD spring-cage PCB terminal blocks up to 0.75 mm²	53
Plugs with pierce contact up to 0.34 mm² and spring-cage connection up to 0.75 mm²	55
CAT5 plug with fast connection	57
SMT and THR base strips for plugs with pierce contact or spring- cage connection	59
Inverted SMT and THR base strips	61
PCB terminal blocks with insulation displacement connection with 2.5 mm pitch	63
Connection cross section up to 0.34 mm ²	63
Plugs with displacement connection, 2.0 to 2.54 mm pitch	65
Plugs with displacement connection up to 0.5 mm²	65
Single and four-row headers for wave soldering and SMD processes	67
Bus plug-in connectors with connection cross section up to 0.75 mm ²	69

COMBICON High Density general

Reflow and **SMT** soldering processes



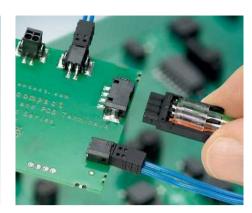
With its new COMBICON HD series. Phoenix Contact offers products that are specially tailored to THR and SMT soldering processes. The base strips and PCB terminal blocks in the COMBICON HD series are made from high-temperature-resistant material and are packed in taped form as standard. For terminal blocks with horizontal conductor connection, the suction area is located directly on the top of the housing. Versions with vertical conductor connection are equipped with a suction pad to enable automatic mounting.

Possible applications



Due to their size, the products in the COMBICON HD series are ideal for all applications where space is limited. Since these terminal blocks can be mounted with other SMD components in a single step, further cost savings are made through additional selective soldering processes. Thanks to the SMT technology, the terminal blocks are particularly suitable for metal core PCBs, such as those used in LED lighting technology. The conventional field of application for CIOC miniature plug-in connectors is the networking of sensors and actuators with the controller. With the aid of link plugs, data can be transmitted safely to the PLC or to the field via bus cables.

Quick and easy wiring



All products in the COMBICON HD series can be connected quickly and easily by means of push-in spring-cage, insulation displacement or pierce technology. The user therefore saves a lot of time during wiring.

COMBICON HD PCB terminal blocks and plug-in connectors with spring-cage connection support the tool-free connection of solid conductors and conductors with ferrules. A screwdriver can be used to open the clamping space via the integrated release shaft.

Plug-in connector versions with pierce connection do not require conductor pretreatment. When the cover is closed, the pierce metal penetrates the conductor insulation and thereby makes contact.

Basics of data transmission

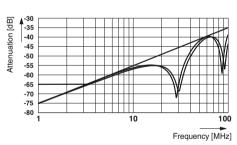
Physical principles must be observed for the transmission of data via copper cables. It is not possible to transmit a signal from one end of a cable to the other without any loss. The dependence on various transmission parameters, such as capacitive and inductive influences and contact resistance, is too great. In order to classify their level of performance, they are split into various categories (CAT1 to CAT7). By determining the near end crosstalk attenuation and reflection loss it is possible to check a cable or plug-in connector's level of performance during data transmission.

Near end crosstalk (NEXT) reveals how greatly the signals of two adjacent wire pairs influence one another. If various signals are transmitted via different twisted wire pairs in a cable, crosstalk and therefore mutual signal interference can occur. The higher the near end crosstalk, the better the transmission quality.

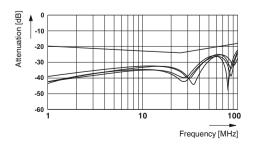
The return loss indicates to what extent a signal is reflected in a cable. Signal reflection can occur if there are disturbances on the transmission path, such as unevenness in the cable or the transition between the cable and plug-in connector. The higher the return loss, the lower the signal reflection and the better the transmission quality.

The two diagrams illustrate the near end crosstalk and the reflection loss of a PTPM plug-in connector with an Ethernet cable.

The top curve is the limiting curve. As long as the characteristic curve for the com- Near end crosstalk attenuation for PTPM plug ponents to be tested is below this curve, the requirements of category 5 are met.

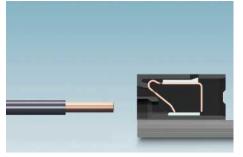


with Ethernet cable

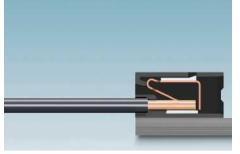


Reflection loss for PTPM plug with Ethernet cable

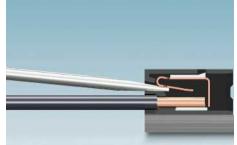
Conductor connection - miniature spring-cage PCB terminal blocks and plugs in the PTSM series



Strip conductor and connect solid conductor by means of direct plug-in technology. When connecting stranded conductors, the terminal point should be opened. To do this, insert a screwdriver in the opening above the cable entry funnel.



The conductor is connected and the terminal block is ready for operation.

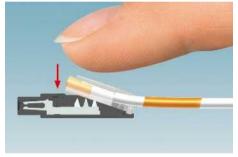


To release the conductor, insert the screwdriver in the opening above the cable entry funnel and remove the conductor.

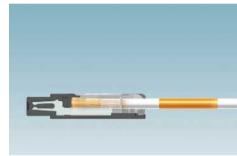
Conductor connection - PTPM pierce contact connector



Insert the untreated conductor in the terminal block diagonally from below.



Slide the conductor through the cover so that it is flush with the cover. Now close the cover.



The conductor is connected. The pierce contacts have penetrated the conductor insulation and a gas-tight connection has been established.

Conductor connection - PTQ miniature IDC terminal block



By default, the terminal block is closed in order to enable automatic assembly. Open the cover up before connecting the conductor.



Insert the untreated conductor in the terminal block cover until it is visible in the housing cutout.



Press down on the cover to close the terminal block. The insulation displacement contacts thus cut through the insulation.

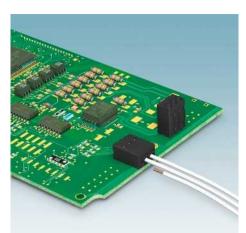
COMBICON High Density cross-reference list

		COMBICON HD headers								
	Туре		PTSMHH THR Page 59	PTSMHV THR Page 59	PTSMHH SMD Page 59	CIOCF Page 65	CIOCFL Page 65	CIOCFV-A Page 67	CIOCFV Page 67	
COMBICON HD plugs		Pitch	2.5	2.5	2.5	2.0	2.0	2.0	2.0	
	PTPM 0,2/P-2,5 Page 55	2.5	•	•	•					
	PTPM 0,4/P-2,5 Page 55	2.5	•	•	•					
552	PTSM 0,5/P-2,5 Page 55	2.5	•	•	•					
	PTSM 0,5/HHI-2,5- THR Page 61	2.5	•	•	•					
4	PTSM 0,5/HHI-2,5- SMD Page 61	2.5	•	•	•					
	CIOCM Page 65	2.0				•	•	•	•	
	CIOCLI Page 69	2.54								

5			
CIOCFH-SMD Page 67	CIOCLIH Page 69	CIOCLIV Page 69	CIOCLI Page 69
2.0	2.54	2.54	2.54
•			
	•	•	•

PCB terminal blocks and connectors with 2.5 mm pitch

THR spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile THR print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Double solder pins for stable hold on PCB
- Specifically designed for use in reflow/solder processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

PTSM is also available with white housings, see page 391.

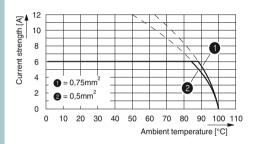
Observe derating curve.

- $^1)$ Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.
- 2) Applies for single-phase networks.

For all types Type Screwdriver SZS 0,4 X 2,0 Order No. 1205202 Ferrules with and without plastic sleeve Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 Order No. 1212034

Current carrying capacity curve

Type: PTSM 0,5/...-2,5-H- THR R...
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDB	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PTSM 0,5/2,5-H THR R24			PTSM 0,5/2,5-V THR R44		
	6/0.5			6/0.5	
	200 ²)			2002)	
	2.5			2.5	
0.14 - 0.5	5 / 0.2 - 0.5 /	24 - 201)	0.14 - 0.5	/ 0.2 - 0.5 /	24 - 201)
	0.25 - 0.5			0.25 - 0.5	
	-			-	
	-/-			-/-	
	-			-	
	-			-	
III/3	III/2	11/2	III/3	III/2	II / 2
63	200 ²)	200	63	2002)	200
2.5	2.5	2.5	2.5	2.5	2.5
В	С	D	В	С	D
150	-	-	150	-	-
5	-	-	5	-	-
26 - 20	-	-	26 - 20	-	-
В	С	D	В	С	D
	-	-		-	-
	-	-	-	-	-
-	-	-	-	-	-
	6			6	
	LCP / Illa		LCP / IIIa		
	V0		V0		
1.2	! / 0.3 x 0.8 r	nm	1.2	/ 0.3 x 0.8 r	mm

DTSM 0.67 -2.6-H THD D24 DTSM 0.67 -2.6-V THD D44

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50



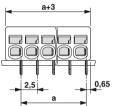


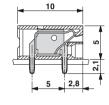
Horizontal PCB terminal block for THR applications

Vertical PCB terminal block for THR applications

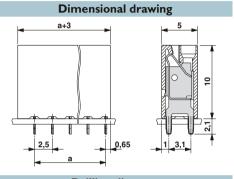


Dimensional drawing



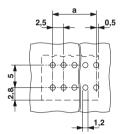


91 us 🕝



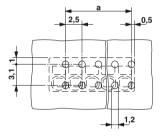
Drilling diagram





Ordering data							
Туре	Order No.	Pcs. / Pkt.					
2.5 mm pitch, color: black							
PTSM 0,5/ 2-2,5-H THR R24	1770885	530					
PTSM 0,5/ 3-2,5-H THR R32	1770898	530					
PTSM 0,5/ 4-2,5-H THR R32	1770908	530					
PTSM 0,5/ 5-2,5-H THR R32	1770911	530					
PTSM 0,5/ 6-2,5-H THR R32	1770924	530					
PTSM 0,5/ 7-2,5-H THR R32	1770937	530					
PTSM 0,5/ 8-2,5-H THR R32	1770940	530					

Drilling diagram



Ordering data						
Туре	Order No.	Pcs. / Pkt.				
2.5 mm pitch, color: black						
PTSM 0,5/ 2-2,5-V THR R44	1770953	310				
PTSM 0,5/ 3-2,5-V THR R44	1770966	310				
PTSM 0,5/ 4-2,5-V THR R44	1770979	310				
PTSM 0,5/ 5-2,5-V THR R44	1770982	310				
PTSM 0,5/ 6-2,5-V THR R44	1770995	310				
PTSM 0,5/ 7-2,5-V THR R44	1771004	310				
PTSM 0,5/ 8-2,5-V THR R44	1771017	310				

PCB terminal blocks and plugs with 2.5 mm pitch

SMD spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile SMD print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Rugged soldering anchors for safe mechanical fastening on the surface
- Specially designed to be used in pure SMT processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

PTSM is also available with white housings, see page 393.

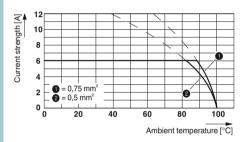
Observe derating curve.

- $^{\rm 1})$ Stranded conductor cross section of up to 0.75 mm $^{\rm 2}$ supported, for a rated insulation voltage of 32 V for III/2.
- 2) Applies for single-phase networks.

Accessories			
For all types	Туре	Page	
1	Screwdriver SZS 0,4 X 2,0 Order No. 1205202		
	Ferrules with and without plastic sleeve	834	
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		

Current carrying capacity curve

Type: PTSM 0,5/...-2,5-H- SMD R44
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	n the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation materia	al group
Inflammability class according to UL 94	

6 / 0.5 160²) 2.5			6 / 0.5 160²) 2.5			
1602)			160²)			
1602)			160²)			
	.5 / 24 - 20¹)		,			
2.5	.5 / 24 - 201)		2.5			
2.5	.5 / 24 - 20¹)		2.5			
	.5 / 24 - 20¹)					
	.5 / 24 - 201)					
0.14 - 0.5 / 0.2 - 0		0.14 - 0.5	6 / 0.2 - 0.5 /	24 - 20 ¹)		
0.25 - 0	.5		0.25 - 0.5			
-			-			
-/-			-/-			
			-			
III/3 III/2	11/2	III/3	III/2	11/2		
32 1602)	160	32	160 ²)	160		
2.5 2.5	2.5	2.5	2.5	2.5		
B C	D	В	С	D		
150 -	-	150	-	-		
5 -	-	5	-	-		
26 - 20 -	-	26 - 20				
B C	D	В	С	D		
	-		-	-		
	-		-	-		
	-	-	-	-		
6			6			
LCP/II	la		LCP / IIIa			
V0		V0				

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50







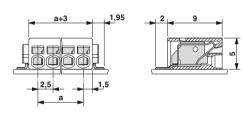
Vertical PCB terminal block for SMD applications

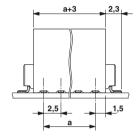


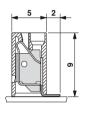
Dimensional drawing



Dimensional drawing







Drilling diagram

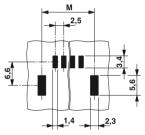
Dimension M: 7.7 mm

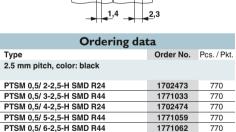
PTSM 0.5/ 7-2.5-H SMD R44

PTSM 0,5/ 8-2,5-H SMD R44

Drilling diagram





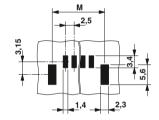


1771075

1771088

770

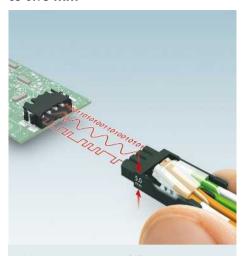
770



Ordering data								
Туре	Order No.	Pcs. / Pkt.						
2.5 mm pitch, color: black								
PTSM 0,5/ 2-2,5-V SMD R44	1771091	400						
PTSM 0,5/ 3-2,5-V SMD R44	1771101	400						
PTSM 0,5/ 4-2,5-V SMD R44	1771114	400						
PTSM 0,5/ 5-2,5-V SMD R44	1771127	400						
PTSM 0,5/ 6-2,5-V SMD R44	1771130	400						
PTSM 0,5/ 7-2,5-V SMD R44	1771143	400						
PTSM 0,5/ 8-2,5-V SMD R44	1771156	400						

PCB terminal blocks and plugs with 2.5 mm pitch

Plug with pierce contact up to 0.34 mm² and spring-cage connection up to 0.75 mm²



- Miniature plug with 2.5 mm pitch
- Can be plugged into THR and SMD headers
- Spring-cage and pierce contact technology
- Conductor connection up to 0.75 mm²
- High current carrying capacity up to 6 A

otes:
o not use ferrules with pierce contact plugs.
OMBICON select ou will find the possible plug-in connector combinations in OMBICON select at: www.phoenixcontact.net/products or tarting on page 48.
Stranded conductor cross section of up to 0.75 mm ² supported,

Accessories							
For all types	Туре	Page					
For PTSM plugs only	Screwdriver SZS 0,4 X 2,0 Order No. 1205202						
11	Ferrules with and without plastic sleeve	834					
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034						

Technical data		PTPM 0,2/P-2,5		PTPM 0,4/P-2,5		PTSM 0,5/P-2,5				
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section [A]	/ [mm²]		2/0.14			4 / 0.34			6/0.5	
Rated insulation voltage for pollution degree 2	[V]		160			125			160	
Pitch	[mm]		2.5			2.5			2.5	
Connection capacity										
Solid / stranded [mm ²] / [mm ²]	/ AWG	-/0.1	4-0.14/2	6 - 26	-/0.2	5 - 0.34 / 2	4 - 22	0.14 - 0.5	/ 0.2 - 0.51	/ 24 - 20
Insulation coordination										
Surge voltage category / pollution degree		III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	II / 2
Rated insulation voltage	[V]	40	160	160	32	125	125	100	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL) Use	Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]	50	-	50	50	-	50	150	-	-
Nominal current	[A]	2	-	2	3	-	3	5	-	-
Connection capacity AWG	AWG	26	-	26	24 - 22	-	24 - 22	26 - 20	-	-
Approval data (CSA) Use	Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Type of insulation material / insulation material group			PA/PC / III			PA/PC / III			PA/I	
Inflammability class according to UL 94			V0/V2			V0/V2			V0	

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
10	22.50

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PCB terminal blocks and plugs with 2.5 mm pitch





Pierce contact plug for conductor cross sections up 0.14 mm²/26 AWG



Pierce contact plug for conductor cross sections up 0.34 mm²/24 - 22 AWG

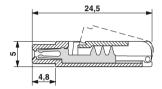


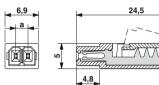
Spring-cage plug for conductor cross sections up to 0.75 mm²

₽¶. Dimensional drawing

Dimensional drawing

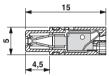
Dimensional drawing

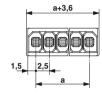




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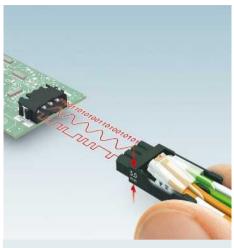
Ordering data							
Туре	Order No.	Pcs. / Pkt.					
PTPM 0,2/ 2-P-2,5	1780477	250					
PTPM 0,2/ 4-P-2,5	1780480	250					
PTPM 0,2/ 6-P-2,5	1780493	100					
PTPM 0,2/ 8-P-2,5	1780503	100					
PTPM 0,2/10-P-2,5	1780516	50					

Ordering data							
Туре	Order No.	Pcs. / Pkt.					
PTPM 0,4/ 2-P-2,5	1780529	250					
PTPM 0,4/ 4-P-2,5	1780532	250					
PTPM 0,4/ 6-P-2,5	1780545	100					
PTPM 0,4/ 8-P-2,5	1780558	100					
PTPM 0,4/10-P-2,5	1780561	50					

Ordering data							
Туре	Order No.	Pcs. / Pkt.					
PTSM 0,5/ 2-P-2,5	1778832	250					
PTSM 0,5/ 3-P-2,5	1778845	250					
PTSM 0,5/ 4-P-2,5	1778858	250					
PTSM 0,5/ 5-P-2,5	1778861	100					
PTSM 0,5/ 6-P-2,5	1778874	100					
PTSM 0,5/ 7-P-2,5	1778887	100					
PTSM 0,5/ 8-P-2,5	1778890	100					

PCB terminal blocks and plugs with 2.5 mm pitch

CAT5 plug with fast connection



- 4-pos. miniature plug with 2.5 mm pitch
- CAT5 Ethernet-capable according to IEC 11801
- Paired fast connection
- Tool-free conductor connection
- Can be combined with 5-pos. THR and SMD base strips of types PTSM 0,5/5...

Accessories							
For all types	Туре	Page					
	Base strip PTSM 0,5/ 5-HH-2,5- THR R32 Order No. 1778654	59					
	Base strip PTSM 0,5/ 5-HV-2,5- THR R32 Order No. 1778586	59					
Con .	Base strip PTSM 0,5/ 5-HH-2,5- SMD R32 Order No. 1778793	59					

Technical data			2/ 5-P-2,5 P	A CAT5	PTPM 0,4	l/ 5-P-2,5	PA CAT5	
Technical data in accordance to IEC / DIN VD	E							
Rated current / conductor cross section	[A] / [mm ²]		2/0.14		4 / 0.34			
Rated insulation voltage for pollution degree 2	2 [V]	160			125			
Pitch	[mm]		2.5		2.5			
Connection capacity								
Solid / stranded	[mm ²] / [mm ²] / AWG	-/0.1	4 - 0.14 / 20	6 - 26	-/0.2	5 - 0.34 / 2	24 - 22	
Insulation coordination								
Surge voltage category / pollution degree		III/3	III/2	11/2	III/3	III/2	II / 2	
Rated insulation voltage	[V]	40	160	160	32	125	125	
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	
Approval data (UL/CUL)	Use Group	В	С	D	В	С	D	
Nominal voltage	[V]	50	-	50	50	-	50	
Nominal current	[A]	2	-	2	3	-	3	
Connection capacity AWG	AWG	26	-	26	24 - 22	-	24 - 22	
Approval data (CSA)	Use Group	В	С	D	В	С	D	
Nominal voltage	[V]	-	-	-		-	-	
Nominal current	[A]	-	-	-		-	-	
Connection capacity AWG	AWG	-	-	-	-	-	-	
General data								
Type of insulation material / insulation material	al group	PA/PC / III			PA/PC / III			
Inflammability class according to UL 94		V0/V2			V0/V2			





Pierce connection of conductor cross sections of 0.14 mm²/26 AWG

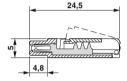
Pierce connection of conductor cross sections from 0.25 to 0.34 mm²/24 - 22 AWG

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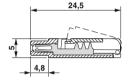
Dimensional drawing

c**91**us

Dimensional drawing









Ordering data				
Туре	Order No.	Pcs. / Pkt.		
2.5 mm pitch, color: black				
PTPM 0,2/ 5-P-2,5 PA CAT5	1811161	100		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
2.5 mm pitch, color: black				
PTPM 0,4/ 5-P-2,5 PA CAT5	1811145	100		

PCB terminal blocks and plugs with 2.5 mm pitch

SMT and THR headers for plugs with pierce contact or spring-cage connection



- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Rugged soldering anchors for safe mechanical fastening on the surface
- Supplied in tape-on-reel packing accord-IEC 60286-3 for automated mounting
- Compatible with PTSM...-/PTPM...con-
- Versions with and without positioning pins are available
- 2.5 mm pitch

Notes:

COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 48.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

PTSM is also available with white housings, see page 397.

- 1) UL/CUL on request.
- 2) Current carrying dependent upon plug used.
- 3) Applies for single-phase networks.

Technical data	PTSM 0,5	/HH-2,5-T	
Technical data in accordance to IEC / DIN VDE			
Rated current	[A]		6 ²)
Rated insulation voltage for pollution degree 2	[V]		160³)
Pitch	[mm]		2.5
Insulation coordination			
Surge voltage category / pollution degree		III/3	III/2
Rated insulation voltage	[V]	50	160³)
Rated surge voltage	[kV]	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С
Nominal voltage	[V]	150	-
Nominal current	[A]	6	-
Connection capacity AWG	AWG	-	-
Approval data (CSA)	Use Group	В	С
Nominal voltage	[V]	-	-
Nominal current	[A]	-	-
Connection capacity AWG	AWG	-	-
General data			
Type of insulation material / insulation material group			LCP / IIIa
Inflammability class according to UL 94			V0
Drill hole diameter / pin dimensions	[mm]	1.1	/ 0.6 x 0.6 m

PTSM 0,5/HH-2,5-THR R16		PTSM 0,5	i/HV-2,5	-THR R32	PTSM 0,5/	HH0-2,5	S-SMD R32		
J		6 ²)			6 ²)			6	
]		160³)			160³)		1603)		
1	-	2.5			2.5			2.5	
,		2.0			2.0			2.0	
	III/3	III/2	11/2	III/3	III/2	II / 2	III/3	III/2	II / 2
]	50	160 ³)	160	50	160 ³)	160	50	160 ³)	160
1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
0	В	С	D	В	С	D	В	С	D
]	150	-	-	150	-	-	-	-	-
<u>.]</u>	6	-	-	6	-	-	-	-	-
à	-	-	-	-	-	-	-	-	-
0	В	С	D	В	С	D	В	С	D
]		-	-		-	-		-	-
.]_		-	-		-	-		-	-
à	-	-	-	-	-	-	-	-	-
	LCP / IIIa				LCP / IIIa			LCP / IIIa	
	V0				V0			V0	
]_	1.1	/ 0.6 x 0.6 r	mm	1.1	/ 0.0 x 0.0 \	mm		-/-	

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
10	22.50

PCB terminal blocks and plugs with 2.5 mm pitch



Horizontal header for THR applications



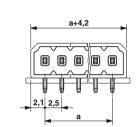
Vertical header for THR applications



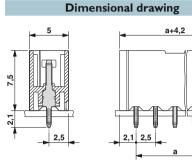
Horizontal header for SMD applications



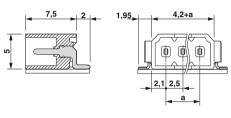
Dimensional drawing



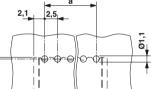
. SUus 🕝 Applied for: cUL / UL



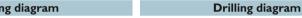
Dimensional drawing

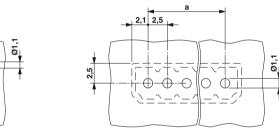


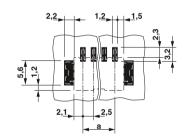
Drilling diagram



Drilling diagram







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products				

PTSM 0,5/ 2-HH-2,5-THR R16	1778625	500
PTSM 0,5/ 3-HH-2,5-THR R32	1778638	500
PTSM 0,5/ 4-HH-2,5-THR R32	1778641	500
PTSM 0,5/ 5-HH-2,5-THR R32	1778654	500
PTSM 0,5/ 6-HH-2,5-THR R32	1778667	500
PTSM 0,5/ 7-HH-2,5-THR R44	1778670	500
PTSM 0,5/ 8-HH-2,5-THR R44	1778683	500
PTSM 0.5/10-HH-2.5-THR R44	1701569	500

Ordering data						
Type Order No. Pcs. / Pkt.						
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products						

doming pin, see www.pineemxeemacanee.products				
PTSM 0,5/ 2-HV-2,5-THR R32	1778557	330		
PTSM 0,5/ 3-HV-2,5-THR R32	1778560	330		
PTSM 0,5/ 4-HV-2,5-THR R32	1778573	330		
PTSM 0,5/ 5-HV-2,5-THR R32	1778586	330		
PTSM 0,5/ 6-HV-2,5-THR R32	1778599	330		
PTSM 0,5/ 7-HV-2,5-THR R44	1778609	330		
PTSM 0,5/ 8-HV-2,5-THR R44	1778612	330		
PTSM 0,5/10-HV-2,5-THR R44	1701567	330		

Ordering data Order No. Pcs. / Pkt. 2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products

PTSM 0,5/ 2-HH0-2,5-SMD R32	1808190	600
PTSM 0,5/ 3-HH0-2,5-SMD R32	1808200	600
PTSM 0,5/ 4-HH0-2,5-SMD R32	1808213	600
PTSM 0,5/ 5-HH0-2,5-SMD R32	1808226	600
PTSM 0,5/ 6-HH0-2,5-SMD R44	1808239	600
PTSM 0,5/ 7-HH0-2,5-SMD R44	1808242	600
PTSM 0,5/ 8-HH0-2,5-SMD R44	1808255	600

PCB terminal blocks and plugs with 2.5 mm pitch

Inverted SMT and THR base strips



- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Robust solder anchor for secure, mechanical fixing to the surface
- Supplied in tape-on-reel packing accord-IEC 60286-3 for automated mounting
- Compatible with PTSM base strips
- Versions with and without positioning pins are available
- 2.5 mm pitch

Notes:

COMBICON select
You will find the possible plug-in connector combinations in
COMBICON select at: www.phoenixcontact.net/products or starting on page 48.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at www.phoenixcontact.net/products.

PTSM is also available with white housings, see page 399.

1) UL/CUL on request.

2) Applies for single-phase networks.

lechnical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PTSM 0,5/HHI-2,5-THR R24			PTSM 0,5	5/HHI0-2,5	-SMD R24	
		6			6	
2002)					160²)	
		2.5			2.5	
	III/3	III/2	II / 2	III/3	III/2	II / 2
	63	2002)	200	63	160 ²)	160
	2.5	2.5	2.5	2.5	2.5	2.5
	В	С	D	В	С	D
	-	-	-		-	-
	-	-	-		-	-
	-	-	-	-	-	-
	В	С	D	В	С	D
	-	-	-		-	-
	-	-	-		-	-
	-	-	-	-	-	-
	LCP / Illa				LCP / Illa	
V0			V0			
	1.	/ 0.6 x 0.4 m	ım		-/-	

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

PCB terminal blocks and plugs with 2.5 mm pitch





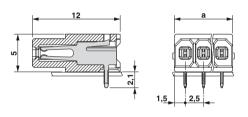


Horizontal inverted header, THR solderable

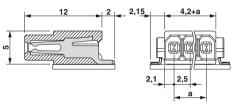


Horizontal inverted header, SMD solderable

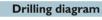
Dimensional drawing

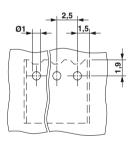


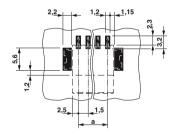
Dimensional drawing



Drilling diagram







Type Order No. Pcs. / Pkt. 2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products

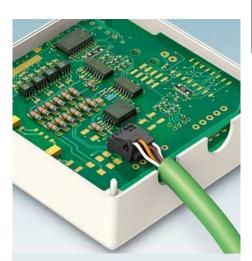
PTSM 0,5/ 2-HHI-2,5-THR R24	1815057	500
PTSM 0,5/ 3-HHI-2,5-THR R32	1815060	500
PTSM 0,5/ 4-HHI-2,5-THR R32	1815073	500
PTSM 0,5/ 5-HHI-2,5-THR R32	1815086	500
PTSM 0,5/ 6-HHI-2,5-THR R32	1815099	500
PTSM 0,5/ 7-HHI-2,5-THR R32	1815109	500
PTSM 0,5/ 8-HHI-2,5-THR R32	1815112	500

Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without pos tioning pin, see www.phoenixcontact.r		ith posi-

PTSM 0,5/ 2-HHI0-2,5-SMD R24	1815125	500
PTSM 0,5/ 3-HHI0-2,5-SMD R44	1815138	500
PTSM 0,5/ 4-HHI0-2,5-SMD R44	1815141	500
PTSM 0,5/ 5-HHI0-2,5-SMD R44	1815154	500
PTSM 0,5/ 6-HHI0-2,5-SMD R44	1815167	500
PTSM 0,5/ 7-HHI0-2,5-SMD R44	1815170	500
PTSM 0,5/ 8-HHI0-2,5-SMD R44	1815183	500

PCB terminal blocks with insulation displacement connection with 2.5 mm pitch

Connection cross section of up to 0.34 mm²



- Conductor connection without pretreatment.
- 2.5 mm pitch
- THR solderable
- Taped as standard
- Secure locating mechanism
- Option to visually inspect the conductor position
- Supplied in taped packaging according to IEC 60286-3 for automatic assembly
- Anti-rotation pins
- Finger operation, no tools necessary

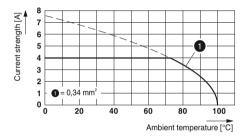
Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at www.phoenixcontact.net/products

Observe derating curve.

Current carrying capacity curve

Type: PTQ 0,3/..-2,5(-L) THR R32
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1 No. of positions: 5



Technical data				
Technical data in accordance to IEC / DIN VD	E			
Rated current / conductor cross section	[A] / [mm ²]		4/0.34	
Rated insulation voltage for pollution degree 2	[V]		160	
Phyli	f1	-	0.5	
Pitch	[mm]		2.5	
Connection capacity				
Solid / stranded	[mm ²] / [mm ²] / AWG	0.14 - 0.3	4/0.14-0.3	34 / 26 - 22
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]	160	160	200
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	150	-	-
Nominal current	[A]	2	-	-
Connection capacity AWG	AWG	24	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material	al group	-	LCP / Illa	
Inflammability class according to UL 94			V0	
Drill hole diameter / pin dimensions	[mm]	1	.1 / 0.9 x 0.	4

No. of pos.	Dim. a [mm]
2	2.50

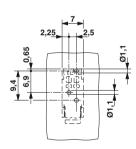


IDC PCB terminal block

CCA CB scheme

Dimensional drawing

Drilling diagram



Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
PTQ 0,3/ 2-2,5 THR R32	1702610	250

Plugs with displacement connection, 2.0 to 2.54 mm pitch

Plugs with displacement connection up to 0.5 mm²



- 3- and 4-pos. miniature plug-in connectors
- For sensor/actuator wiring
- Fast and safe displacement connection
- Gold-plated contact system
- Connection of AWG conductors with a 7-strand conductor structure and PVC insulation; other conductor types can be used on request
- Conductor connection with the help of conventional pliers
- Colored, transparent covers enable you to check that the displacement connection has been contacted correctly
- Panel feed-through with CIOC ...-FL
- Additional CIOC 3-2...-FL versions available on request

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 48.

For 3-pos. items, please enquire about the minimum order amount and delivery time.

1) Different value for CIOC 3-20... and CIOC 4-20... = 24-20 AWG und stranded conductors = 0.25 - 0.5 mm².

Technical data				
Technical data in accordance to IEC / DIN VD	E			
Rated current / conductor cross section	[A] / [mm ²]		3/0.25	
Rated insulation voltage for pollution degree 2	[V]		32	
Pitch	[mm]	-	2	
Connection capacity	` .			
Solid / stranded	[mm ²] / [mm ²] / AWG	-/0.1	4 - 0.25 / 26	6 - 241)
Insulation coordination	, , , ,			,
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]		32	
Rated surge voltage	[kV]			-
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (UL/CUL)				
Nominal voltage	[V]		32	
Nominal current	[A]		3	
Connection capacity AWG	AWG		26-20	
General data				
Type of insulation material / insulation materia	l group		PBT/PC / -	
Inflammability class according to UL 94			V0	
·				-

No. of pos.	Dim. a [mm]
3 4	4.00
4	6.00
3	4.00
4	6.00
3 4	4.00
4	6.00
3 4	4.00
4	6.00
3 4	4.00
4	6.00
3	4.00
4	6.00

Plugs with displacement connection, 2.0 to 2.54 mm pitch



Plug with pin contact



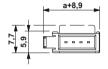
Plug with socket contact



Plug as panel feed-through with socket con-

.91us 🕑

Dimensional drawing







91 us 🕝

Dimensional drawing

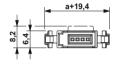






c**91**us 🕑

Dimensional drawing







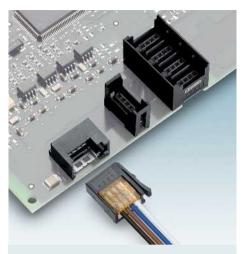
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
1.0 mm outside conductor diameter, 26 (CIOC 3 on request)	6 - 24 AWG, co	olor: red	
CIOC 3-24-1,0-M	1701390	50	
CIOC 4-24-1,0-M	1700994	50	
1.2 mm outside conductor diameter, 26 low	6 - 24 AWG, co	olor: yel-	
CIOC 3-24-1,2-M	1701391	50	
CIOC 4-24-1,2-M	1701016	50	
1.6 mm outside conductor diameter, 26 ange (CIOC 3 on request)	6 - 24 AWG, co	olor: or-	
CIOC 3-24-1,6-M	1701392	50	
CIOC 4-24-1,6-M	1701032	50	
1.2 mm outside conductor diameter, 24 (CIOC 3 on request)	- 20 AWG, col	or: green	
CIOC 3-20-1,2-M	1701393	50	
CIOC 4-20-1,2-M	1701058	50	
1.6 mm outside conductor diameter, 24 (CIOC 3 on request)	1 - 20 AWG, co	olor: blue	
CIOC 3-20-1,6-M	1701394	50	
CIOC 4-20-1,6-M	1701074	50	
2.0 mm outside conductor diameter, A parent	WG 24-20, col	or: trans-	
CIOC 3-20-2,0-M	1701396	50	
CIOC 4-20-2,0-M	1701090	50	

Type 1.0 mm outside conductor diameter, 26 - 24 AWG, color: red (CIOC 3 on request) CIOC 3-24-1,0-F 1701397 50 CIOC 4-24-1,0-F 1701113 50 1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow CIOC 3-24-1,2-F 1701398 50 CIOC 4-24-1,2-F 1701139 50 1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3 on request) CIOC 3-24-1,6-F 1701399 50 CIOC 4-24-1,6-F 1701155 50 1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) CIOC 3-20-1,2-F 1701400 50 CIOC 4-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 CIOC 4-20-1,6-F 1701197 50 CIOC 4-20-1,6-F 1701197 50 CIOC 4-20-1,6-F 1701197 50 CIOC 3-20-2,0-F 1701403 50 CIOC 4-20-2,0-F 1701403 50	Ordering data			
(CIOC 3 on request) CIOC 3-24-1,0-F 1701397 50 CIOC 4-24-1,0-F 1701113 50 1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow 1701398 50 CIOC 3-24-1,2-F 1701139 50 CIOC 4-24-1,2-F 1701139 50 Li mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3 on request) 1701399 50 CIOC 3-24-1,6-F 1701399 50 CIOC 3-24-1,6-F 1701155 50 1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) 50 CIOC 3-20-1,2-F 1701400 50 CIOC 4-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) 50 CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent 1701403 50	Туре	Order No.	Pcs. / Pkt.	
CIOC 4-24-1,0-F 1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow CIOC 3-24-1,2-F 1701398 50 CIOC 4-24-1,2-F 1701139 50 1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3 on request) CIOC 3-24-1,6-F 1701399 50 CIOC 4-24-1,6-F 1701155 50 1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) CIOC 3-20-1,2-F 1701400 50 CIOC 4-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50		6 - 24 AWG, co	olor: red	
1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow CIOC 3-24-1,2-F 1701398 50 CIOC 4-24-1,2-F 1701139 50 1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3 on request) 50 CIOC 3-24-1,6-F 1701399 50 CIOC 4-24-1,6-F 1701155 50 1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) CIOC 3-20-1,2-F 1701400 50 CIOC 4-20-1,2-F 1701171 50 CIOC 3 on request) 1701402 50 CIOC 3-20-1,6-F 1701402 50 CIOC 3-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50	CIOC 3-24-1,0-F	1701397	50	
Iow CIOC 3-24-1,2-F 1701398 50 CIOC 4-24-1,2-F 1701139 50 1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3 on request) CIOC 3-24-1,6-F 17011399 50 CIOC 4-24-1,6-F 1701155 50 1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) CIOC 3-20-1,2-F 1701400 50 CIOC 4-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50 CIOC 3-20-2,0-F 1701403	CIOC 4-24-1,0-F	1701113	50	
CIOC 4-24-1,2-F 1701139 50 1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3 on request) 50 CIOC 3-24-1,6-F 1701399 50 CIOC 4-24-1,6-F 1701155 50 1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) 50 CIOC 3-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) CIOC 3-20-1,6-F 1701402 50 CIOC 3-20-1,6-F 1701197 50 CIOC 4-20-1,6-F 30 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50	,	6 - 24 AWG, co	olor: yel-	
1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3 on request) CIOC 3-24-1,6-F 1701399 50 CIOC 4-24-1,6-F 1701155 50 1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) 50 CIOC 4-20-1,2-F 1701400 50 CIOC 4-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) 50 CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50	CIOC 3-24-1,2-F	1701398	50	
ange (CIOC 3 on request) CIOC 3-24-1,6-F 1701399 50 CIOC 4-24-1,6-F 1701155 50 1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) 50 CIOC 3-20-1,2-F 1701400 50 CIOC 4-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) 60 60 CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50	CIOC 4-24-1,2-F	1701139	50	
CIOC 4-24-1,6-F 1701155 50 1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) CIOC 3-20-1,2-F 1701400 50 CIOC 4-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50		6 - 24 AWG, co	olor: or-	
1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3 on request) CIOC 3 on request) 50 CIOC 3-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) 50 CIOC 3-20-1,6-F 1701402 50 CIOC 3-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50	CIOC 3-24-1,6-F	1701399	50	
(CIOC 3 on request) CIOC 3-20-1,2-F 1701400 50 CIOC 4-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) 50 CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50	CIOC 4-24-1,6-F	1701155	50	
CIOC 4-20-1,2-F 1701171 50 1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) 50 CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50		- 20 AWG, col	or: green	
1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3 on request) 50 CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent 50 CIOC 3-20-2,0-F 1701403 50	CIOC 3-20-1,2-F	1701400	50	
(CIOC 3 on request) 50 CIOC 3-20-1,6-F 1701402 50 CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50	CIOC 4-20-1,2-F	1701171	50	
CIOC 4-20-1,6-F 1701197 50 2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50				
2.0 mm outside conductor diameter, AWG 24-20, color: transparent CIOC 3-20-2,0-F 1701403 50	CIOC 3-20-1,6-F	1701402	50	
parent CIOC 3-20-2,0-F 1701403 50	CIOC 4-20-1,6-F	1701197	50	
	·			
CIOC 4-20-2,0-F 1701210 50			50	
	CIOC 4-20-2,0-F	1701210	50	

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
1.0 mm outside conductor diameter, A	WG 26-24, col	or: red
CIOC 4-24-1,0-FL	1701236	50
1.2 mm outside conductor diameter, 20 low	6 - 24 AWG, co	olor: yel-
CIOC 4-24-1,2-FL	1701252	50
1.6 mm outside conductor diameter, A ange		
CIOC 4-24-1.6-FL	1701278	50
,-		
1.2 mm outside conductor diameter, A	WG 24-20, COI	or: green
0100 4 00 4 0 51	1701001	=0
CIOC 4-20-1,2-FL	1701294	50
1.6 mm outside conductor diameter, 24 (CIOC 3 on request)		olor: blue
CIOC 3-20-1,6-FL	1701404	50
CIOC 4-20-1,6-FL	1701317	50
2.0 mm outside conductor diameter, A parent	WG 24-20, col	or: trans-
CIOC 4-20-2,0-FL	1701333	50

Plugs with displacement connection, 2.0 to 2.54 mm pitch

Single and four-row headers for wave soldering and SMD processes



- 3-pos. and 4-pos. CIOC miniature headers for CIOC ...-M plugs
- Gold-plated contact system
- Enables space-saving installation of I/O modules and signal distributors

CIOC 4-1-FH-SMD-B

- Delivery form: Tape-on-reel packing according to IEC 60286-3, reel diameter: 380 mm, tape width: 32 mm

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select
You will find the possible plug-in connector combinations in COM-BICON select at: www.phoenixcontact.net/products or starting on page 48.

Technical data		CIOC 4-1-FV-A		CIOC 4-4-FV		CIOC 4-1-FH-SMD-B R32				
Technical data in accordance to IEC / DIN VDE										
Rated current	[A]		3			3			3	
Rated insulation voltage for pollution degree 2	[V]		32			32			32	
Pitch	[mm]		2			2			2	
Insulation coordination										
Surge voltage category / pollution degree		III/3	III/2	II / 2	III/3	III/2	II / 2	III/3	III/2	II / 2
Rated insulation voltage	[V]		32			32	_		32	
Rated surge voltage	[kV]									
Approval data (UL/CUL)	Use Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (CSA)	Use Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]		-	-	_	-	-		-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (UL/CUL)										
Nominal voltage	[V]		32			32			32	
Nominal current	[A]		3			3			3	
Connection capacity AWG	AWG		-			-			-	
General data										
Type of insulation material / insulation material group			PA/-			PA / -			LCP / IIIa	
Inflammability class according to UL 94			V0			V0			V0	
	·	-						-	-	-

No. of pos.	Dim. a [mm]
3	4.00
4	6.00

Plugs with displacement connection, 2.0 to 2.54 mm pitch



Single-row, for wave soldering processes Plug-in direction vertical to the PCB



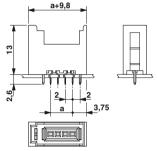
Four-row, for wave soldering processes Plug-in direction vertical to the PCB



Single-row, taped, for SMD applications, plugin direction parallel to the PCB



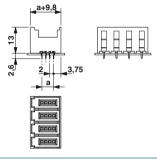




Drilling diagram

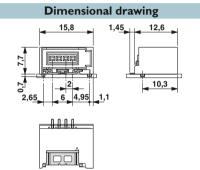


Dimensional drawing

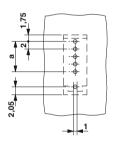


Drilling diagram

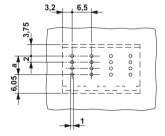




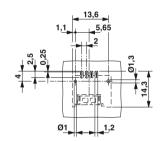
Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
2 mm pitch, color: black				
CIOC 3-1-FV-A	1701551	100		
CIOC 4-1-FV-A	1701388	100		



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
2 mm pitch, color: black				
CIOC 3-4-FV	1701552	50		
CIOC 4-4-FV	1701401	50		



	Ordering da	ta	
Туре		Order No.	Pcs. / Pkt.
2 mm pitch, color: b	olack		
CIOC 4-1-FH-SMD-E	3 R32	1701322	400

Plugs with displacement connection, 2.0 to 2.54 mm pitch

Bus plug-in connectors up to 0.75 mm² connection cross section



- Supplementing the CIOC plug-in connector range with 4-pos. link connector with a 2.54 mm pitch
- Gold-plated contact system
- A plug-in pick-off at any point in the bus and power line can be achieved using two CIOC 4-18-LI plugs
- The CIOC 4-18-LI plug can be combined with the LIH or LIV base strips for a horizontal or vertical PCB connection

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select

You will find the possible plug-in connectors combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 48.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

Technical data		CIOC 4-18-LI		CIOC 4-1-LIH		CIOC 4-1-LIV			
$[A] / [mm^2]$		5/0.75			5			5	
[V]		-			-			-	
[mm]		2.54		2.54		2.54			
nm²] / AWG	-	/-/18-18	3		-/-/-			-/-/-	
[mm ²]		-			-			-	
[mm ²]		-			-			-	
ross section)									
[mm ²]		-/-			-/-			-/-	
[mm ²]		-			-			-	
[mm ²]		-			-			-	
	III/3	III/2	II / 2	III/3	III/2	II / 2	III/3	III/2	11/2
[V]	160			160			160		
[kV]									
Use Group	В	С	D	В	С	D	В	С	D
[V]	-	-	-		-	-		-	-
[A]	-	-	-		-	-	-	-	-
AWG	-	-	-	-	-	-	-	-	-
Use Group	В	С	D	В	С	D	В	С	D
[V]	-	-	-		-	-	-	-	-
[A]	-	-	-		-	-		-	-
AWG	-	-	-	-	-	-	-	-	-
	PA/PBT / -			PBT/-		PBT / -			
		V0			V0		-	V0	
	[V] [mm] [mm²] / AWG [mm²] [mm²] [mm²] [mm²] [mm²] [w] [kV] Use Group [V] [A] AWG Use Group [V]	[V] [mm] mm²] / AWG [mm²] [mm²] ross section) [mm²] [mm²] [mm²] [w] [kV] Use Group [V] [A] AWG AWG - AWG - AWG -	[V]	[V]	[V]	[V]	[V]	[V]	[V]

No. of pos.	Dim. a
110. 0. poo.	[mm]
4	7.62

Plugs with displacement connection, 2.0 to 2.54 mm pitch



Bus plug



Bus plug header, plug-in direction parallel to the PCB



Bus plug header, plug-in direction vertical to the PCB



Type Color: Black

CIOC 4-18-LI

Dimensional drawing

Ordering data

Order No. Pcs.

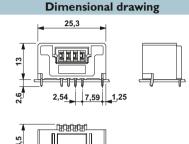
1701359



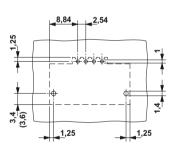






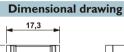


Drilling diagram



	Ordering data					
cs. / Pkt.	Туре		Order No.	Pcs. / Pkt.		
	Color: Black					
100	CIOC 4-1-LIH		1701362	100		

PLus 🕑

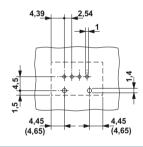




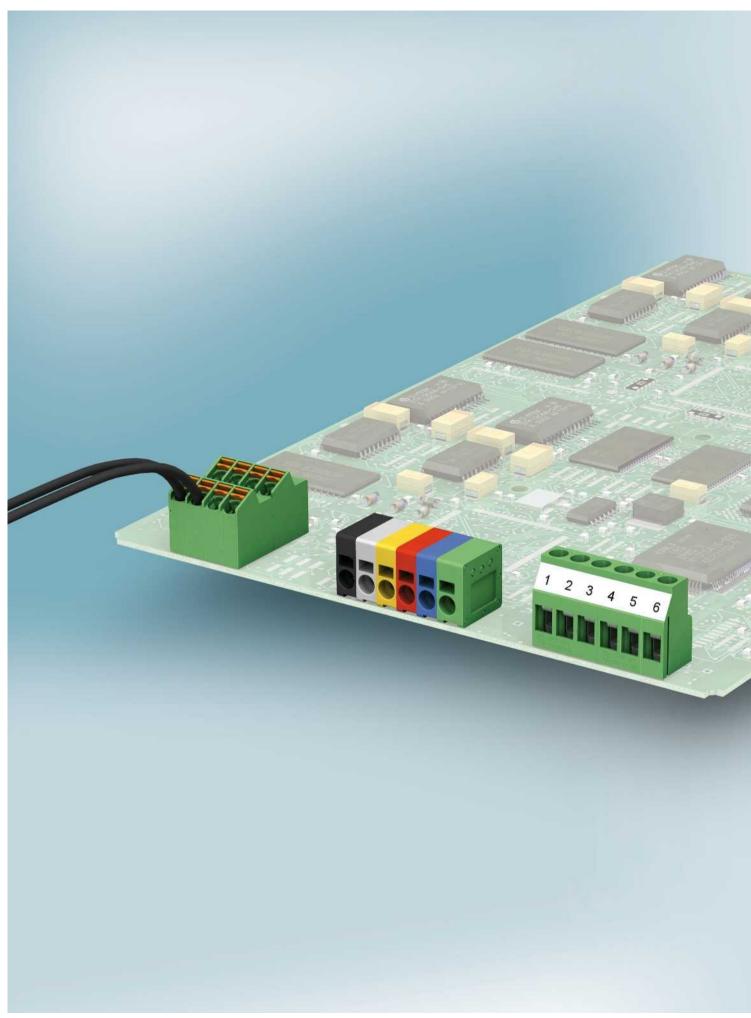




Drilling diagram



Orde	ring data	
Туре	Order No.	Pcs. / Pkt.
Color: Black		
CIOC 4-1-LIV	1701375	100



PCB terminal blocks with 2.54 to 7.62 mm pitch

The diverse applications for PCB terminal blocks in the field of measurement and control technology have resulted in a continually growing product range over the past several years, which meets the requirements of a large number of different devices and associated device specifications.

Whether using modern process interfaces or automation components through to the PLC, you will always find the right connection terminal block for your application in the PCB terminal block range.

The product range offers three connection technologies (screw, spring-cage, and insulation displacement connection). Single-level as well as double-, three-, and four-level terminal blocks are available to increase the contact density on the PCB. The screw and spring-cage versions are pin-compatible with each other. As a result, the user can choose between the two connection technologies without having to change the layout, thereby achieving a high level of flexibility in PCB production and reducing costs.

The range offers pitches from 2.54 to 7.62 mm. The terminal blocks are designed for currents up to 41 A and voltages up to 630 V (surge voltage category III/pollution degree 2). Conductor cross sections from 0.08 to 6 mm² can be connected.

When developing PCB terminal blocks, requirements for state-of-the-art production methods for electronic modules are taken into consideration. Products are available for SMT production in the form of PCB terminal blocks for through hole reflow (THR) and SMD assembly. PCB terminal blocks are available with press-in technology for solder-free processing. PCB terminal blocks that are suitable for the reflow process have high-temperature-resistant insulating housing. The various series are also available in bar or tape magazines.

Customer-specific requirements can also be taken into account when producing PCB terminal blocks. For example, the terminal blocks are available with a closed clamping space, as partially assembled versions or in various colors. Please contact us for more information.

General	72
PCB terminal blocks with screw and spring connection for the reflow process, currents up to 24 A, pitch 3.5/3.81/5.0/5.08 mm	75
Connection cross section up to 1.5 mm²	75
Connection cross section up to 2.5 mm ² SMD PCB terminal blocks with connection cross section up to 1.5 mm ²	77 82
PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A, pitch 2.54/3.5/3.81/5.0/5.08 mm	83
Connection cross section up to 0.5 mm²	83
Connection cross section up to 1.5 mm ² Connection cross section up to 2.5 mm ²	85 103
Front connection up to 2.5 mm²	114
Single terminal blocks up to 2.5 mm ²	117
PCB terminal blocks with screw connection for wave soldering processes, currents up to 41 A, pitch 7.5/7.62 mm	119
Connection cross section up to 1.5 mm ²	119
Connection cross section up to 2.5 mm ² Single terminal blocks up to 4 mm ²	123 127
PCB terminal blocks with spring-cage connection for wave soldering processes, currents up to 24 A, pitch 3.81/5.0/5.08 mm	129
Connection cross section up to 1.5 mm ² Connection cross section up to 2.5 mm ²	129 135
PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A, pitch 2.54/3.5/3.81/5.0/5.08/7.62 mm	137
Angled conductor connection up to 1.5 mm ² Horizontal or vertical conductor connection up to 2.5 mm ²	137 141
With actuation rocker and connection up to 1.5 mm ²	145
Connection cross section up to 2.5 mm ²	153
PCB terminal blocks with displacement connection for wave soldering processes, currents up to 5 A, pitch 3.81	154
Connection cross section up to 0.34 mm ²	154
PCB terminal blocks with screw connection for the Ex area for wave soldering processes Multi-level terminal blocks with connection up to 1.5 mm ²	157 157
Triditi-level terminal blocks with connection up to 1.5 min	137
Horizontal or vertical conductor connection up to 2.5 mm ²	158
PCB terminal blocks with spring connection for the Ex area for wave soldering processes	161
Angled conductor connection up to 2.5 mm ² Horizontal or vertical conductor connection up to 2.5 mm ²	161 163
Tion Zontar of Vertical conductor connection up to 2.3 mm	103
PCB isolating plugs	164
Elat-type fuse holders	165

General

Customer-specific standard terminal blocks



PCB terminal blocks with open or closed clamping space

Customer-specific requirements and needs can be taken into account when producing PCB terminal blocks. The terminal blocks are available with a closed clamping space, as partially assembled versions and in various colors.

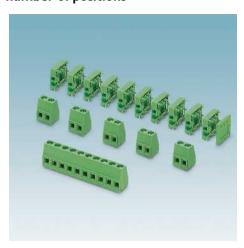
Standard terminal blocks with special functions



Versions with slotted-head and Phillips screws

The individual processing of PCB terminal blocks in the soldering process, and even the special features for conductor connection, are taken into account in many product ranges. Here, you can choose between slotted-head and Phillips screws, as well as various solder pin lengths. Please contact us for more information.

PCB terminal blocks with a variable number of positions



One-piece blocks and single PCB terminal blocks

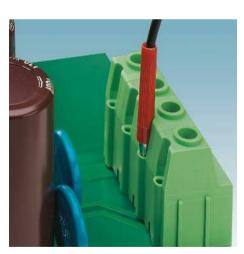
PCB terminal blocks are available in three versions – as a one-piece block, as part blocks or as single terminal blocks. Part blocks can be assembled into high-position blocks using a keyway/featherkey joint. In the case of single terminal blocks, you can freely determine the number of positions for individual assembly. The row must only be interrupted if the number of positions exceeds 30, in order to compensate possible tolerances between terminal block and PCB.



Fully or partially assembled versions



PCB terminal blocks with long or short solder pin



PCB terminal blocks with integrated test connection

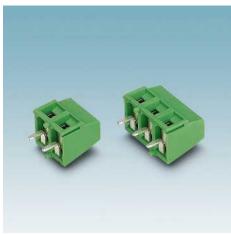
Bridges



Internal bridges

Two methods are available for potential distribution or looping through the ground conductor in PCB terminal blocks. The easiest solution is a separate bridge fixed directly in the connection area, if necessary, with a supply conductor. Internally bridged versions are available in the standard MKDS product range. The entire clamping space is also available here.

Anti-rotation protection

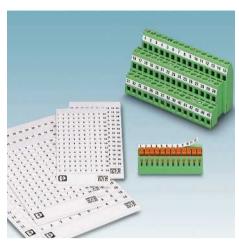


PCB terminal blocks with anti-rotation pins

2- and 3-pos. terminal blocks in particular are often subjected to high tightening torques, which cannot be absorbed by a few solder pins. Usually these terminal blocks must be supported during conductor connection.

If this is not possible, versions with additional anti-rotation pins are available for many terminal blocks.

Marking



Marking with marker cards

For marking individual terminal points, marker cards (SK strips with consecutive numbers 1 - 10, 11 - 20) are available with 2.5 to 7.62 mm pitch for both single terminal blocks and multi-position PCB terminal blocks bases. Alternatively, the terminal blocks can also be supplied with individual marking.



Separate fixed bridge



Color versions

Note:

Since the installation environment of the entire PCB cannot be influenced, the specified nominal voltage of all COMBICON PCB terminal blocks refers to the "as-delivered" state. For more detailed information on the dimensioning of air and creepage distances of PCBs, see page 849.

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A

Connection cross section of up to 1.5 mm²



- Application in SMT reflow processes
- Standard types of PCB terminal blocks made of high-temperature resistant plastics
- Delivery form: box packaging bulk
- Taped packaging in accordance with IEC 60286-3 for automatic assembly on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions avoid 20

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.







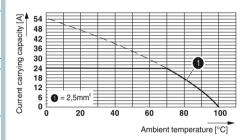
Detection lug for models with 3.81 mm inch pitch

	A	
	Accessories	
For all types	Туре	Page
Only for MKDS 1/	HT BK	
12	Screwdriver	
	SZS 0,4 x 2,5	
1	Order No.	
4	1205037	
DIAMON III	Marker cards	797
All the second	SK 3,5/2,8 or SK	
	3,81/2,8	
ay .		
Only for MKDSN 1	,5/HT BK and MKDS 1,5/	HT BK
10	Screwdriver	
	SZS 0,6 x 3,5	
1	Order No.	
•	1205053	
	Insertion bridge	829
	EBP 5	
An		
	Marker cards	798

SK 5/3,8 orSK 5,08/3,8

Current carrying capacity curve Type: MKDS 1,5/...-HT BK

Test as per DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	th the same cross section)
Solid / stranded	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
	[mm]

	MKE	S 1/HT	вк	MKDS	SN 1,5/	нт вк	MKD	S 1,5/ F	IT BK
		13.5¹) / 1.	5		13.5¹) / 1.5	5		17.5 ¹) / 2.5	5
]		200			320			320	
_									
		3.5 / 3.81			5/5.08			5 / 5.08	
	014 15	/014 1	5/26-16	014.15	/014 1	5/26-16	014 05	/ 0.14 - 1.	E / OC 14
-	0.14 - 1.5	0.25 - 0.5		0.14 - 1.5	0.25 - 1	5/20-10	0.14 - 2.5	0.25 - 1.5	
L		0.25 - 0.5			0.25 - 1.5			0.25 - 1.5	
		0.23 - 0.3			0.25 - 1.5			0.25 - 1.5	
1	0.14 -	0.5 / 0.14	- 0.34	0.14 -	0.75 / 0.14	1 - 0.75	0.14	- 1 / 0.14 -	0.75
	III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	II/2
	63	200	200	200	320	320	200	320	320
	2.5	2.5	2.5	4	4	4	4	4	4
)	В	С	D	В	С	D	В	С	D
]_	300	-	300	300	-	300	300	-	300
L	10	-	10	10	-	10	15	-	10
i	30 - 16	-	30 - 16	30 - 14	-	30 - 14	30 - 14	-	30 - 14
)	В	С	D	В	С	D	В	С	D
L	150	-	300		-			-	-
Ŀ	10	-	10		-			-	-
	28 - 16	-	28 - 16		-		-	-	-
1		5			6			7	
L	5 M2		M3						
1	0.22 - 0.25			0.5 - 0.6		0.5 - 0.6			
_	PA / Illa		PA / Illa			PA / Illa			
_	VO		V0			V0			
1.1 / 0.5 x 0.9 mm		1.3 / 0.5 x 1 mm		1.3 / 0.9 x 0.9 mm					
_		-		-	-		<u></u>	-	-

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
2	3.81
3	7.62
2	5.00
3	10.00
2	5.08
3	10.16

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A



Without housing overlapping



With housing overlapping, Low-profile design

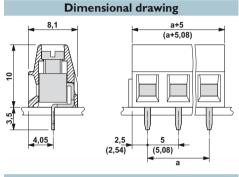


With housing overlapping

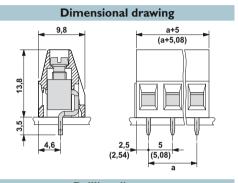


7,3
(a+4, (a+3,8)
(a+3,8)
(1,9)
(3,81)





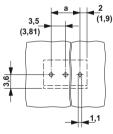
CCA CB



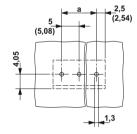
Drilling diagram



Drilling diagram







Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 5.0 mm, color: Black					
MKDSN 1,5/2 HT BK	1985849	50			
MKDSN 1,5/3 HT BK	1985852	50			
Headers, 5.08 mm pitch, color: Black					
MKDSN 1,5/ 2-5,08 HT BK	1985865	50			
MKDSN 1,5/ 3-5,08 HT BK	1985878	50			

(5,08)	a 🖊	2,5 (2,54)
4,6		· • • • • • • • • • • • • • • • • • • •	1,3

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
-					
Ditable 5.0 many and an Olambia					
Pitch 5.0 mm, color: Black					
MKDS 1,5/ 2 HT BK	1985881	50			
MKDS 1,5/ 3 HT BK	1985894	50			
Headers, 5.08 mm pitch, color: Black					
MKDS 1,5/ 2-5,08 HT BK	1985904	50			
MKDS 1,5/ 3-5,08 HT BK	1985917	50			

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A

Connection cross section of up to 2.5 mm²



- 5.0 or 5.08 mm pitch
- Application in SMT reflow processes
- Standard types of PCB terminal blocks made of high-temperature resistant plastics
- Delivery form: box packaging bulk
- Taped packaging in accordance with IEC 60286-3 for automatic assembly on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions avoid 20.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch

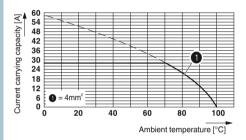


Detection lug for models with 5.08 mm inch pitch

Accessories					
For all types	Туре	Page			
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053				
· _/	Marker cards SK 5/3,8 orSK 5,08/3,8	798			
	Insertion bridge EBP 5	829			

Current carrying capacity curve

Type: MKDS 3/...HT BK
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm ²] /	/ [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with the sam	e cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDS	N 2,5/ I	нт вк	MKE	S 3/ H	ГВК	ZFKD	S 2,5-5,0	8 THT
	161) / 2 5			241) / 4			241) / 4	
	16¹) / 2.5 320			320		-	320	
	320			320			320	
	5 / 5.08			5 / 5.08		-	5.08	
0.2 - 2.5	/ 0.2 - 2.5	7 24 - 14	0.2 - 4/	0.2 - 2.5	24 - 12	0.2 - 4 / 0.2 - 2.5 / 24 - 12		
	0.25 - 2.5	·		0.25 - 2.5			0.25 - 2.5	
	0.25 - 2.5	·		0.25 - 1.5			0.25 - 1.5	
0.2 -	0.75 / 0.2	- 0.75	0.2	- 1.5 / 0.2	- 1.5		-/-	
	0.25 - 0.7	5		0.25 - 0.75	5		-	
	0.5 - 1.5			0.5 - 1.5			-	
III/3	III/2	II / 2	III/3	III/2	11/2	III/3	III/2	11/2
200	320	320	200	320	320	200	320	320
4	4	4	4	4	4	4	4	4
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300	250	-	300
20	-	15	15	-	10	10	-	10
30 - 12	-	30 - 12	30 - 12	-	30 - 12	26 - 12	-	26 - 12
В	С	D	В	С	D	В	С	D
	-	-	300	-	300		-	-
	-	-	10	-	10		-	-
-	-	-	28 - 12	-	28 - 12	-	-	-
							_	
	6.5			8			7	
	M3			M3			-	
	0.5 - 0.6 0.5 - 0.6							
PA/IIIa PA/IIIa			PA / Illa					
V0		V0		V0 1.3 / 0.8 x 0.8 mm				
1.3	1.3 / 0.8 x 0.9 mm 1.3 / 0.9 x 0.9 mm			1.3	/ U.8 X U.8	mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
1	
2	5.08
3	10.16
1	
4	

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A



With screw connection and housing overlapping, low-profile design

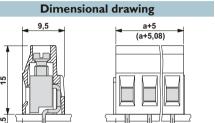


With screw connection and housing overlapping



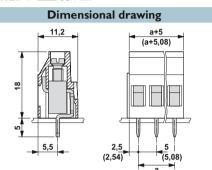
With spring-cage connection and two solder pins, modular design



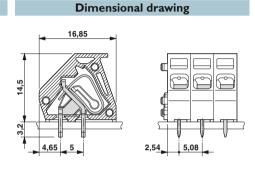


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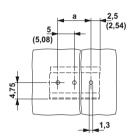
© SLU US © SEEN CCA CB.



PLus 🕝

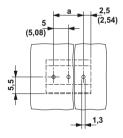


Drilling diagram



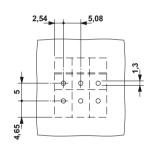
Ordering data						
Type Order No. Pcs./P						
Pitch 5.0 mm, color: Black						
MKDSN 2,5/2 HT BK	1985920	50				
MKDSN 2,5/ 3 HT BK	1985933	50				
Headers, 5.08 mm pitch, color: Black						
MKDSN 2,5/ 2-5,08 HT BK	1985946	50				
MKDSN 2,5/ 3-5,08 HT BK	1985959	50				

Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 5.0 mm, color: Black				
MKDS 3/2 HT BK	1985962	50		
MKDS 3/3 HT BK	1985975	50		
Headers, 5.08 mm pitch, color: Black				
MKDS 3/ 2-5,08 HT BK	1985988	50		
MKDS 3/ 3-5,08 HT BK	1985991	50		

Drilling diagram



Type	Order No.	Pcs. / Pkt.	
Headers, 5.08 mm pitch, color: Black			
ZFKDS 2,5-5,08 THT	1990245	50	
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is desired			
ZFKDS 2,5-5,08 L THT	1990261	50	
End terminal block, 6.08 mm wide, nec row of terminal blocks (right)	essary at the	end of a	
ZFKDSA 2,5-6,08 R THT	1990258	50	

Ordering data

Horizontal or vertical conductor connection up to 1.5 mm²



- Push-in direct plug-in technology for solid or stranded conductors
- Suitable for use in SMT reflow processes
- Horizontal and vertical design with
 3.5 mm and 3.81 mm pitch
- Two solder pins for a high level of stability on the PCB
- Standard pin length of 2.6 mm also suitable for wave soldering processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting in the reflow process with pin length of 2.0 mm

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

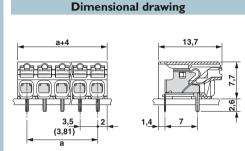
1) Current carrying capacity curve upon request.

2) UL/CUL on request.

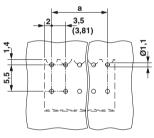


Pin length of 2.6 mm, box-packaged PCB terminal blocks, connection direction horizontal to the PCB

Accessories				
For all types	Type Screwdriver SZS 0,4 x 2,5 Order No. 1205037	Page		
	Ferrules with and without plastic sleeve	834		
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034			
_/\				



Drilling diagram



Technical data	
i cennicui data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[//]
lated insulation voltage for politition degree 2	[4]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm ²] /	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
nsulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	[mm]
11 0 0	[mm]

	13.51) / 1.5		
	160		
	3.5 / 3.81		
0.2 - 1.	5 / 0.2 - 1.5 /	24 - 16	
	0.2 - 1.5		
	0.2 - 0.75		
	,		
	-/-		
	-		
	-		
III. / O	III / O	11.70	
160	III / 2 160	II / 2 320	
2.5	2.5	2.5	
2.5 B	2.5 C	2.5 D	
Ь			
	-	-	
	-	-	
В	С	D	
-	-	-	
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	8		
	LCP / IIIa		
	V0		
1.1 / 0.7 x 0.3			

Pkt.
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Pin length of 2.6 mm, box-packaged PCB terminal blocks, connection direction vertical to the PCB

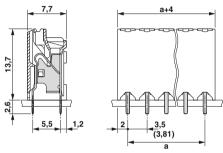


Pin length of 2.0 mm, taped PCB terminal blocks, connection direction horizontal to the PCB

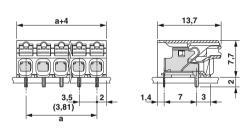


Pin length of 2.0 mm, taped PCB terminal blocks, connection direction vertical to the PCB

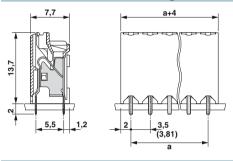
Dimensional drawing



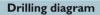
Dimensional drawing



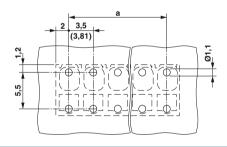
Dimensional drawing

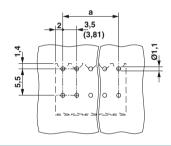


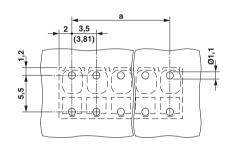
Drilling diagram



Drilling diagram







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.5 mm, color: Black				
SPT-THR 1,5/ 2-V-3,5 P26	1822312	540		
SPT-THR 1,5/ 3-V-3,5 P26	1822325	350		
SPT-THR 1,5/ 4-V-3,5 P26	1822338	250		
SPT-THR 1,5/ 5-V-3,5 P26	1822341	220		
SPT-THR 1,5/ 6-V-3,5 P26	1822354	190		
SPT-THR 1,5/ 7-V-3,5 P26	1822367	160		
SPT-THR 1,5/ 8-V-3,5 P26	1822370	120		
SPT-THR 1,5/ 9-V-3,5 P26	1822383	120		
SPT-THR 1,5/10-V-3,5 P26	1822396	90		
SPT-THR 1,5/11-V-3,5 P26	1822406	90		
SPT-THR 1,5/12-V-3,5 P26	1822419	90		
3.81 mm pitch, color: Black				
SPT-THR 1,5/ 2-V-3,81 P26	1822422	510		
SPT-THR 1,5/ 3-V-3,81 P26	1822435	350		
SPT-THR 1,5/ 4-V-3,81 P26	1822448	250		
SPT-THR 1,5/ 5-V-3,81 P26	1822451	190		
SPT-THR 1,5/ 6-V-3,81 P26	1822464	160		
SPT-THR 1,5/ 7-V-3,81 P26	1822477	120		
SPT-THR 1,5/ 8-V-3,81 P26	1822480	120		
SPT-THR 1,5/ 9-V-3,81 P26	1822493	90		
SPT-THR 1,5/10-V-3,81 P26	1822503	90		
SPT-THR 1,5/11-V-3,81 P26	1822516	90		
SPT-THR 1,5/12-V-3,81 P26	1822529	60		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.5 mm, color: Black				
SPT-THR 1,5/ 2-H-3,5 P20 R24	1823638	250		
SPT-THR 1,5/ 3-H-3,5 P20 R32	1823641	250		
SPT-THR 1,5/ 4-H-3,5 P20 R32	1823654	250		
SPT-THR 1,5/ 5-H-3,5 P20 R32	1823667	250		
SPT-THR 1,5/ 6-H-3,5 P20 R44	1823670	250		
SPT-THR 1,5/ 7-H-3,5 P20 R44	1823683	250		
SPT-THR 1,5/8-H-3,5 P20 R44	1823696	250		
SPT-THR 1,5/ 9-H-3,5 P20 R72	1823706	250		
SPT-THR 1,5/10-H-3,5 P20 R72	1823719	250		
SPT-THR 1,5/11-H-3,5 P20 R72	1823722	250		
SPT-THR 1,5/12-H-3,5 P20 R72	1823735	250		
3.81 mm pitch, color: Black				
SPT-THR 1,5/ 2-H-3,81 P20 R24	1823748	250		
SPT-THR 1,5/ 3-H-3,81 P20 R32	1823751	250		
SPT-THR 1,5/ 4-H-3,81 P20 R32	1823764	250		
SPT-THR 1,5/ 5-H-3,81 P20 R32	1823777	250		
SPT-THR 1,5/6-H-3,81 P20 R44	1823780	250		
SPT-THR 1,5/ 7-H-3,81 P20 R44	1823793	250		
SPT-THR 1,5/8-H-3,81 P20 R44	1823803	250		
SPT-THR 1,5/ 9-H-3,81 P20 R72	1823816	250		
SPT-THR 1,5/10-H-3,81 P20 R72	1823829	250		
SPT-THR 1,5/11-H-3,81 P20 R72	1823832	250		
SPT-THR 1,5/12-H-3,81 P20 R72	1823845	250		

	Ordering data				
	Туре	Order No.	Pcs. / Pkt.		
	Pitch 3.5 mm, color: Black				
	SPT-THR 1,5/ 2-V-3,5 P20 R24	1823191	180		
	SPT-THR 1,5/ 3-V-3,5 P20 R24	1823201	180		
	SPT-THR 1,5/ 4-V-3,5 P20 R44	1823214	180		
	SPT-THR 1,5/ 5-V-3,5 P20 R44	1823227	180		
	SPT-THR 1,5/ 6-V-3,5 P20 R44	1823230	180		
	SPT-THR 1,5/ 7-V-3,5 P20 R44	1823243	180		
	SPT-THR 1,5/ 8-V-3,5 P20 R72	1823256	180		
	SPT-THR 1,5/ 9-V-3,5 P20 R72	1823269	180		
	SPT-THR 1,5/10-V-3,5 P20 R72	1823272	180		
	SPT-THR 1,5/11-V-3,5 P20 R72	1823285	180		
	SPT-THR 1,5/12-V-3,5 P20 R72	1823298	180		
	3.81 mm pitch, color: Black				
	SPT-THR 1,5/ 2-V-3,81 P20 R24	1823308	180		
	SPT-THR 1,5/ 3-V-3,81 P20 R24	1823311	180		
	SPT-THR 1,5/ 4-V-3,81 P20 R44	1823324	180		
	SPT-THR 1,5/ 5-V-3,81 P20 R44	1823337	180		
	SPT-THR 1,5/ 6-V-3,81 P20 R44	1823340	180		
	SPT-THR 1,5/ 7-V-3,81 P20 R44	1823353	180		
	SPT-THR 1,5/ 8-V-3,81 P20 R72	1823366	180		
	SPT-THR 1,5/ 9-V-3,81 P20 R72	1823379	180		
	SPT-THR 1,5/10-V-3,81 P20 R72	1823382	180		
•	SPT-THR 1,5/11-V-3,81 P20 R72	1823395	180		
•	SPT-THR 1,5/12-V-3,81 P20 R72	1823405	180		

Horizontal and vertical conductor connection up to 1.5 mm²



- Push-in direct plug-in technology for solid or stranded conductors
- Suitable for use in SMT reflow processes
- Horizontal and vertical design with 5.0 mm and 5.08 mm pitch
- Two solder pins for a high level of stability on the PCB
- Standard pin length of 2.6 mm also suitable for wave soldering processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting in the reflow process with pin length of 2.0 mm

Notes:

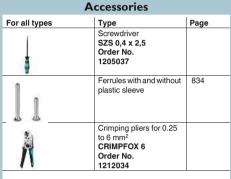
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

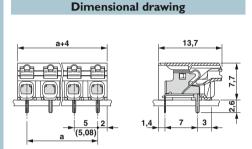
1) Current carrying capacity curve upon request.

2) UL/CUL on request.

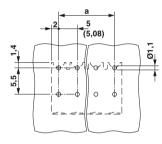


Pin length of 2.6 mm, box-packaged PCB terminal blocks, connection direction horizontal to the PCB





Drilling diagram



Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]		13.5 ¹) / 1.5	5
Rated insulation voltage for pollution degree 2	[V]		320	
Pitch	[mm]		5 / 5.08	
Connection capacity	. ,			
	mm ²]/[mm ²]/AWG	0.2 - 1.	5 / 0.2 - 1.5	/ 24 - 10
Stranded with ferrules without plastic sleeve	[mm ²]		0.2 - 1.5	
Stranded with ferrules with plastic sleeve	[mm²]		0.2 - 0.75	
Multi-conductor connection capacity (two conductors with t	he same cross section)			
Solid / stranded	[mm ²]		-/-	
Stranded with ferrules without plastic sleeve	[mm²]		-	
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		-	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11 / 2
Rated insulation voltage	[V]	250	320	500
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]		8	
Type of insulation material / insulation material	group		LCP / IIIa	
Inflammability class according to UL 94			V0	
Drill hole diameter / pin dimensions	[mm]	1.1	1 / 0.7 x 0.3	mm

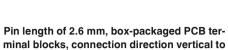
		Ordering data		
		Type	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 5.0 mm, color: Black		
2	5.00	SPT-THR 1,5/ 2-H-5,0 P26	1822972	300
3	10.00	SPT-THR 1,5/ 3-H-5,0 P26	1822985	190
4	15.00	SPT-THR 1,5/ 4-H-5,0 P26	1822998	130
5	20.00	SPT-THR 1,5/ 5-H-5,0 P26	1823007	110
6	25.00	SPT-THR 1,5/ 6-H-5,0 P26	1823010	80
7	30.00	SPT-THR 1,5/ 7-H-5,0 P26	1823023	60
8	35.00	SPT-THR 1,5/ 8-H-5,0 P26	1823036	60
9	40.00	SPT-THR 1,5/ 9-H-5,0 P26	1823049	40
10	45.00	SPT-THR 1,5/10-H-5,0 P26	1823052	40
11	50.00	SPT-THR 1,5/11-H-5,0 P26	1823065	40
12	55.00	SPT-THR 1,5/12-H-5,0 P26	1823078	40
		Headers, 5.08 mm pitch, color: Black		
2	5.08	SPT-THR 1,5/ 2-H-5,08 P26	1823081	300
3	10.16	SPT-THR 1,5/ 3-H-5,08 P26	1823094	190
4	15.24	SPT-THR 1,5/ 4-H-5,08 P26	1823104	130
5	30.32	SPT-THR 1,5/ 5-H-5,08 P26	1823117	110
6	25.40	SPT-THR 1,5/ 6-H-5,08 P26	1823120	80
7	30.48	SPT-THR 1,5/ 7-H-5,08 P26	1823133	60
8	35.56	SPT-THR 1,5/ 8-H-5,08 P26	1823146	60
9	40.64	SPT-THR 1,5/ 9-H-5,08 P26	1823159	40
10	45.72	SPT-THR 1,5/10-H-5,08 P26	1823162	40
11	50.80	SPT-THR 1,5/11-H-5,08 P26	1823175	40
12	55.88	SPT-THR 1,5/12-H-5,08 P26	1823188	40











the PCB

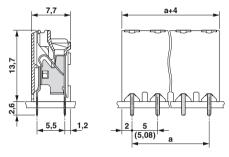


Pin length of 2.0 mm, taped PCB terminal blocks, connection direction horizontal to the PCB

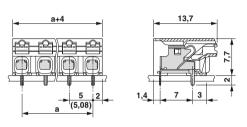


Pin length of 2.0 mm, taped PCB terminal blocks, connection direction vertical to the PCB

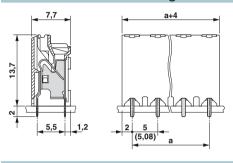
Dimensional drawing



Dimensional drawing



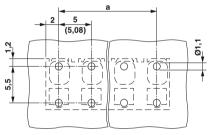
Dimensional drawing

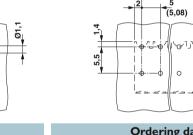


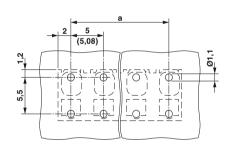
Drilling diagram

Drilling diagram

Drilling diagram







Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
SPT-THR 1,5/ 2-V-5,0 P26	1822532	440
SPT-THR 1,5/ 3-V-5,0 P26	1822545	280
SPT-THR 1,5/ 4-V-5,0 P26	1822558	190
SPT-THR 1,5/ 5-V-5,0 P26	1822561	160
SPT-THR 1,5/ 6-V-5,0 P26	1822574	120
SPT-THR 1,5/ 7-V-5,0 P26	1822587	90
SPT-THR 1,5/ 8-V-5,0 P26	1822590	90
SPT-THR 1,5/ 9-V-5,0 P26	1822600	60
SPT-THR 1,5/10-V-5,0 P26	1822613	60
SPT-THR 1,5/11-V-5,0 P26	1822626	60
SPT-THR 1,5/12-V-5,0 P26	1822639	60
Headers, 5.08 mm pitch, color: Black		
SPT-THR 1,5/ 2-V-5,08 P26	1822642	440
SPT-THR 1,5/ 3-V-5,08 P26	1822655	280
SPT-THR 1,5/ 4-V-5,08 P26	1822668	190
SPT-THR 1,5/ 5-V-5,08 P26	1822671	160
SPT-THR 1,5/ 6-V-5,08 P26	1822684	120
SPT-THR 1,5/ 7-V-5,08 P26	1822697	90
SPT-THR 1,5/ 8-V-5,08 P26	1822707	90
SPT-THR 1,5/ 9-V-5,08 P26	1822710	60
SPT-THR 1,5/10-V-5,08 P26	1822723	60
SPT-THR 1,5/11-V-5,08 P26	1822736	60
SPT-THR 1,5/12-V-5,08 P26	1822749	60

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 5.0 mm, color: Black			
SPT-THR 1,5/ 2-H-5,0 P20 R24	1823858	250	
SPT-THR 1,5/ 3-H-5,0 P20 R32	1823861	250	
SPT-THR 1,5/ 4-H-5,0 P20 R32	1823874	250	
SPT-THR 1,5/ 5-H-5,0 P20 R56	1823887	250	
SPT-THR 1,5/ 6-H-5,0 P20 R56	1823890	250	
SPT-THR 1,5/ 7-H-5,0 P20 R56	1823900	250	
SPT-THR 1,5/ 8-H-5,0 P20 R56	1823913	250	
SPT-THR 1,5/ 9-H-5,0 P20 R88	1823926	250	
SPT-THR 1,5/10-H-5,0 P20 R88	1823939	250	
SPT-THR 1,5/11-H-5,0 P20 R88	1823942	250	
SPT-THR 1,5/12-H-5,0 P20 R88	1823955	250	
Headers, 5.08 mm pitch, color: Black			
SPT-THR 1,5/ 2-H-5,08 P20 R24	1823968	250	
SPT-THR 1,5/ 3-H-5,08 P20 R32	1823971	250	
SPT-THR 1,5/ 4-H-5,08 P20 R32	1823984	250	
SPT-THR 1,5/ 5-H-5,08 P20 R56	1823997	250	
SPT-THR 1,5/ 6-H-5,08 P20 R56	1824006	250	
SPT-THR 1,5/ 7-H-5,08 P20 R56	1824019	250	
SPT-THR 1,5/ 8-H-5,08 P20 R56	1824022	250	
SPT-THR 1,5/ 9-H-5,08 P20 R88	1824035	250	
SPT-THR 1,5/10-H-5,08 P20 R88	1824048	250	
SPT-THR 1,5/11-H-5,08 P20 R88	1824051	250	
SPT-THR 1.5/12-H-5.08 P20 R88	1824064	250	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 5.0 mm, color: Black			
SPT-THR 1,5/ 2-V-5,0 P20 R24	1823418	180	
SPT-THR 1,5/ 3-V-5,0 P20 R32	1823421	180	
SPT-THR 1,5/ 4-V-5,0 P20 R56	1823434	180	
SPT-THR 1,5/ 5-V-5,0 P20 R56	1823447	180	
SPT-THR 1,5/ 6-V-5,0 P20 R56	1823450	180	
SPT-THR 1,5/ 7-V-5,0 P20 R56	1823463	180	
SPT-THR 1,5/ 8-V-5,0 P20 R88	1823476	180	
SPT-THR 1,5/ 9-V-5,0 P20 R88	1823489	180	
SPT-THR 1,5/10-V-5,0 P20 R88	1823492	180	
SPT-THR 1,5/11-V-5,0 P20 R88	1823502	180	
SPT-THR 1,5/12-V-5,0 P20 R88	1823515	180	
Headers, 5.08 mm pitch, color: Black			
SPT-THR 1,5/ 2-V-5,08 P20 R24	1823528	180	
SPT-THR 1,5/ 3-V-5,08 P20 R32	1823531	180	
SPT-THR 1,5/ 4-V-5,08 P20 R56	1823544	180	
SPT-THR 1,5/ 5-V-5,08 P20 R56	1823557	180	
SPT-THR 1,5/ 6-V-5,08 P20 R56	1823560	180	
SPT-THR 1,5/ 7-V-5,08 P20 R56	1823573	180	
SPT-THR 1,5/ 8-V-5,08 P20 R88	1823586	180	
SPT-THR 1,5/ 9-V-5,08 P20 R88	1823599	180	
SPT-THR 1,5/10-V-5,08 P20 R88	1823609	180	
SPT-THR 1,5/11-V-5,08 P20 R88	1823612	180	
SPT-THR 1,5/12-V-5,08 P20 R88	1823625	180	

PCB terminal blocks with screw connection for the reflow process, currents of up to 24 A

SMD PCB terminal blocks with a connection cross section of up to 1.5 mm²



- Application in SMT reflow processes
- Standard types of PCB terminal blocks made of high-temperature resistant plastics
- Type of packing: tube magazine
- Box packaging or tape-on-reel packing in accordance with IEC 60286-3 for automatic assembly on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

B 2,2 x 6,5, ISO 7049/DIN ISO 7049 fixing screw is supplied as standard. Insertion hole: 2.6 mm, soldering tag: 2.5 x 1.2 mm

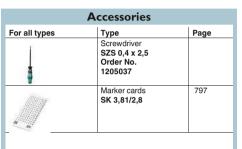
When ordering, please note the number of pieces per unit pack. For production reasons, only fully filled tube magazines can be supplied

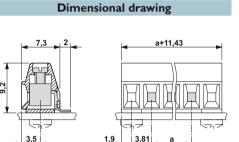
1) Current carrying capacity curve upon request.



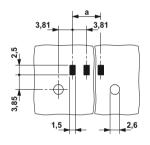
Without housing overlapping, delivery form: tube magazine

D a. 12. D





Drilling diagram

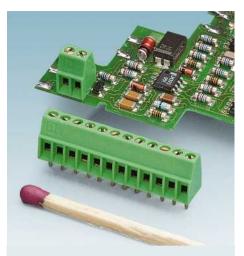


Technical data	a
Technical data in accordance to IEC / DIN V	'DE
Bated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	
nated insulation voltage for politition degree	, z [v]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors w	vith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic slee	ve [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation mater	rial group
Inflammability class according to UL 94	

	81) / 1.5	
	160	
	3.81	
0.14 - 1	.5 / 0.14 - 1 /	26 - 16
	0.25 - 0.5	
	0.25 - 0.5	
0.14	1 - 0.5 / 0.14 -	0.2
	•	
	-	
III/3	III / 2	11/2
160	160	250
2.5	2.5	2.5
В	С	D
300	•	300
10	-	10
30 - 16	-	30 - 16
В	С	D
150	-	300
10	-	10
28 - 16	-	28 - 16
	-	
· 	5	
-	M2	
	0.22 - 0.25	
	PA-F/IIIa	
	V0	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	3.81 mm pitch, color: Black		
2	3.81	MKDS 1/2-3,81 SMD BK	1727230	35
3	7.62	MKDS 1/ 3-3,81 SMD BK	1727243	28
4	11.43	MKDS 1/ 4-3,81 SMD BK	1727256	23
5	15.24	MKDS 1/5-3,81 SMD BK	1727269	20
6	19.05	MKDS 1/6-3,81 SMD BK	1727272	17
7	22.86	MKDS 1/7-3,81 SMD BK	1727285	15
8	26.67	MKDS 1/8-3,81 SMD BK	1727175	14
9	30.48	MKDS 1/9-3,81 SMD BK	1727298	12
10	34.29	MKDS 1/10-3,81 SMD BK	1727308	11
11	38.10	MKDS 1/11-3,81 SMD BK	1727311	10
12	41.91	MKDS 1/12-3,81 SMD BK	1727324	10

Connection cross section of up to 0.5 mm²



- MICRO PCB terminal block with 2.54 mm pitch
- Single-row type with horizontal connection direction
- Application in miniature assemblies with high contact density

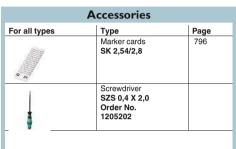
Notes:

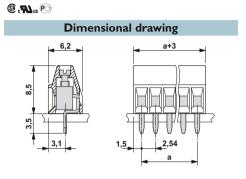
The 2 and 3-pos. versions have a locating pin (1.5 mm long) to support the mechanical load.

For drilling diagram and dimensional drawing for MPT 0,5/...2,54, 2 to 3-pos, see page 838.



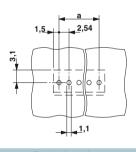
MICRO PCB terminal block with 2.54 mm pitch





Drilling diagram

4 to 12-pos. variants



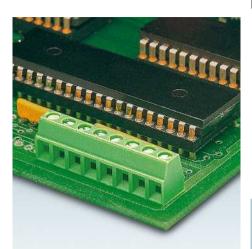
Technical data	
Tankai adalah inggan dan adalah IEO (DINI) (D	
Technical data in accordance to IEC / DIN VD	_
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm2] / [mm2] / AWG
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	h the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation materia	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	6/0.5	
	160	
	100	
-	2.54	
	/ 0.14 - 0.5	
	0.25 - 0.34	
	0.25 - 0.34	
0.14 -	0.34 / 0.14	- 0.34
	-	
	-	
III/3	III/2	11/2
63	160	320
1.5	1.5	2.5
В	С	D
125	-	-
6	-	-
30 - 20	-	
В	С	D
125	-	-
6	-	-
28 - 20	-	-
	4.5	
	M1,6	
	0.12 - 0.15	
	PA/I	
	V0	
1.1 / 0.5 x 0.9 mm		

No. of pos.	Dim. a [mm]
2	2.54
3	5.08
4	7.62
5	10.16
6	12.70
7	15.24
8	17.78
9	20.32
10	22.86
11	25.40
12	27.94

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 2.54 mm, color: green		
MPT 0,5/ 2-2,54	1725656	250
MPT 0,5/ 3-2,54	1725669	250
MPT 0,5/ 4-2,54	1725672	250
MPT 0,5/ 5-2,54	1725685	250
MPT 0,5/ 6-2,54	1725698	100
MPT 0,5/ 7-2,54	1725708	100
MPT 0,5/ 8-2,54	1725711	100
MPT 0,5/ 9-2,54	1725724	100
MPT 0,5/10-2,54	1725737	100
MPT 0,5/11-2,54	1725740	50
MPT 0,5/12-2,54	1725753	50

Connection cross section of up to 1.5 mm²



 PCB terminal blocks with extremely compact housing dimensions with 3.5 or 3.81 mm pitch

MKDS 1/...

Single-row type with horizontal connection direction

SMKDS 1/...

- Conductor and screwdriver axis at an angle of 55° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

MKKDS 1/...

- Double-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

Notes:

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 3.5 mm pitch

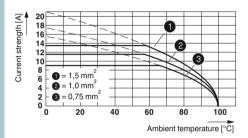


Detection lug for models with 3.81 mm inch pitch

Accessories		
For all types	Туре	Page
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
4	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	

Current carrying capacity curve

Type: MKDS 1/5-3,5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions = 5

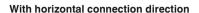


Technical data	a
Technical data in accordance to IEC / DIN V	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors w	rith the same cross section)
Solid / stranded	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation mater	ial group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	MKDS 1/			S	MKDS 1/		M	KKDS 1/		
		13.51) / 1.5	5		10 ¹) / 1.5			81) / 1.5		
]		200			200			200		
_		0 = 10 01			0.5./0.04					
		3.5 / 3.81			3.5 / 3.81			3.5 / 3.81		
	044.45		F / 00 . 40	044.4	E / O . 4 . 4	100 10	044.4	- / 0 - 4 - 4	100 10	
-	0.14 - 1.5	0.25 - 0.5	5 / 26 - 16	0.14 - 1.	5 / 0.14 - 1 0.25 - 0.5			5 / 0.14 - 1 0.25 - 0.5		
L	-	0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
		0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
	0 14 -	0.5 / 0.14	- 0.34	0.14	- 0.5 / 0.14	1-02	0.14	- 0.5 / 0.14	1-02	
	0.14	0.07 0.14	0.04	0.14	0.07 0.1-	· 0.2	0.14	0.07 0.1-	V 0.L	
	III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	11/2	
]	160	200	400	160	200	400	160	200	400	
]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
)	В	С	D	В	С	D	В	С	D	
]	300	-	300	300	-	300	300	-	300	
L	10	-	10	10	-	10	10	-	10	
i	30 - 16	-	30 - 16	30 - 16	-	30 - 16	30 - 16	-	30 - 16	
)	В	С	D	В	С	D	В	С	D	
	150	-	300	150	-	300	150	-	300	
L	10	-	10	10	-	10	10	-	10	
i	28 - 16	-	28 - 16	28 - 16	-	28 - 16	28 - 16	-	28 - 16	
L		5			5			5		
_	M2				M2			M2	_	
L		0.22 - 0.25	<u> </u>		0.22 - 0.25	5		0.22 - 0.25)	
_		PA/I V0		-	PA/I PA/I					
_		/ 0.5 x 0.9	mm		V0 / 0.5 x 0.9	mm	- 11	V0 1.1 / 0.5 x 0.9 mm		
_	1.1	/ U.S X U.9	111111		/ U.S X U.9	111111		0.5 X 0.9	111111	

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91







With 55° angled connection direction

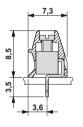
Dimensional drawing

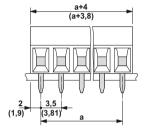


Double-level PCB terminal block with offset levels

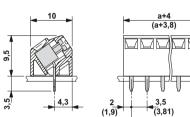


Dimensional drawing

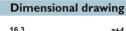


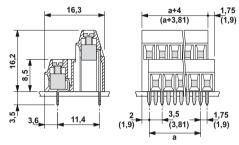


CCA CB



© SNus @ SEE CCA CB.

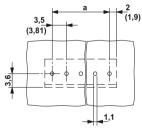


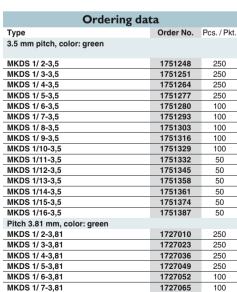


Drilling diagram

Drilling diagram

Drilling diagram





1727078

1727081

1727094

1727104

1727117

100

100

100

50

50

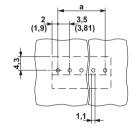
MKDS 1/8-3,81

MKDS 1/9-3,81

MKDS 1/10-3,81

MKDS 1/11-3,81

MKDS 1/12-3,81

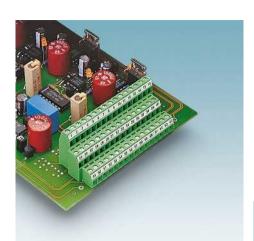


Ordering data					
Туре	Order No.	Pcs. / Pkt.			
3.5 mm pitch, color: green					
SMKDS 1/ 2-3,5	1751099	250			
SMKDS 1/ 3-3,5	1751109	250			
SMKDS 1/ 4-3,5	1751112	250			
SMKDS 1/ 5-3,5	1751125	100			
SMKDS 1/ 6-3,5	1751138	100			
SMKDS 1/ 7-3,5	1751141	100			
SMKDS 1/ 8-3,5	1751154	100			
SMKDS 1/ 9-3,5	1751167	100			
SMKDS 1/10-3,5	1751170	100			
SMKDS 1/11-3,5	1751183	50			
SMKDS 1/12-3,5	1751196	50			
SMKDS 1/13-3,5	1751206	50			
SMKDS 1/14-3,5	1751219	50			
SMKDS 1/15-3,5	1751222	50			
SMKDS 1/16-3,5	1751235	50			
Pitch 3.81 mm, color: green					
SMKDS 1/ 2-3,81	1728284	250			
SMKDS 1/ 3-3,81	1728297	250			
SMKDS 1/ 4-3,81	1728307	250			
SMKDS 1/5-3,81	1728310	100			
SMKDS 1/ 6-3,81	1728323	100			
SMKDS 1/7-3,81	1728336	100			
SMKDS 1/8-3,81	1728349	100			
SMKDS 1/ 9-3,81	1728352	100			
SMKDS 1/10-3,81	1728365	100			
SMKDS 1/11-3,81	1728378	50			
SMKDS 1/12-3,81	1728381	50			

	a	
2	3,5	1,75
(1,9) 2	(3,81)	(1,9)
3,6		1,1

	Ordering date	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	3.5 mm pitch, color: green		
	MKKDS 1/ 2-3,5	1751390	50
	MKKDS 1/ 3-3,5	1751400	50
	MKKDS 1/ 4-3,5	1751413	50
_	MKKDS 1/ 5-3,5	1751426	50
	MKKDS 1/ 6-3,5	1751439	50
	MKKDS 1/ 7-3,5	1751442	50
	MKKDS 1/ 8-3,5	1751455	50
	MKKDS 1/ 9-3,5	1751468	50
_	MKKDS 1/10-3,5	1751471	50
_	MKKDS 1/11-3,5	1751484	50
_	MKKDS 1/12-3,5	1751497	50
_	MKKDS 1/13-3,5	1751507	50
	MKKDS 1/14-3,5	1751510	50
_	MKKDS 1/15-3,5	1751523	50
_	MKKDS 1/16-3,5	1751536	50
	Pitch 3.81 mm, color: green		
	MKKDS 1/ 2-3,81	1708026	50
_	MKKDS 1/ 3-3,81	1708039	50
_	MKKDS 1/ 4-3,81	1708042	50
	MKKDS 1/ 5-3,81	1708055	50
_	MKKDS 1/ 6-3,81	1708068	50
_	MKKDS 1/ 7-3,81	1708071	50
	MKKDS 1/ 8-3,81	1708084	50
_	MKKDS 1/ 9-3,81	1708107	50
	MKKDS 1/10-3,81	1708110	50
	MKKDS 1/11-3,81	1708123	50
	MKKDS 1/12-3,81	1708136	50

Connection cross section of up to 1.5 mm²



- PCB terminal blocks with extremely compact housing dimensions with 3.5 or 3.81 mm pitch

MK3DS 1/...

- Three-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

SMKDS 1,5/...

- Conductor and screwdriver axis at an angle of 55° to the PCB
- An arrangement of several terminal block rows one behind the other multi-level effect with the same design

MKDSFW 1,5/...

- Horizontal series with vertical connection direction to the PCB

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

For dimensional drawing and drilling diagram of 2 and 3-pos. MKDSFW 1,5/...-3,5, see page 838.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 3.5 mm pitch

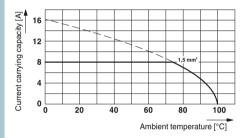


Detection lug for models with 3.81 mm inch pitch

Accessories						
For all types	Туре	Page				
a .	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797				
\$	Screwdriver SZS 0,4 x 2,5 Order No. 1205037					

Current carrying capacity curve Type: MK3DS 1/5-3,81

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of pos.:5



Technical data		MK3	DS 1/3	3,81	SMI	KDS 1,5/	3,5	MKD	SFW 1,5/	3,5
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm ²]		81) / 1.5			121) / 1.5			121) / 1.5	
Rated insulation voltage for pollution degree 2	[V]		160			160			160	
Pitch	[mm]		3.81		-	3.5		3.5		
Connection capacity										
Solid / stranded [mm	2] / [mm ²] / AWG	0.14 - 1.	5 / 0.14 - 1	1 / 26 - 16	0.08 - 1.5	7 0.08 - 1.	5/28-16	0.14 - 1.5	0.14 - 1.	5 / 26 - 16
Stranded with ferrules without plastic sleeve	[mm ²]		0.25 - 0.5	i		0.25 - 1.5			0.25 - 1.5	
Stranded with ferrules with plastic sleeve	[mm ²]		0.25 - 0.5	;		0.25 - 1.5			0.25 - 1.5	
Multi-conductor connection capacity (two conductors with the sa	ame cross section)									
Solid / stranded	[mm ²]	0.14	- 0.5 / 0.14	4 - 0.2	0.08	- 0.5 / 0.08	- 0.75	0.14 -	0.75 / 0.14	1 - 0.75
Stranded with ferrules without plastic sleeve	[mm ²]		-		0.25 - 0.34		0.25 - 0.5			
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		-		-		0.5 - 1			
Insulation coordination										
Surge voltage category / pollution degree		III/3	III/2	II / 2	III/3	III/2	11/2	III/3	III/2	11/2
Rated insulation voltage	[V]	160	160	320	160	160	320	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]	300	-	300	250	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 16	-	30 - 16	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]	150	-	300	-	-	-	-	-	-
Nominal current	[A]	10	-	10	-	-	-	-	-	-
Connection capacity AWG	AWG	28 - 16	-	28 - 16	-	-	-	-	-	-
General data										
Stripping length	[mm]		5			7			6	
Screw thread			M2			M2			M2	
Tightening torque [Nm]			0.22 - 0.2	5	0.22 - 0.25		5	0.22 - 0.25		
Type of insulation material / insulation material ground	ıp ap		PA/I			PA/I PA/I				
Inflammability class according to UL 94			V0			V0			V0	
Drill hole diameter / pin dimensions [mm]		1.1	/ 0.5 x 0.9	mm	1.3	1.3 / 0.6 x 1 mm 1.3 / 0.5 x 0.9 mm			mm	

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	31.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91



Three-level PCB terminal block with offset levels, without housing overlapping

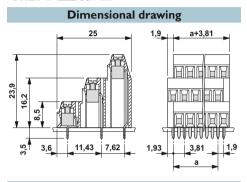


With 55° angled connection direction, with housing overlapping

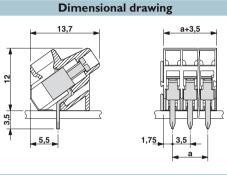


With vertical connection direction and stand-off, without housing overlapping

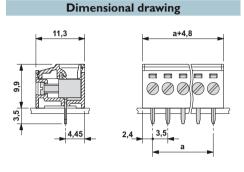




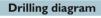
CCA CB



c**91**0 us 🕑

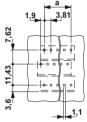


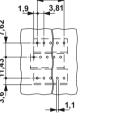
Drilling diagram

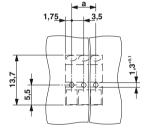


Drilling diagram

The illustration shows the drilling diagram of the 4 to 12-position ver-







	2,4	a ► 3,5	
4,45			
		1,3	

Ordering data						
Туре	Order No.	Pcs. / Pkt.				
Pitch 0.04 mm - class mass						
Pitch 3.81 mm, color: green	4505505	=0				
MK3DS 1/ 2-3,81	1727735	50				
MK3DS 1/ 3-3,81	1727748	50				
MK3DS 1/ 4-3,81	1727751	50				
MK3DS 1/ 5-3,81	1727764	50				
MK3DS 1/ 6-3,81	1727777	50				
MK3DS 1/7-3,81	1727780	50				
MK3DS 1/ 8-3,81	1727793	50				
MK3DS 1/ 9-3,81	1727803	50				
MK3DS 1/10-3,81	1727816	50				
MK3DS 1/11-3,81	1727829	50				
MK3DS 1/12-3,81	1727832	50				

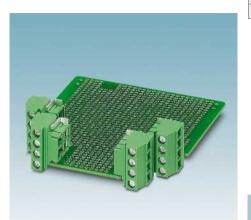
Ordering of	data	
Туре	Order No.	Pcs. / Pkt
3.5 mm pitch, color: green		
SMKDS 1,5/ 2-3,5	1931770	50
SMKDS 1,5/ 3-3,5	1931783	50
		_
		_

Ordering data						
Туре	Order No.	Pcs. / Pkt.				
3.5 mm pitch, color: green						
MKDSFW 1,5/ 2-3,5	1868128	50				
MKDSFW 1,5/ 3-3,5	1868131	50				
MKDSFW 1,5/ 4-3,5	1868144	50				
MKDSFW 1,5/ 5-3,5	1868157	50				
MKDSFW 1,5/ 6-3,5	1868160	50				
MKDSFW 1,5/ 7-3,5	1868173	50				
MKDSFW 1,5/ 8-3,5	1868186	50				
MKDSFW 1,5/ 9-3,5	1868199	50				
MKDSFW 1,5/10-3,5	1868209	50				
MKDSFW 1,5/11-3,5	1868212	50				
MKDSFW 1,5/12-3,5	1868225	50				

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

Connection cross section of up to 1.5 mm²



- PCB terminal block for ME/ME MAX electronic housing
- PCB terminal block is orthogonal to the PCB
- "Left" and "right" design
- Pitch 3.5 mm
- Number of positions between 3 and 5

Notes: 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request. 2) PCB terminal blocks with 5 mm pitch, see page 113.

Accessories			
For all types	Туре	Page	
4.	Marker cards SK 3,5/2,8	797	

lechnical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [r	mm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the	ne same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material g	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDSO	1,5/ 3-L-3,	5 KMGY	MKDSO	1,5/ 3-R-3,	5 KMGY
	81) / 1.5			81) / 1.5	
	160			160	
	3.5		- <u></u>		
	3.5			3.5	
0.14 - 1.6	5 / 0.14 - 1.5	5/29-16	0.14 - 1.5	5 / 0.14 - 1.5	129 - 16
0.14 - 1.0	0.25 - 1.5	7/20-10	0.14 - 1.5	0.25 - 1.5	0/20-10
-	0.25 - 0.5			0.25 - 0.5	
	0.20 0.0			0.20 0.0	
0.08	- 0.5 / 0.08	- 0.75	0.08 -	- 0.5 / 0.08	- 0.75
-	0.25 - 0.34			0.25 - 0.34	
	0.5 - 0.5			0.5 - 0.5	
III/3	III/2	II / 2	III/3	III/2	11/2
160	160	320	160	160	320
2.5	2.5	2.5	2.5	2.5	2.5
В	С	D	В	С	D
-	-	-		-	-
-	-	-		-	-
-	-	-	-	-	-
В	С	D	В	С	D
	-			-	-
	-	-		-	-
-	-	-	-	-	-
	_			_	
	7 M2			7 M2	
	0.22 - 0.25			0.22 - 0.25	
-	PA/I			PA / I	
	V0			V0	
12	! / 0.8 x 0.8 i	mm	12	/ 0.8 x 0.8 i	mm
1.2	. / U.U X U.U I		1.2	, 0.0 x 0.0 i	

No. of pos.	Dim. a [mm]
3	7.00
4	10.50
5	14.00



With "left" solder pins leading off at a right



With "right" solder pins leading off at a right

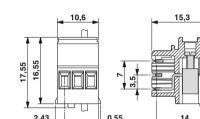
Dimensional drawing



Dimensional drawing



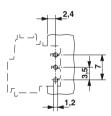
P



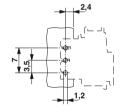
15,3	10,6
	16,55
3,5	7 9 9 9 1 2 1
14	0,55

Drilling diagram

Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
PCB terminal block, left, 3.5 mm pitch, c	olor: light gra	y ²)		
MKDSO 1,5/ 3-L-3,5 KMGY	2278445	50		
MKDSO 1,5/ 4-L-3,5 KMGY	2278432	50		
MKDSO 1,5/ 5-L-3,5 KMGY	2278393	50		



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
PCB terminal block, right, 3.5 mm pitch	h, color: light (gray
MKDSO 1,5/ 3-R-3,5 KMGY	2278458	50
MKDSO 1,5/ 4-R-3,5 KMGY	2278429	50
MKDSO 1,5/ 5-R-3,5 KMGY	2278416	50

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

Connection cross section of up to 1.5 mm²



- PCB terminal blocks with compact housing dimensions and a flat design
- Conductor cross sections up to 1.5 mm²
- 5.0 or 5.08 mm pitch

MKDSN 1,5/...

Single-row type with horizontal connection direction

SMKDSN 1,5/...

- Conductor and screwdriver axis at an angle of 55° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.





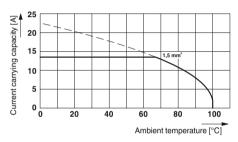


Detection lug for models with 5.08 mm inch pitch

Accessories		
For all types	Туре	Page
	Marker cards SK 5/3,8 orSK 5,08/3,8	798
\$	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP 5	829

Current carrying capacity curve

Type: MKDSN 1,5/5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of pos.:5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm ²	²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the sa	ame cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	-
Tightening torque	[Nm]
Type of insulation material / insulation material grou	ıp
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

M	KDSN 1,5/		SM	IKDSN 1,5	i/	
	13.5 ¹) / 1.5	5		13.5¹) / 1.5		
	400		400			
E / E 00						
5 / 5.08		5 / 5.08				
014 15	7014 1	F / OC 10	0 14 1 5	/014 1	F / OC 10	
0.14 - 1.5	0.14 - 1.5 0.25 - 1	5/20-10	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16		0/20-10	
	0.25 - 1.5		-	0.25 - 1.5 0.25 - 1.5		
	0.25 - 1.5			0.25 - 1.5		
0.14 -	0.75 / 0.14	I - O 75	0.14 -	0.75 / 0.14	- 0.75	
0.14	0.25 - 0.5		0.14	0.25 - 0.5	- 0.75	
	0.5 - 0.75			0.5 - 1		
	0.0 0.70			0.0 1		
III/3	III/2	II/2	III/3	III/2	11/2	
250	400	630	250	400	630	
4	4	4	4	4	4	
В	С	D	В	С	D	
300	-	300	300	-	300	
10	-	10	10	-	10	
30 - 14	-	30 - 14	30 - 14	-	30 - 14	
В	С	D	В	С	D	
150	-	300	150	-	300	
10	-	10	10	-	10	
28 - 14	-	28 - 14	28 - 14	-	28 - 14	
	6			6		
	M3		M3			
	0.5 - 0.6			0.5 - 0.6		
	PA/I		PA/I			
V0 1.3 / 0.5 x 1 mm		V0				
1.3	3 / U.5 x 1 r	nm	1.3	3 / 0.5 x 1 r	nm	

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20





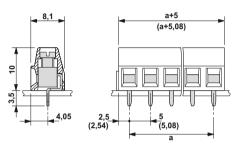


With 55° angled connection direction, without housing overlapping

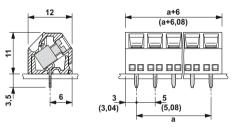






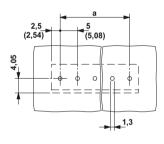


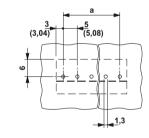
Dimensional drawing



Drilling diagram

Drilling diagram

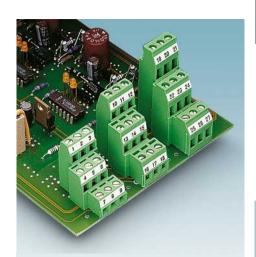




	ata	
Туре	Order No.	Pcs. / Pk
5.0 mm pitch, color: green		
MKDSN 1,5/ 2	1729018	250
MKDSN 1,5/3	1729021	250
MKDSN 1,5/ 4	1729034	250
MKDSN 1,5/ 5	1729047	250
MKDSN 1,5/6	1729050	100
MKDSN 1,5/7	1729063	100
MKDSN 1,5/8	1729076	100
MKDSN 1,5/ 9	1729089	100
MKDSN 1,5/10	1729092	100
MKDSN 1,5/11	1729102	50
MKDSN 1,5/12	1729115	50
5.08 mm nitch color: green		
5.08 mm pitch, color: green MKDSN 1.5/ 2-5.08	1729128	250
MKDSN 1,5/ 2-5,08	1729128 1729131	250 250
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08		
MKDSN 1,5/ 2-5,08	1729131	250
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 4-5,08	1729131 1729144	250 250
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 4-5,08 MKDSN 1,5/ 5-5,08	1729131 1729144 1729157	250 250 250
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 4-5,08 MKDSN 1,5/ 5-5,08 MKDSN 1,5/ 6-5,08	1729131 1729144 1729157 1729160	250 250 250 250 100
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 4-5,08 MKDSN 1,5/ 5-5,08 MKDSN 1,5/ 6-5,08 MKDSN 1,5/ 7-5,08	1729131 1729144 1729157 1729160 1729173	250 250 250 250 100
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 4-5,08 MKDSN 1,5/ 5-5,08 MKDSN 1,5/ 6-5,08 MKDSN 1,5/ 7-5,08 MKDSN 1,5/ 8-5,08	1729131 1729144 1729157 1729160 1729173 1729186	250 250 250 250 100 100
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 4-5,08 MKDSN 1,5/ 5-5,08 MKDSN 1,5/ 6-5,08 MKDSN 1,5/ 7-5,08 MKDSN 1,5/ 8-5,08 MKDSN 1,5/ 9-5,08	1729131 1729144 1729157 1729160 1729173 1729186 1729199	250 250 250 250 100 100 100
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 4-5,08 MKDSN 1,5/ 5-5,08 MKDSN 1,5/ 6-5,08 MKDSN 1,5/ 7-5,08 MKDSN 1,5/ 9-5,08 MKDSN 1,5/ 9-5,08 MKDSN 1,5/ 9-5,08	1729131 1729144 1729157 1729160 1729173 1729186 1729199 1729209	250 250 250 250 100 100 100 100
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 5-5,08 MKDSN 1,5/ 6-5,08 MKDSN 1,5/ 7-5,08 MKDSN 1,5/ 7-5,08 MKDSN 1,5/ 8-5,08 MKDSN 1,5/ 8-5,08 MKDSN 1,5/ 9-5,08 MKDSN 1,5/10-5,08 MKDSN 1,5/10-5,08	1729131 1729144 1729157 1729160 1729173 1729186 1729199 1729209 1729212	250 250 250 250 100 100 100 100 100 50
MKDSN 1,5/ 2-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 3-5,08 MKDSN 1,5/ 5-5,08 MKDSN 1,5/ 6-5,08 MKDSN 1,5/ 7-5,08 MKDSN 1,5/ 7-5,08 MKDSN 1,5/ 8-5,08 MKDSN 1,5/ 8-5,08 MKDSN 1,5/ 9-5,08 MKDSN 1,5/10-5,08 MKDSN 1,5/10-5,08	1729131 1729144 1729157 1729160 1729173 1729186 1729199 1729209 1729212	250 250 250 250 100 100 100 100 100 50

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
SMKDSN 1,5/ 2	1869062	250		
SMKDSN 1,5/ 3	1869075	250		
SMKDSN 1,5/ 4	1869088	250		
SMKDSN 1,5/ 5	1869091	100		
SMKDSN 1,5/ 6	1869101	100		
SMKDSN 1,5/ 7	1869114	100		
SMKDSN 1,5/8	1869127	100		
SMKDSN 1,5/ 9	1869130	100		
SMKDSN 1,5/10	1869143	100		
SMKDSN 1,5/11	1869156	50		
SMKDSN 1,5/12	1869169	50		
SMKDSN 1,5/13	1869172	50		
SMKDSN 1,5/14	1869185	50		
SMKDSN 1,5/15	1869198	50		
SMKDSN 1,5/16	1869208	50		
5.08 mm pitch, color: green				
SMKDSN 1,5/ 2-5,08	1869211	250		
SMKDSN 1,5/ 3-5,08	1869224	250		
SMKDSN 1,5/ 4-5,08	1869237	250		
SMKDSN 1,5/ 5-5,08	1869240	100		
SMKDSN 1,5/ 6-5,08	1869253	100		
SMKDSN 1,5/ 7-5,08	1869266	100		
SMKDSN 1,5/ 8-5,08	1869279	100		
SMKDSN 1,5/ 9-5,08	1869282	100		
SMKDSN 1,5/10-5,08	1869295	100		
SMKDSN 1,5/11-5,08	1869305	50		
SMKDSN 1,5/12-5,08	1869318	50		
SMKDSN 1,5/13-5,08	1869321	50		
SMKDSN 1,5/14-5,08	1869334	50		
SMKDSN 1,5/15-5,08	1869347	50		
SMKDSN 1,5/16-5,08	1869350	50		

Connection cross section of up to 1.5 mm²



- Compact housing dimensions and lowprofile design
- Conductor cross sections up to 1.5 mm²
- 5.0 or 5.08 mm pitch

MKKDSN 1,5/...

- Double-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

MKKDSNH 1,5/...

- Single-row type, back level of the double-level PCB terminal block

MK3DSN 1,5/...

- Three-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



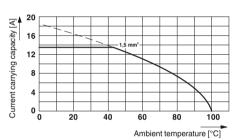


Metric 5 mm pitch

Accessories				
For all types	Туре	Page		
	Marker cards SK 5/3,8 orSK 5,08/3,8	798		
1	Screwdriver SZS 0,6 x 3,5 Order No. 1205053			
	Insertion bridge EBP 5	829		

Current carrying capacity curve

Type: MKKDSN 1,5/5 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



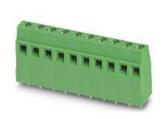
lechnical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	,
Solid / stranded	[mm²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	<u>-</u>
Drill hole diameter / pin dimensions	[mm]

MKKDSN 1,5/		MKKD	SNH 1,5/	5,08	МКЗЕ	OSN 1,5/ .	5,08		
		13.51) / 1.	5		13.5 ¹) / 1.5	5		101) / 1.5	
		400			400			400	
_									
		5/5.08			5.08			5.08	
	0.14 - 1.5	/ 0.14 - 1.	5/26-16	0.14 - 1.5		5/26-16	0.14 - 1.5		5/26-16
		0.25 - 1			0.25 - 1.5			0.25 - 1	
		0.25 - 1			0.25 - 1.5			0.25 - 1	
	0.14 -	0.75 / 0.14	4 - 0.75	0.14 -	0.75 / 0.14	l - 0.75	0.14 -	0.75 / 0.14	4 - 0.75
		0.25 - 0.5	<u> </u>		0.25 - 0.5			0.25 - 0.5	
		0.5 - 0.5			0.5 - 1			0.5 - 0.5	
	III/3	III/2	II / 2	III/3	III/2	11/2	III/3	III/2	11/2
	250	400	630	250	400	630	250	400	630
	4	4	4	4	4	4	4	4	4
	В	С	D	В	С	D	В	С	D
	300	-	300	300	-	300	300	-	300
	10	-	10	10	-	10	10	-	10
	30 - 14	-	30 - 14	30 - 14	-	30 - 14	30 - 14	-	30 - 14
	В	С	D	В	С	D	В	С	D
	150	-	300	-	-	-	150	-	300
-	10	-	10	-	-	-	10	-	10
-	28 - 14	-	28 - 14	-	-	-	28 - 14	-	28 - 14
		6			6			6	
M3			М3			М3			
		0.5 - 0.6			0.5 - 0.6			0.5 - 0.6	
-		PA/I			PA / I	·	PA/I		
-		V0			V0			V2	
-	1.3	3 / 0.5 x 1	mm	1.3 / 0.5 x 1 mm		mm			

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56



Double-level PCB terminal block with offset levels, with housing overlapping



High PCB terminal block with housing overlapping



Three-level PCB terminal block with offset levels, with housing overlapping

@ **.\$1.** ... @

Type

5.08 mm pitch, color: green MKKDSN 1,5/ 2-5,08

MKKDSN 1,5/ 3-5,08

MKKDSN 1,5/4-5,08

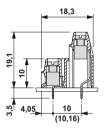
MKKDSN 1,5/ 5-5,08

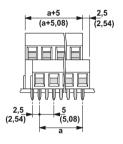
MKKDSN 1,5/6-5,08

MKKDSN 1,5/7-5,08

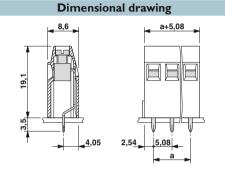
MKKDSN 1,5/8-5,08

Dimensional drawing

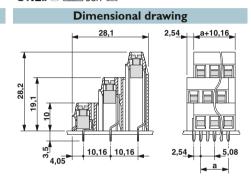




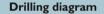
91us 🕑



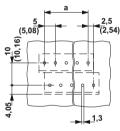
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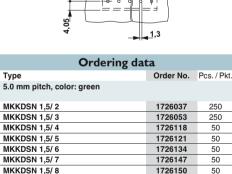


Drilling diagram



Drilling diagram





1726040

1726066

1726163

1726176

1726189

1726192

1726202

250

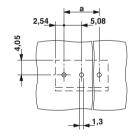
250

50

50

50

50

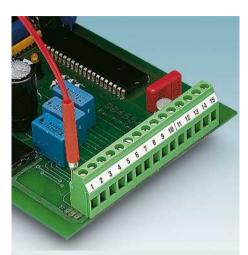


Ordering date	Ordering data					
Туре	Order No.	Pcs. / Pkt.				
5.08 mm pitch, color: green						
MKKDSNH 1,5/ 2-5,08	1731828	50				
MKKDSNH 1,5/ 3-5,08	1731831	50				
MKKDSNH 1,5/ 4-5,08	1731857	50				

	2,5 <u>4</u> 2,5 <u>4</u>	a ►	5,08	
20,32				£,1,3

	Ordering da	ta	
t.	Туре	Order No.	Pcs. / Pkt.
_			
_			
	5.08 mm pitch, color: green		
	MK3DSN 1,5/ 2-5,08	1723289	100
	MK3DSN 1,5/ 3-5,08	1723292	100
_			
_			
_			

Connection cross section of up to 1.5 mm²



- Single-row PCB terminal blocks for conductor cross sections up to 1.5 mm²
- 5.0 or 5.08 mm pitch

MKDSP 1,5/...

- With a 2.3 mm Ø test connection

SMKDSP 1,5/...

- Conductor and screwdriver axis at an angle of 35° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design
- With a 2.3 mm Ø test connection

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions avoided 30.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



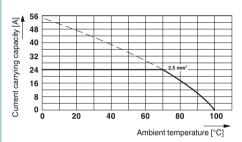
Detection lug for models with 5.08 mm inch pitch

Accessories						
For all types	Туре	Page				
a 2	Marker cards SK 5/3,8 orSK 5,08/3,8	798				
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053					
	Insertion bridge EBP 5	829				
Only for MKDSP 1,5 and	SMKDSP 1,5					
3	Test plug MPS	831				

Pitch spacer, width 1.25 mm RZ 1,25-MKDS 1,5 Order No. 1702048

Current carrying capacity curve

Type: MKDS 1,5/2 and MKDS 1,5/3
Test as per DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data		MKDS 1,5/	MKDSP 1,5/	:
nical data in accordance to IEC / DIN VDE				
current / conductor cross section	$[A] / [mm^2]$	17.51) / 2.5	17.51) / 2.5	
l insulation voltage for pollution degree 2	[V]	400	400	
	[mm]	5 / 5.08	5 / 5.08	
ection capacity				

Only for MKDS 1,5

Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Dital	f1
Pitch	[mm]
Connection capacity	21 / 21 / 414/0
	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	,
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDS 1,5/		MI	KDSP 1,5	<i>/</i>	SN	IKDSP 1,5	5/	
	17.5¹) / 2.	5		17.51) / 2.	5		17.51) / 2.	5
	400			400			400	
	5 / 5.08			5 / 5.08			5 / 5.08	
0.14 - 2.5	/ 0.14 - 1.	5/26-14	0.14 - 2.5	0.14 - 1.	5 / 26 - 14	0.14 - 2.5	0.14 - 1.	5/26-14
	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5	
	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5	
0.14	- 1 / 0.14 -	- 0.75	0.14	- 1 / 0.14	- 0.75	0.14	- 1 / 0.14 -	- 0.75
	0.25 - 0.5	i		0.25 - 0.5		0.25 - 0.5		
	0.5 - 1			0.5 - 1		0.5 - 1		
III / 3	III/2	II / 2	III/3	III/2	II / 2	III/3	III/2	11/2
250	400	630	250	400	630	250	400	630
4	4	4	4	4	4	4	4	4
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300	250	-	300
15	-	10	10	-	10	15	-	10
30 - 14	-	30 - 14	30 - 14		30 - 14	30 - 14		30 - 14
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300	300	-	300
10	-	10	10	-	10	10	-	10
28 - 14	-	28 - 14	28 - 14	-	28 - 14	28 - 14	-	28 - 14
	7			7			7	
7 M3		7 M3		7 M3				
	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6	
	PA/I			PA / I		PA/I		
-	V0			V0		V0		
1.3	/ 0.9 x 0.9	mm	1.3	/ 0.9 x 0.9	mm	1.3 / 0.9 x 0.9 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
2	5.08
3 4	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Techni



Horizontal connection direction, with housing overlapping



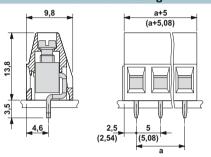
Horizontal connection direction, with test connection and housing overlapping



With 35° angled connection direction, with test connection and housing overlapping

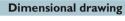


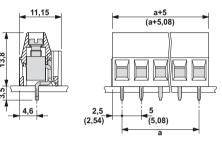
Dimensional drawing



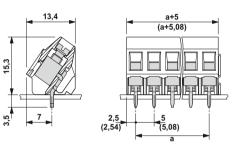
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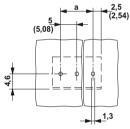
Dimensional drawing

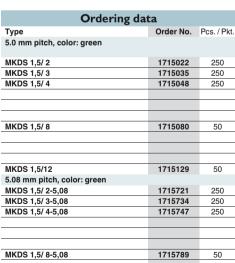


Drilling diagram

Drilling diagram

Drilling diagram





1715802

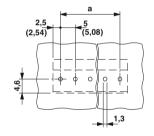
1715828

50

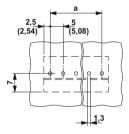
50

MKDS 1,5/10-5,08

MKDS 1,5/12-5,08



Ordering data		
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSP 1,5/ 2	1730010	50
MKDSP 1,5/3	1730023	50
MKDSP 1,5/ 4	1730036	50
MKDSP 1,5/ 5	1730049	50
MKDSP 1,5/6	1730052	50
MKDSP 1,5/ 7	1730065	50
MKDSP 1,5/ 8	1730078	50
MKDSP 1,5/ 9	1730081	50
MKDSP 1,5/10	1730094	50
MKDSP 1,5/11	1730104	50
MKDSP 1,5/12	1730117	50
5.08 mm pitch, color: green		
MKDSP 1,5/ 2-5,08	1730120	50
MKDSP 1,5/ 3-5,08	1730133	50
MKDSP 1,5/ 4-5,08	1730146	50
MKDSP 1,5/ 5-5,08	1730159	50
MKDSP 1,5/ 6-5,08	1730162	50
MKDSP 1,5/ 7-5,08	1730175	50
MKDSP 1,5/ 8-5,08	1730188	50
MKDSP 1,5/ 9-5,08	1730191	50
MKDSP 1,5/10-5,08	1730201	50
MKDSP 1,5/11-5,08	1730214	50
MKDSP 1,5/12-5,08	1730227	50



Ordering data		
Туре	Order No.	Pcs. / Pkt
5.0 mm pitch, color: green		
SMKDSP 1,5/ 2	1733415	250
SMKDSP 1,5/ 3	1733428	250
SMKDSP 1,5/ 4	1733431	250
SMKDSP 1,5/ 5	1733444	250
SMKDSP 1,5/6	1733457	50
SMKDSP 1,5/ 7	1733460	50
SMKDSP 1,5/ 8	1733473	50
SMKDSP 1,5/ 9	1733486	50
SMKDSP 1,5/10	1733499	50
SMKDSP 1,5/11	1733509	50
SMKDSP 1,5/12	1733512	50
5.08 mm pitch, color: green		
SMKDSP 1,5/ 2-5,08	1733570	250
SMKDSP 1,5/ 3-5,08	1733583	250
SMKDSP 1,5/ 4-5,08	1733596	250
SMKDSP 1,5/ 5-5,08	1733606	250
SMKDSP 1,5/ 6-5,08	1733619	50
SMKDSP 1,5/ 7-5,08	1733622	50
SMKDSP 1,5/ 8-5,08	1733635	50
SMKDSP 1,5/ 9-5,08	1733648	50
SMKDSP 1,5/10-5,08	1733651	50
SMKDSP 1,5/11-5,08	1733664	50
SMKDSP 1,5/12-5,08	1733677	50

Connection cross section of up to 1.5 mm²



- 5.0 or 5.08 mm pitch

MKDSFW 1,5/...

- Horizontal series with vertical connection direction to the PCB
- with stand-off/offset

MKDS 1,5-B

- PCB terminal block with internally bridged soldering metal
- Looping through common potentials irrespective of the conducting path

MKKDS 1,5/...

 Double-row type for conductor cross sections up to 1.5 mm² with horizontal connection direction

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions avoided 30

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch

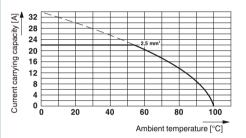


Detection lug for models with 5.08 mm inch pitch

Accessories			
For all types	Туре	Page	
a .	Marker cards SK 5/3,8 orSK 5,08/3,8	798	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
-	Insertion bridge EBP 5	829	

Current carrying capacity curve

Type: MKKDS 1,5/2 and MKKDS 1,5/3
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VD	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	-
Drill hole diameter / pin dimensions	

MK	MKDSFW 1,5/		MKDS 1,5/B-5,08		3-5,08
	17.51) / 2.5	5		17.51) / 2.5	5
	400			400	
	5			E 00	
	5			5.08	
0 14 - 2 5	5 / 0.14 - 1.	5/26-14	0 14 - 2 5	/ 0.14 - 1.	5 / 26 - 1/
0.14-2.0	0.25 - 1.5		0.14-2.3	0.25 - 1.5	3/20-14
-	0.25 - 1.5			0.25 - 1.5	
	0.20 1.0			0.20 1.0	
0.14	- 1 / 0.14 -	0.75	0.14	- 1 / 0.14 -	0.75
	0.25 - 0.5			0.25 - 0.5	
	0.5 - 1			0.5 - 1	
III/3	III/2	11/2	III/3	III/2	II/2
250	400	630	250	400	630
4	4	4	4	4	4
В	С	D	В	С	D
300	-	300	300	-	300
10	-	10	10	-	10
30 - 14	-	30 - 14	30 - 14	-	30 - 14
В	С	D	В	С	D
300	-	300		-	
10 24 - 14	-	10 24 - 14		-	
24 - 14	-	24 - 14		-	
	8			7	
	 M3		/ M3		
-	0.5 - 0.6		0.5 - 0.6		
	PA/I		PA/I		
-	V2 V0				
1.3	/ 0.9 x 0.9	mm	1.3 / 0.9 x 0.9 mm		mm

MH	KDS 1,5	<i>/</i>
1	17.51) / 2.5	5
	400	
	5/5.08	
		= / OO
0.14 - 2.5		5 / 26 - 14
	0.25 - 1 0.25 - 1.5	:
	0.25 - 1.5	
0.14	- 1 / 0.14 -	- 0.75
	0.25 - 0.5	
	0.5 - 0.5	
III/3	III/2	II / 2
250	400	630
4	4	4
В	С	D
125	-	300
10	-	10
30 - 14		30 - 14
В	С	D
300	-	300
10 28 - 14	-	10 28 - 14
28 - 14	-	28 - 12
	7	
	M3	
	0.5 - 0.6	
	PA/I	
	V0	

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
2	5.08
3	10.16
2	5.08
3	10.16
2	5.08
3	10.16
2	5.08
3	10.16



Vertical connection direction with stand-off and housing overlapping



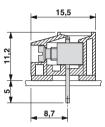
Horizontal connection direction, bridged internally, with housing overlapping

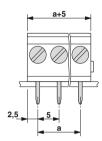


Double-level PCB terminal block with offset levels, with housing overlapping

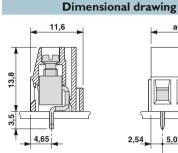
@ **.PU**us @

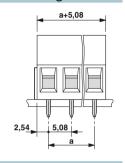
Dimensional drawing



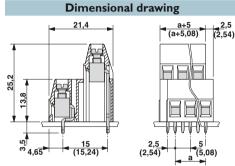








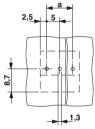
© c¶lus P ≤ ≤ CCA

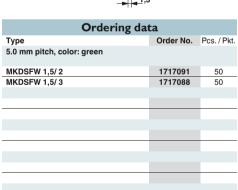


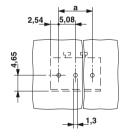
Drilling diagram



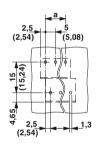
Drilling diagram





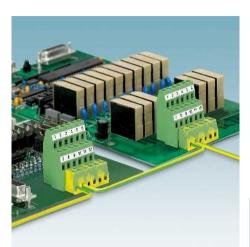


Ordering data			
Туре	Order No.	Pcs. / Pkt.	
T.00 !! !			
5.08 mm pitch, color: green			
MKDS 1,5/ 2-B-5,08	1868733	50	
MKDS 1,5/ 3-B-5,08	1868746	50	
Headers, 5.08 mm pitch, color: Black			
MKDS 1,5/ 2-B-5,08 BK	1868759	50	
MKDS 1,5/ 3-B-5,08 BK	1868762	50	
Pitch 5.08 mm, color: Blue			
MKDS 1,5/ 2-B-5,08 BU	1868775	50	
MKDS 1,5/ 3-B-5,08 BU	1707865	50	
Pitch 5.08 mm, color: green-yellow			
MKDS 1,5/ 2-B-5,08 GNYE	1706358	50	
MKDS 1,5/ 3-B-5,08 GNYE	1706361	50	



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDS 1,5/ 2	1725012	100
MKKDS 1,5/3	1725025	100
5.08 mm pitch, color: green		
MKKDS 1,5/ 2-5,08	1725038	100
MKKDS 1,5/ 3-5,08	1725041	100

Connection cross section of up to 1.5 mm²



MK3DS 1,5/...

- Three-level type with high packaging and connection density

MK3DS 1,5/...-A....

- Three-level type with internally bridged PE distributor terminal block in the lower level

MK3DS 1,5/...-BC...

- Three-level type without distributor terminal block in the lower level
- Multi-level PCB terminal block with offset levels for optimum accessibility of the terminal points

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch

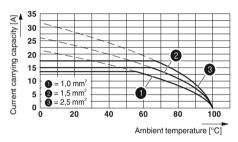


Detection lug for models with 5.08 mm inch pitch

Accessories			
For all types	Туре	Page	
	Marker cards SK 5,08/3,8	798	
•	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
	Insertion bridge EBP 5	829	

Current carrying capacity curve

Type: MK3DS 1,5/...-5,08 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
T 1 1 1 1 1 1 1 1 1	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [i	mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with t	he same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	MK3DS 1,5/5,08			MK3DS 1	,5/5,08	B-A-GNYE	MK3DS 1,5/5,08-BC			
		151) / 2.5			151) / 2.5			151) / 2.5		
Ī		400			400			400		
_										
		5.08		5.08		5.08				
	0.44.0.		5 (00 dd	0.44.0.		= 100 11	0.44.0.5	(0.4.4.4	= / 00 . 4 4	
_	0.14 - 2.5		5/26-14	0.14 - 2.5	0.14 - 1.		0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			
_		0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
		0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
	0.14	- 1 / 0.14	- 0.75	0.14	- 1 / 0.14 -	. 0. 75	0.14	- 1 / 0 1/1 -	0.75	
-	0.14	0.25 - 0.5		0.14	0.25 - 0.5		0.14 - 1 / 0.14 - 0.75 0.25 - 0.5			
-		0.5 - 0.52				0.5 - 0.5				
		0.0 0.0			0.0 0.0			0.0 0.0		
	III/3	III/2	II / 2	III/3	III/2	11/2	III/3	III/2	11/2	
_	250	400	630	250	400	630	250	400	630	
	4	4	4	4	4	4	4	4	4	
	В	С	D	В	С	D	В	С	D	
L	125	-	300	125	-	300	125	-	300	
	10	-	10	10	-	10	10	-	10	
	30 - 14	-	30 - 14	30 - 14	-	30 - 14	30 - 14	-	30 - 14	
	В	С	D	В	С	D	В	С	D	
L	300	-	300		-	-		-	-	
_	10	-	10		-	-		-	-	
	28 - 14	-	28 - 14		-	-	-	-	-	
		_			_			_		
_		7	 -		7 M3			7		
_	M3 0.5 - 0.6				0.5 - 0.6		M3			
-	PA/I			-	PA / I		0.5 - 0.6 PA/I			
-		V0			V0			V0		
-	1.3	/ 0.9 x 0.9	mm	1.3	/ 0.9 x 0.9	mm	1.3 / 0.9 x 0.9 mm			
-	- 1.0	, 0.0 X 0.0			, 0.0 X 0.0		1.0	, 0.0 X 0.0		

Dim. a [mm]
5.08
10.16



With offset levels and housing overlapping

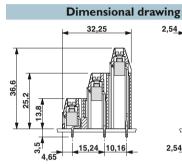


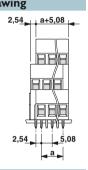
With internally bridged PE distributor terminal block in the lower level, with housing overlapping



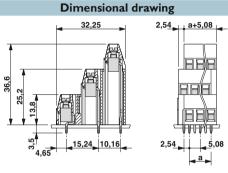
Without distributor terminal block in the lower level, with housing overlapping



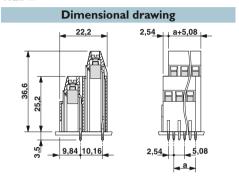




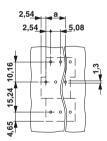
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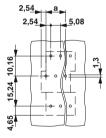


Drilling diagram



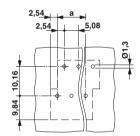
Ordering data						
Туре	Order No.	Pcs. / Pkt.				
5.08 mm pitch, color: green						
MK3DS 1,5/ 2-5,08	1724013	100				
MK3DS 1,5/ 3-5,08	1724026	100				

Drilling diagram



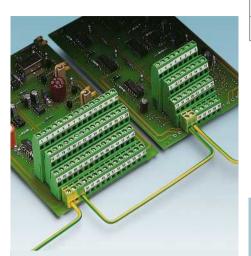
Ordering data						
Туре	Order No.	Pcs. / Pkt				
5.08 mm pitch, color: green/green-yellow						
MK3DS 1,5/ 2-5,08-A-GNYE	1868717	50				
MK3DS 1,5/ 3-5,08-A-GNYE	1868720	50				

Drilling	diagram



Ordering data							
Order No.	Pcs. / Pkt.						
5.08 mm pitch, color: green							
1706413	50						
1706426	50						
	Order No.						

Connection cross section of up to 1.5 mm²



- 5.08 mm pitch

MK4DS 1,5 /....

- Four-level type with high packaging and connection density

MK4DS 1,5/...-A...

- Four-level type with internally bridged PE distributor terminal block in the lower level

MK4DS 1,5/...-BCD...

- Four-level type without distributor terminal block in the lower level
- Multi-level PCB terminal block with offset levels for optimum accessibility of the terminal points

Technical data

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



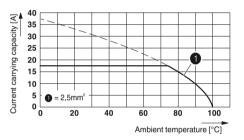
Detection lug for models with 5.08 mm inch pitch

For all types	Туре	Page			
	Marker cards SK 5/3,8 orSK 5,08/3,8	798			
!	Screwdriver SZS 0,6 x 3,5 Order No. 1205053				
	Insertion bridge EBP 5	829			

Accessories

Current carrying capacity curve Type: MK4DS 1,5/2-5,08 and MK4DS 1,5/3-5,08

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



recillical data	
Technical data in accordance to IEC / DIN VDI	Ē
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V
Pitch	[mm
Connection capacity	[,,,,,,
. ,	[mm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with ferrules with plastic sleeve	[mm²
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm²
Stranded with ferrules without plastic sleeve	[mm²
Stranded with TWIN ferrule with plastic sleeve	[mm²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWG
General data	
Stripping length	[mm
Screw thread	***
Tightening torque	[Nm
Type of insulation material / insulation material	group
Inflammability class according to UL 94	F
Drill hole diameter / pin dimensions	[mm]

MK4DS 1,5/5,08	MK4DS 1,5	/ _5 08	-A GNVE	MK4DS 1,5/5,08-BCD		08-BCD
WIK4DO 1,373,00	WIK4D3 1,5	3,00	AUNTE	MICTO	7 1,575,	00-000
151) / 2.5	14	51) / 2.5			15 ¹) / 2.5	
400		400			400	
400		400			400	
5.08		5.08 5.08				
0.14 - 2.5 / 0.14 - 1.5 / 26 - 14	0.14 - 2.5 / 0).14 - 1.5	5 / 26 - 14	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14		
0.25 - 1.5	0.	25 - 1.5			0.25 - 1.5	
0.25 - 1.5	0.	25 - 1.5			0.25 - 1.5	
0.14 - 1 / 0.14 - 0.75	0.14 - 1	/ 0.14 -	0.75	0.14	- 1 / 0.14 -	0.75
0.25 - 0.5		25 - 0.5			0.25 - 0.5	
0.5 - 0.5	0	.5 - 0.5			0.5 - 0.5	
III/3 III/2 II/2		III/2	II / 2	III/3	III/2	11/2
250 400 630	250	400	630	250	400	630
4 4 4	4	4	4	4	4	4
B C D	В	С	D	В	С	D
125 - 300	125	-	300	125	-	300
10 - 10	10	-	10	10	-	10
30 - 14 - 30 - 14	30 - 14	-	30 - 14	30 - 14	-	30 - 14
B C D	В	С	D	В	С	D
		-	-		-	-
		-	-		-	-
	-	-	-	-	-	-
7		7		7		
M3		М3		M3		
0.5 - 0.6		.5 - 0.6		0.5 - 0.6		
PA/I		PA/I		PA/I		
V0		V0		V0		
1.3 / 0.9 x 0.9 mm	1.3 / 0	.9 x 0.9	mm	1.3	/ 0.9 x 0.9	mm

Dim. a [mm]
5.08
10.16



With offset levels and housing overlapping



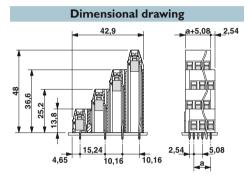
With internally bridged PE distributor terminal block in the lower level and housing overlapping

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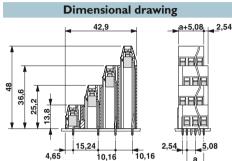


Without distributor terminal block in the lower level, with housing overlapping

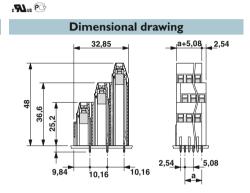




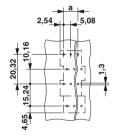
Drilling diagram



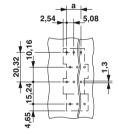
Drilling diagram



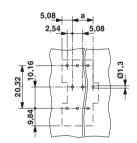
Drilling diagram



Ordering data						
Туре	Order No.	Pcs. / Pkt.				
5.08 mm pitch, color: green						
MK4DS 1,5/ 2-5,08	1868827	50				
MK4DS 1,5/ 3-5,08	1868830	50				



Ordering data						
Type Order No. Pcs. / Pkt						
5.08 mm pitch, color: green/green-yellow						
MK4DS 1,5/ 2-5,08-A GNYE	1707001	50				
MK4DS 1,5/ 3-5,08-A GNYE	1707140	50				

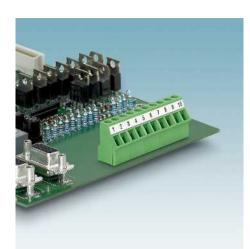


Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.08 mm pitch, color: green					
MK4DS 1,5/ 2-5,08-BCD	1706947	50			
MK4DS 1,5/ 3-5,08-BCD	1706950	50			

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A

Connection cross section of up to 2.5 mm²



MKDSN 2,5/...

- Low design, generously dimensioned 2.5 mm² connection cross section
- 5.0 or 5.08 mm pitch
- +/- screw

SMKDS 2,5/...

- Conductor connection at an angle of 40° to the PCB
- Screwdriver axis vertical to the PCB
- 5.08 mm pitch

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch

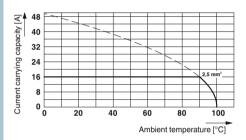


Detection lug for models with 5.08 mm inch pitch

Accessories						
Туре	Page					
Marker cards SK 5/3,8 orSK 5,08/3,8	798					
Screwdriver SZS 0,6 x 3,5 Order No. 1205053						
Insertion bridge EBP 5	829					
	Type Marker cards SK 5/3,8 orSK 5,08/3,8 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Insertion bridge					

Current carrying capacity curve

Type: MKDSN 2,5/2 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	ı
Technical data in accordance to IEC / DIN VI	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

Mi	KDSN 2,5/		SMK	DS 2,5/	-5,08	
	16¹) / 2.5			201) / 2.5		
	400			400		
-	5 / 5.08		-	5.08		
	373.00			3.00		
0.2 - 2.5	5 / 0.2 - 2.5	/ 24 - 14	0.14 - 2.5	/ 0.14 - 2.	5 / 26 - 14	
	0.25 - 2.5			0.25 - 2.5		
	0.25 - 2.5		-	0.25 - 2.5		
0.2 -	0.75 / 0.2 -	- 0.75	0.14 - (0.75 / 0.14	- 0.75	
	0.25 - 0.75	5		0.25 - 0.75	5	
	0.5 - 1.5			0.5 - 1.5		
III/3	III/2	11/2	III/3	III/2	11/2	
250	400	630	250	400	630	
4	4	4	4	4	4	
В	С	D	В	С	D	
300	-	300	250	-	300	
20	-	15	10	-	10	
30 - 12	-	30 - 12	30 - 12	-	30 - 12	
В	С	D	В	С	D	
	-	-	300	-	300	
	-		10	-	10	
-	-		28 - 12	-	28 - 12	
-	6.5			11		
	M3			M3		
	0.5 - 0.6		0.5 - 0.6			
	PA/I		PA/I			
	1.3 / 0.8 x 0.9 mm			V0		
1.3	/ U.8 X U.9	mm	1.4 / 1 x 0.9 mm			

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72

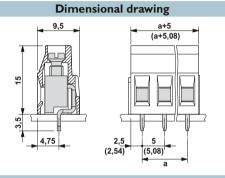




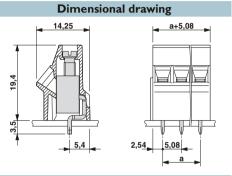
Low-profile design, with housing overlapping

With 40° angled connection direction and housing overlapping

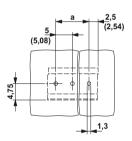




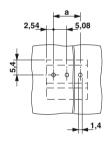
(F) US (CA CB



Drilling diagram



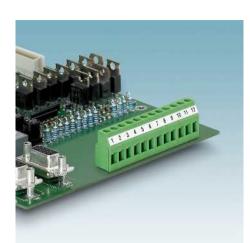
Drilling diagram



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.0 mm pitch, color: green					
MKDSN 2,5/ 2	1890963	250			
MKDSN 2,5/3	1890976	250			
MKDSN 2,5/ 4	1890989	250			
5.08 mm pitch, color: green					
MKDSN 2,5/ 2-5,08	1888687	250			
MKDSN 2,5/ 3-5,08	1888690	250			
MKDSN 2,5/ 4-5,08	1888700	250			

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
SMKDS 2,5/ 2-5,08	1705469	50		
SMKDS 2,5/ 3-5,08	1705472	50		
SMKDS 2,5/ 4-5,08	1995664	50		
SMKDS 2,5/ 5-5,08	1702558	50		
SMKDS 2,5/ 6-5,08	1736777	50		
SMKDS 2,5/ 7-5,08	1766174	50		
SMKDS 2,5/ 8-5,08	1736845	50		
SMKDS 2,5/ 9-5,08	1701626	50		
SMKDS 2,5/10-5,08	1736780	50		

Connection cross section of up to 2.5 mm²



- Standard PCB terminal blocks with 5.0 or 5.08 mm pitch

MKDS 3/...-B-5,08

- Distributor terminal block with an internally bridged soldering metal
- Looping through common potentials irrespective of the conducting path

MKDSP 3/...

- With integrated test connection to accommodate 2 mm Ø test pins or 2.3 mm Ø test plugs

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

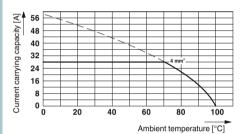


Metric 5 mm pitch



Current carrying capacity curve

Type: MKDS 3/2 and MKDS 3/3 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5

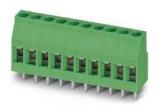


Accessories					
For all types	Туре	Page			
w	Marker cards SK 5/3,8 orSK 5,08/3,8	798			
-	Screwdriver SZS 0,6 x 3,5 Order No. 1205053				
	Insertion bridge EBP 5	829			
P	Single cover for individual terminal positions EA-MKDS Order No. 1711408				
Only for MKDS 3					
	Pitch spacer, width 1.25 mm RZ 1,25-MKDS 3 Order No. 1703047				
Only for MKDSP 3					
No.	Test plug MPS	831			

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [m	nm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with th	e same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material g	roup
Inflammability class according to UL 94	-
Drill hole diameter / pin dimensions	[mm]

			<u>'</u>				
IKDSP 3/	М	5,08	S 3/B-	MKD		KDS 3/	М
241) / 4			241) / 4			241) / 4	
400			400			400	
5 / 5.08			5.08			5 / 5.08	
0.2 - 2.5 / 24 - 12	0.2 - 4/	24 - 12	0.2 - 2.5 /	0.2 - 4/	24 - 12	0.2 - 2.5 /	0.2 - 4 /
0.25 - 2.5			0.25 - 2.5			0.25 - 2.5	
0.25 - 2.5			0.25 - 2.5			0.25 - 2.5	
- 1.5 / 0.2 - 1.5	0.0	1 5	1.5 / 0.2 -	0.0	1 5	. 1.5 / 0.2 -	0.0
0.25 - 0.75			1.5 / 0.2 -			0.25 - 0.75	
0.25 - 0.75			0.5 - 1.5			0.5 - 1.5	,
0.5 - 1.5			0.5 - 1.5			0.5 - 1.5	
III/2 II/2	III/3	11/2	III/2	III/3	II / 2	III/2	III/3
400 630	250	630	400	250	630	400	250
4 4	4	4	4	4	4	4	4
C D	В	D	С	В	D	С	В
- 300	250	300	-	300	300	-	300
- 10	15	10	-	15	10	-	15
- 30 - 12	30 - 12	30 - 12	-	30 - 12	30 - 12	-	30 - 12
C D	В	D	С	В	D	С	В
- 300	300	300	-	300	300	-	300
- 10	10	10	-	10	10	-	10
- 28 - 12	28 - 12	28 - 12	-	28 - 12	28 - 12	-	28 - 12
8			8			8	
M3			M3		M3		
0.5 - 0.6		0.5 - 0.6		0.5 - 0.6			
PA/II	PA/II		PA/I		PA/I		
V0	V0		V0		V0		
1.3 / 0.9 x 0.9 mm		1.3 / 0.9 x 0.9 mm		1.3 / 0.9 x 0.9 mm			

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
2	5.08
3	10.16
4	15.24
2	5.08
3	10.16
2	5.08
3	10.16
2	5.08
3	10.16





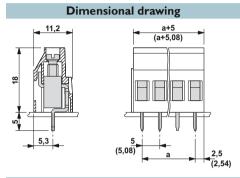


With housing overlapping

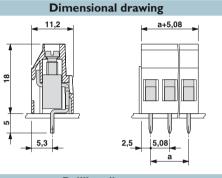
With housing overlapping, bridged internally

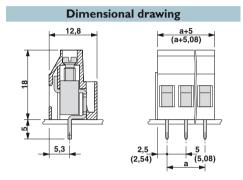
With housing overlapping and test connection







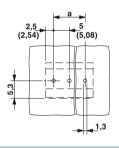


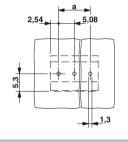


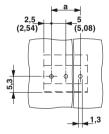
Drilling diagram



Drilling diagram





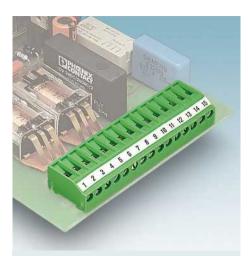


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
MKDS 3/ 2	1711026	100		
MKDS 3/3	1711039	100		
MKDS 3/ 4	1711042	50		
5.08 mm pitch, color: green				
MKDS 3/ 2-5,08	1711725	100		
MKDS 3/ 3-5,08	1711738	100		
MKDS 3/ 4-5,08	1712805	50		

Ordering data									
Туре	Order No.	Pcs. / Pkt.							
5.08 mm pitch, color: green									
MKDS 3/ 2-B-5,08	1707904	50							
MKDS 3/ 3-B-5,08	1707917	50							
Headers, 5.08 mm pitch, color: Black									
MKDS 3/ 2-B-5,08 BK	1706455	50							
MKDS 3/ 3-B-5,08 BK	1706468	50							
Pitch 5.08 mm, color: Blue									
MKDS 3/ 2-B-5,08 BU	1706439	50							
MKDS 3/ 3-B-5,08 BU	1706442	50							
Pitch 5.08 mm, color: green-yellow									
MKDS 3/ 2-B-5,08 GNYE	1706471	50							
MKDS 3/ 3-B-5,08 GNYE	1706484	50							

Ordering data									
Туре	Order No.	Pcs. / Pkt							
5.0 mm pitch, color: green									
MKDSP 3/2	1714023	50							
MKDSP 3/3	1714036	50							
5.08 mm pitch, color: green									
MKDSP 3/ 2-5,08	1714722	50							
MKDSP 3/ 3-5,08	1714735	50							

Connection cross section of up to 2.5 mm²



SMKDS 3/...

- Conductor and screwdriver axis at an angle of 35° to the PCB
- An arrangement of several terminal block rows one behind the other multi-level effect with the same design

MKDSFW 3/... and MKDSF 3/...

- Generously dimensioned wiring space, solid conductor up to 4 mm²
- Horizontal series with vertical connection direction to the PCB
- MKDSFW 1.5 with stand-off/offset
- MKDSF 3 with an angled solder pin guided backwards out of the housing

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



Dim. a

[mm] 5.00

10.00

15.00

25.00

35 00 55.00 5.08

10.16 15.24 25.40

3

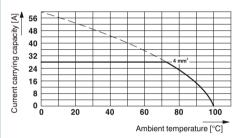
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3

Accessories						
For all types	Туре	Page				
	Marker cards SK 5/3,8 orSK 5,08/3,8	798				
ļ	Screwdriver SZS 0,6 x 3,5 Order No. 1205053					
	Insertion bridge EBP 5	829				
man	Test plug SPB 5-MKDS 3 Order No. 1301216	833				
Only for MKDSF 3		l .				
P	Single cover for individual terminal positions EA-MKDS Order No.					

Current carrying capacity curve Type: SMKDS 3/2 and SMKDS 3/3

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data		S	MKDS 3/.		MKDSFW 3/			MKDSF 3/				
Technical data in accordance to IEC / DIN VDE	echnical data in accordance to IEC / DIN VDE											
Rated current / conductor cross section	[A] / [mm ²]		241) / 4		241) / 4			241) / 4				
Rated insulation voltage for pollution degree 2	[V]		400			400			400			
Pitch	[mm]		5 / 5.08			5		-	5 / 5.08			
Connection capacity	[IIIIII]		3/3.06			э			5 / 5.08			
	n²] / [mm²] / AWG	0.0 4/0.0 0.5/04 10		0.2 - 4 / 0.2 - 2.5 / 24 - 12		0.2 - 4 / 0.2 - 2.5 / 24 - 12						
		0.2 - 4 / 0.2 - 2.5 / 24 - 12										
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 2.5		0.25 - 1			0.25 - 2.5					
Stranded with ferrules with plastic sleeve	[mm ²]		0.25 - 2.5		0.25 - 1			0.25 - 2.5				
Multi-conductor connection capacity (two conductors with the	same cross section)											
Solid / stranded	[mm ²]	0.2 - 1.5 / 0.2 - 1.5		0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5					
Stranded with ferrules without plastic sleeve	[mm²]		0.25 - 0.75	5		0.25 - 0.75			0.25 - 0.75			
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		0.5 - 1.5		0.5 - 1.5						
Insulation coordination												
Surge voltage category / pollution degree		III/3	III/2	11/2	III/3	III/2	II / 2	III/3	III/2	II / 2		
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630		
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4		
Approval data (UL/CUL)	Use Group	В	С	D	В	С	D	В	С	D		

Technical data in accordance to IEC / DIN VDE											
Rated current / conductor cross section [A] / [n	nm²]	241) / 4			241) / 4			241) / 4			
Rated insulation voltage for pollution degree 2	[V]	400			400			400			
	mm]		5 / 5.08		5			5 / 5.08			
Connection capacity											
Solid / stranded [mm²] / [mm²] / A		0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12			
Stranded with ferrules without plastic sleeve [n	nm²]		0.25 - 2.5		0.25 - 1			0.25 - 2.5			
Stranded with ferrules with plastic sleeve [n	nm²]		0.25 - 2.5		0.25 - 1			0.25 - 2.5			
Multi-conductor connection capacity (two conductors with the same cross sect	ion)										
Solid / stranded [n	nm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			
Stranded with ferrules without plastic sleeve [n	nm²]	(0.25 - 0.75	5		0.25 - 0.75	5	0.25 - 0.75			
Stranded with TWIN ferrule with plastic sleeve [n	nm²]		0.5 - 1.5			0.5 - 1.5		0.5 - 1.5			
Insulation coordination											
Surge voltage category / pollution degree		III/3	III/2	II / 2	III/3	III/2	II / 2	III/3	III/2	11/2	
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630	
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4	
Approval data (UL/CUL) Use Gi	roup	В	С	D	В	С	D	В	С	D	
Nominal voltage	[V]	250	-	300	250	-	300	250	-	300	
Nominal current	[A]	15	-	10	16	-	10	15	-	10	
Connection capacity AWG	AWG	30 - 12	-	30 - 12	30 - 12	-	30 - 12	30 - 12	-	30 - 12	
Approval data (CSA) Use G	roup	В	С	D	В	С	D	В	С	D	
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300	
Nominal current	[A]	10	-	10	10	-	10	10	-	10	
Connection capacity AWG	AWG	28 - 12	-	28 - 12	28 - 12	-	28 - 12	28 - 12	-	28 - 12	
General data											
Stripping length [mm]		8			8			8		
Screw thread		M3			M3			M3			
Tightening torque [[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6			
Type of insulation material / insulation material group		PA/I			PA/I			PA/I			
Inflammability class according to UL 94		V0				V2		V0			
Drill hole diameter / pin dimensions [mm]	1.3 / 0.9 x 0.9 mm			1.3 / 0.9 x 0.9 mm			1.3 / 0.9 x 0.9 mm			



With 35° angled connection direction and housing overlapping



With stand-off and housing overlapping

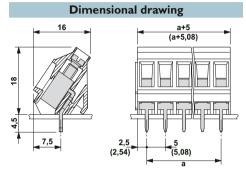
Dimensional drawing



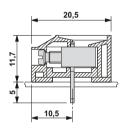
With angled solder pin and housing overlapping

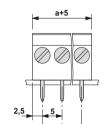
Dimensional drawing

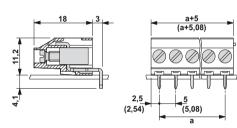




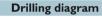
D au 12. 10



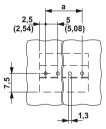


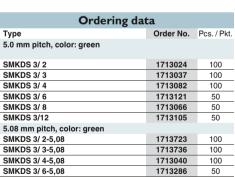


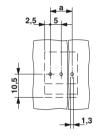
Drilling diagram



Drilling diagram





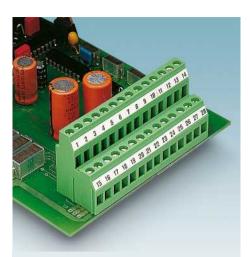


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
MKDSFW 3/2	1771529	50		
MKDSFW 3/3	1771260	50		

2,5 (2,54)	5 (5,08)
7	• • • • •
	1,3

Ordering	data	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSF 3/2	1712025	50
MKDSF 3/3	1712038	50
MKDSF 3/4	1712041	50
MKDSF 3/8	1712083	50
MKDSF 3/12	1712122	50
5.08 mm pitch, color: green		
MKDSF 3/ 2-5,08	1712724	50
MKDSF 3/ 3-5,08	1712737	50

Connection cross section of up to 2.5 mm²



MKKDS 3/...

- Double-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

MKKDSG 3/...

- Double-level type with high packaging and connection density
- Non-offset levels for space-saving installation in device housings

MKKDSH 3/...

- Single-row type, back level of the double-level PCB terminal block

Notes:

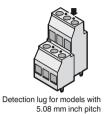
For all types

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

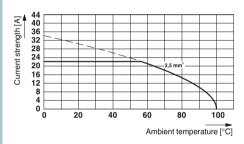
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.







Type: MKKDS 3/2 and MKKDS 3/3 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Current carrying capacity curve

a .	Marker cards SK 5/3,8 orSK 5,08/3,8	798
1	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
?	Single cover for individual terminal positions EA-MKDS Order No. 1711408	
2	Insertion bridge EBP 5	829
mm/	Test plug SPB 5-MKDS 3 Order No. 1301216	833

Accessories

Page

Туре

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the sa	me cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material grou	p
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

221)/4	M	KKDS 3/		МІ	KKDSG 3	<i>/</i>	M	KKDSH 3/	'	
A00										
A00										
5/5.08 5 5 0.2-4/0.2-2.5/24-12 0.2-4/0.2-2.5/24-12 0.2-4/0.2-2.5/24-12 0.25-1.5 0.25-1.5 0.25-1.5 0.25-2.5 0.25-2.5 0.25-2.5 0.2-1.5/0.2-1.5 0.2-1.5/0.2-1.5 0.2-1.5/0.2-1.5 0.25-0.75 0.25-0.75 0.25-0.75 0.5-0.5 0.5-0.5 0.5-1.5 111/3 111/2 111/3 111/2 111/3 111/2 111/2 111/3 111/2 11/2 111/2 11/2 111/2 11/2 11/2 11/2 111/2 11/2		221) / 4			17.51) / 4			241) / 4		
0.2 - 4 / 0.2 - 2.5 / 24 - 12 0.2 - 4 / 0.2 - 2.5 / 24 - 12 0.2 - 4 / 0.2 - 2.5 / 24 - 12 0.2 - 4 / 0.2 - 2.5 / 24 - 12 0.25 - 1.5 0.25 - 1.5 0.25 - 1.5 0.25 - 1.5 0.25 - 2.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.25 - 0.75 0.25 - 0.75 0.25 - 0.75 0.25 - 0.75 0.5 - 0.5 0.5 - 0.5 0.5 - 1.5 III / 3 III / 2 III / 3 III / 2 III / 3 III / 2 <		400		400			400			
0.2 - 4 / 0.2 - 2.5 / 24 - 12 0.2 - 4 / 0.2 - 2.5 / 24 - 12 0.2 - 4 / 0.2 - 2.5 / 24 - 12 0.2 - 4 / 0.2 - 2.5 / 24 - 12 0.25 - 1.5 0.25 - 1.5 0.25 - 1.5 0.25 - 1.5 0.25 - 2.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.25 - 0.75 0.25 - 0.75 0.25 - 0.75 0.25 - 0.75 0.5 - 0.5 0.5 - 0.5 0.5 - 1.5 III / 3 III / 2 III / 3 III / 2 III / 3 III / 2 <										
0.25 - 1.5 0.25 - 1.5 0.25 - 1.5 0.25 - 2.5 0.25 - 2.5 0.25 - 2.5 0.2 - 1.5 / 0.2 - 1.5 0.25 - 2.5 0.25 - 2.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.25 - 0.75 0.5 - 0.5 0.5 - 0.5 0.5 - 0.5 0.5 - 1.5 IIII/3 III / 2 III / 3 III / 2 III / 2 III / 3 III / 2 I		5/5.08			5			5		
0.25 - 1.5 0.25 - 1.5 0.25 - 1.5 0.25 - 2.5 0.25 - 2.5 0.25 - 2.5 0.2 - 1.5 / 0.2 - 1.5 0.25 - 2.5 0.25 - 2.5 0.2 - 1.5 / 0.2 - 1.5 0.25 - 0.75 0.25 - 0.75 0.5 - 0.5 0.5 - 0.5 0.5 - 1.5 IIII/3 III/2 IIII/3 III/2 III/3 III/2 III/3 III/2 III/3 III/2 III/3 III/2 III/3 III/2 III/2 III/2 III/3 III/2										
0.25 - 2.5 0.25 - 2.5 0.25 - 2.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.25 - 0.75 0.25 - 0.75 0.25 - 0.75 0.5 - 0.5 0.5 - 0.5 0.5 - 1.5 IIII / 3 III / 2 III / 3 III / 2 III / 3 III / 2 II										
0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.2 - 1.5 / 0.2 - 1.5 0.25 - 0.75 0.25 - 0.75 0.25 - 0.75 0.5 - 0.5 0.5 - 0.5 0.5 - 0.5 III / 3 III / 2 III /										
0.25 - 0.75 0.25 - 0.75 0.5 - 0.5 0.5 - 0.5 0.5 - 0.5 0.5 - 0.5 0.5 - 0.5 0.5 - 1.5 IIII/3 IIII/2 III/3 III/2 III/3 III/2 III/3 III/2 III/3 III/2		0.25 - 2.5	5		0.25 - 2.5			0.25 - 2.5		
0.25 - 0.75 0.25 - 0.75 0.5 - 0.5 0.5 - 0.5 0.5 - 0.5 0.5 - 0.5 0.5 - 0.5 0.5 - 1.5 IIII/3 IIII/2 III/3 III/2 III/3 III/2 III/3 III/2 III/3 III/2										
11								0.2 - 1.5 / 0.2 - 1.5		
250 400 630 250 400 630 250 400 630 4		0.5 - 0.5			0.5 - 0.5			0.5 - 1.5		
250 400 630 250 400 630 250 400 630 4										
4 5 20 20										
B C D B C D B C D 125 - 300 125 - 300 125 - 300 15 - 10 10 - 10 15 - 10 30-12 - - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
125 - 300 125 - 300 125 - 300 15 - 10 10 - 10 15 - 10 30 - 12 - - - - - - - - - - -<										
15	_	C	_	_	C	_	_	-	_	
30-12 - 30-12 30-12 - -<		-			-					
B C D B C D B C D 300 - 300 - 300 - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
300										
10 - 10 - 10 -	_			_			_	-	_	
28-12 - 28-12 - 28-12 - <										
7 7 7 7 M3 M3 M3 0.5 - 0.6 0.5 - 0.6 0.5 - 0.6 PA/I PA/I PA/I V0 V0 V0 V0										
M3 M3 M3 0.5-0.6 0.5-0.6 0.5-0.6 PA/I PA/I PA/I V0 V0 V0	20-12	-	20 - 12	20 - 12		20-12	-		-	
M3 M3 M3 0.5-0.6 0.5-0.6 0.5-0.6 PA/I PA/I PA/I V0 V0 V0		7			7			7		
0.5 - 0.6 0.5 - 0.6 0.5 - 0.6 PA/I PA/I PA/I V0 V0 V0	-			-			-			
PA/I PA/I PA/I V0 V0 V0	-									
V0 V0 V0	-									
	1.3									
	110	. 1.1 × 0.0			x 0.0			1.1 7 0.0		

No. of pos.	Dim. a
2	5.00
3	10.00
2	5.08
3	10 16



Double-level PCB terminal block with offset levels, with housing overlapping

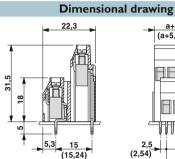


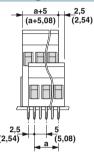
Double-level PCB terminal blocks without offset levels, with housing overlapping



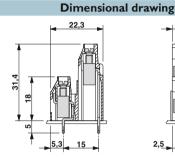
High PCB terminal block with housing overlap-

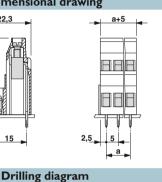




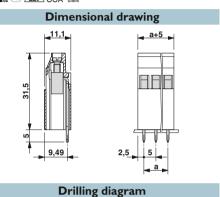


(F) US (CA CB

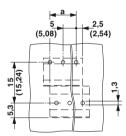




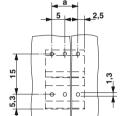
CCA CB



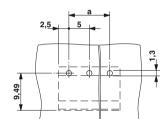
Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
MKKDS 3/2	1721029	50		
MKKDS 3/3	1721032	50		
5.08 mm pitch, color: green				
MKKDS 3/ 2-5,08	1721728	50		
MKKDS 3/ 3-5,08	1721731	50		

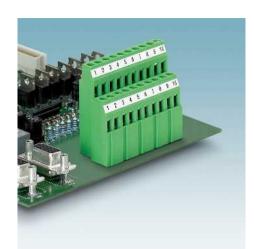


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
MKKDSG 3/2	1721090	50		
MKKDSG 3/3	1721087	50		



Ordering data			
Type Order No. Pcs. /			
Printed circuit termination block, for soldering into the printed circuit board, 5.0 mm pitch			
MKKDSH 3/2	1721045	50	
MKKDSH 3/3	1721346	50	

Connection cross section of up to 2.5 mm²



MK3DS 3/...

- Three-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

MKKDSH 3/...

- Single-row type, back level of the threelevel PCB terminal block
- The high types are suitable for applications with molded PCBs

MKKDSMH 3/...

- Double-row type, middle and back level of the three-level PCB terminal block

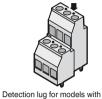
Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch

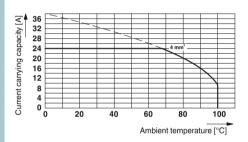


5.08 mm inch pitch

Accessories			
For all types	Туре	Page	
a .	Marker cards SK 5,08/3,8	798	
1	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
1	Single cover for individual terminal positions EA-MKDS Order No. 1711408		
4	Insertion bridge EBP 5	829	
enay/	Test plug SPB 5-MKDS 3 Order No. 1301216	833	

Current carrying capacity curve

Type: MK3DS 3/2 and MK3DS 3/3 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	ı
Technical data in accordance to IEC / DIN VI	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wi	ith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	ve [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation materi	al group
1.00	·
Inflammability class according to UL 94	

	MK3	DS 3/	5,08	MK3	DSH 3/	-5,08	MK3I	OSMH 3/	5,08
		17.5 ¹) / 4			241) / 4			221) / 4	
		400			400			400	
_		5.08			5.08			5.08	
		5.06			5.06			5.06	
	02-4	0.2 - 2.5	/ 24 - 12	02-4	0.2 - 2.5	24 - 12	02-4	/ 0.2 - 2.5 /	24 - 12
-	0.2 - 47	0.25 - 1.5		0.2 - 47	0.25 - 1.5		0.2 - 4	0.25 - 1.5	
-		0.25 - 2.5			0.25 - 2.5			0.25 - 2.5	
	0.2	- 1.5 / 0.2	- 1.5	0.2	- 1.5 / 0.2	- 1.5	0.2	- 1.5 / 0.2	- 1.5
		0.25 - 0.75	5		0.25 - 0.75	5		0.25 - 0.75	5
		0.5 - 0.5			0.5 - 1.5			0.5 - 0.5	
_	III/3	III/2	II / 2	III/3	III/2	II / 2	III/3	III/2	II / 2
_	250	400	630	250	400	630	250	400	630
	4	4	4	4	4	4	4	4	4
	В	С	D	В	С	D	В	С	D
_	125	-	300	125	-	300	125		300
_	20	-	10	15	-	10	15		10
	30 - 12 B	C	30 - 12	30 - 12	-	30 - 12	30 - 12	- C	30 -
	300	-	D 300	В -	C	D -	B -	-	D
-	10		10			<u> </u>			
-	28 - 12		28 - 12						
	20 - 12		20 - 12						
		7			7			7	
-		M3			МЗ		_	M3	
-		0.5 - 0.6		-	0.5 - 0.6	-		0.5 - 0.6	
		PA/I			PA/I			PA/I	
		V0			V0			V0	
_	1.3	/ 0.9 x 0.9	mm	1.3	/ 0.9 x 0.9	mm	1.3	/ 0.9 x 0.9	mm

Dim. a [mm]
5.08
10.16



Three-level PCB terminal block with offset levels, with housing overlapping

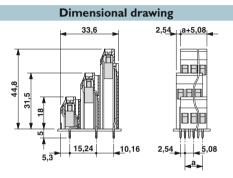


High PCB terminal block with housing overlapping

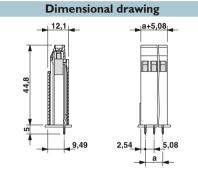


High double-level PCB terminal block with offset levels and housing overlapping

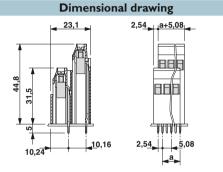
© CCA CB



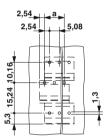
CCA CB



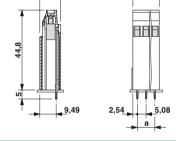
CCA CB



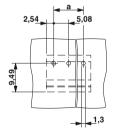
Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
MK3DS 3/ 2-5,08	1723014	50		
MK3DS 3/ 3-5,08	1723027	50		

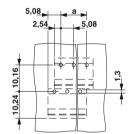


Drilling diagram



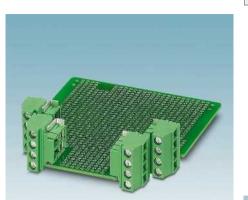
Ordering date	ta	
Туре	Order No.	Pcs. / Pkt
5.08 mm pitch, color: green		
MK3DSH 3/ 2-5,08	1723182	50
MK3DSH 3/ 3-5,08	1723195	50

Drilling	diagram



ring data	
Order No.	Pcs. / Pkt
1723205	50
1723218	50
	Order No.

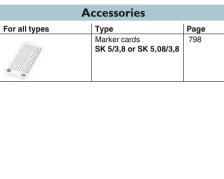
Connection cross section of up to 2.5 mm²



- PCB terminal block for ME/ME MAX electronic housing
- PCB terminal block is orthogonal to the
- "Left" and "right" design
- Pitch 5 mm
- Number of positions between 2 and 4

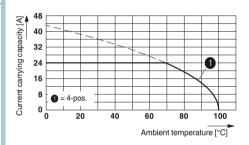
Notes:

Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Current carrying capacity curve

Type: MKDSO 2,5/4...L(R)
Test based on DIN EN 60512-5-2:2003-01
Reduction factor = 1 Number of positions: 4



Technical data	a
Table in I date in a considerate to IFO / DINI)	/DE
Technical data in accordance to IEC / DIN V	
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree	92 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors v	vith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	e [mm²]
Stranded with TWIN ferrule with plastic slee	ve [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	rial group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKI	OSO 2,5/ .		MK	DSO 2,5/	-R
IVII	200 2,07 .		IIIIX	200 2,07	
	241) / 2.5			241) / 2.5	
· -	400			400	
	5			5	
0.14 - 2.5	/ 0.14 - 2.				5 / 26 - 14
	0.25 - 2.5			0.25 - 2.5	
	0.25 - 2.5			0.25 - 2.5	
	0.75 / 0.14			0.75 / 0.14	
	0.25 - 0.75 0.5 - 1.5)		0.25 - 0.75 0.5 - 1.5)
	0.5 - 1.5			0.5 - 1.5	
III/3	III/2	II / 2	III/3	III/2	11/2
250	400	630	250	400	630
4	4	4	4	4	4
В	С	D	В	С	D
300	-	300	300	-	300
20	-	15	20	-	15
30 - 12	-	30 - 12	30 - 12	-	30 - 12
В	С	D	В	С	D
300	-	300	300	-	300
10	-	10	10	-	10
28 - 12	-	28 - 12	28 - 12	-	28 - 12
	8			8	
	M3			M3	
	0.5 - 0.6			0.5 - 0.6	
· -	PA/I			PA/I	
	V0			V0	
	1.4 / 0.8 x	1		1.4 / 0.8 x	1

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
2	5.00
3	10.00
4	15 00

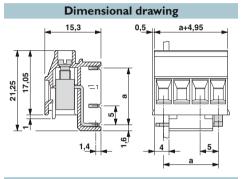




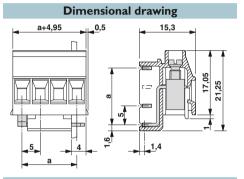
With "left" solder pins leading off at a right angle

With "right" solder pins leading off at a right angle



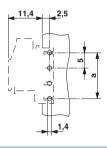


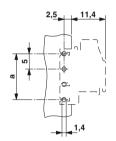
© CCA CB



Drilling diagram

Drilling diagram

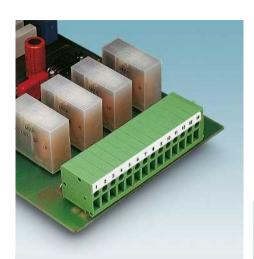




Ordering data					
Туре	Order No.	Pcs. / Pkt.			
PCB terminal block, 5 mm pitch, color: green					
MKDSO 2,5/ 2-L	1707205	250			
MKDSO 2,5/ 3-L	1707221	250			
MKDSO 2,5/ 4-L	1707234	250			
PCB terminal block, left, 5 mm pitch, color: light gray					
MKDSO 2,5/ 2-L KMGY	2915261	250			
MKDSO 2,5/ 3-L KMGY	2854102	250			
MKDSO 2,5/ 4-L KMGY	2908485	250			

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
PCB terminal block, right, 5 mm pitch, color: green					
MKDSO 2,5/ 2-R	1707195	250			
MKDSO 2,5/ 3-R	1707218	250			
MKDSO 2,5/ 4-R	1707247	250			
PCB terminal block, right, 5 mm pitch, color: light gray					
MKDSO 2,5/ 2-R KMGY	2915258	250			
MKDSO 2,5/ 3-R KMGY	2854092	250			
MKDSO 2,5/ 4-R KMGY	2908472	250			

Front screw connections up to 2.5 mm²



- Screw terminal blocks with a front conductor connection
- Generously dimensioned connection cross section up to 2.5 mm²
- Double solder pin for high stability on the PCB
- Voltage increase through the use of pitch spacers
- For flush mounting in the front of devic-
- Horizontal and vertical types

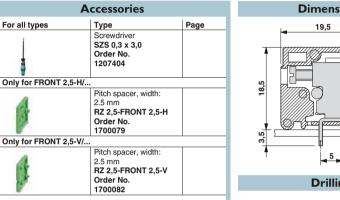
Notes:

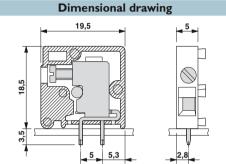
- $^{\mbox{\scriptsize 1}}\mbox{\scriptsize)}$ 400 V is achieved when the pitch spacer RZ 2,5-FRONT 2,5-H(V) is inserted.
- 2) Current carrying capacity curve upon request.



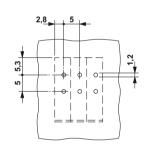
Horizontal connection direction, 5 mm pin spacing

D @





Drilling diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm ²] /	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with the same	cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	242) / 2.5				
	400				
	5				
0.2 - 2.5	/ 0.2 - 2.5				
	0.25 - 1.5				
	0.25 - 1.5				
	0.75 / 0.2				
	0.25 - 0.34	1			
	-				
III / 3	III / 2	11/2			
250¹)	400	630			
4	4	4			
В	С	D			
250	-	300			
10	-	10			
30 - 12	-	30 - 12			
В	С	D			
300	-	300			
10 24 - 12	-	10 24 - 12			
24 - 12	-	24 - 12			
	9				
	M2,5				
	0.4 - 0.5				
-	PA/I				
	V0				
12	/ 0.8 x 0.8	mm			
1.2	1.27 0.0 X 0.0 IIIII				

		Ordering data			
		Туре	Order No.	Pcs. / Pkt.	
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green			
2	5.00	FRONT 2,5-H/SA 5/ 2	1868665	20	
3	10.00	FRONT 2,5-H/SA 5/ 3	1700121	20	
4	15.00	FRONT 2,5-H/SA 5/ 4	1700781	20	
5	20.00	FRONT 2,5-H/SA 5/ 5	1724660	20	
6	25.00	FRONT 2,5-H/SA 5/ 6	1891975	20	
7	30.00	FRONT 2,5-H/SA 5/ 7	1988257	20	
8	35.00	FRONT 2,5-H/SA 5/ 8	1724673	20	
9	40.00	FRONT 2,5-H/SA 5/ 9	1744109	20	
10	45.00	FRONT 2,5-H/SA 5/10	1773264	20	
11	50.00	FRONT 2,5-H/SA 5/11	1701382	20	
12	55.00	FRONT 2,5-H/SA 5/12	1892893	20	



Horizontal connection direction, 10 mm pin spacing

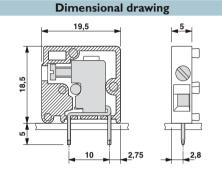


Vertical connection direction, 5 mm pin spacing



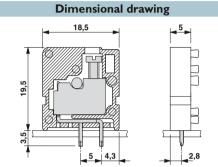
Vertical connection direction, 10 mm pin spacing

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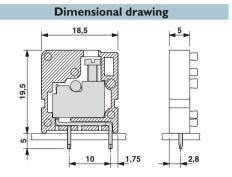
Drilling diagram

D 20 11 12 19

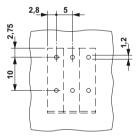


Drilling diagram

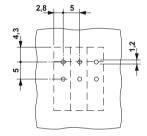
D 201/27 D



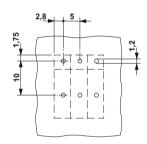
Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
FRONT 2,5-H/SA10/ 2	1724657	20		
FRONT 2,5-H/SA10/ 3	1904215	20		
FRONT 2,5-H/SA10/ 4	1773170	20		
FRONT 2,5-H/SA10/ 5	1773183	20		
FRONT 2,5-H/SA10/ 6	1773196	20		
FRONT 2,5-H/SA10/ 7	1773206	20		
FRONT 2,5-H/SA10/ 8	1773219	20		
FRONT 2,5-H/SA10/ 9	1773222	20		
FRONT 2,5-H/SA10/10	1773235	20		
FRONT 2,5-H/SA10/11	1773248	20		
FRONT 2,5-H/SA10/12	1773251	20		

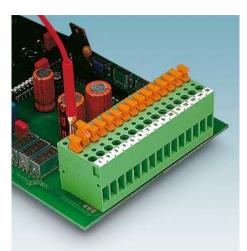


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
FRONT 2,5-V/SA 5/ 2	1700244	20		
FRONT 2,5-V/SA 5/ 3	1700134	20		
FRONT 2,5-V/SA 5/ 4	1888250	20		
FRONT 2,5-V/SA 5/ 5	1700354	20		
FRONT 2,5-V/SA 5/ 6	1700231	20		
FRONT 2,5-V/SA 5/ 7	1724152	20		
FRONT 2,5-V/SA 5/ 8	1700710	20		
FRONT 2,5-V/SA 5/ 9	1724165	20		
FRONT 2,5-V/SA 5/10	1700765	20		
FRONT 2,5-V/SA 5/11	1700118	20		
FRONT 2,5-V/SA 5/12	1889974	20		



Order No.	Pcs. / Pkt.
1704114	20
1704897	20
1732238	20
1773277	20
1701230	20
1773280	20
1704127	20
1704907	20
1700778	20
1773293	20
1931741	20
	1704127 1704907 1700778 1773293

Single terminal blocks of up to 2.5 mm²



- Double solder pin for high stability on the PCB
- Low-heat generating current transfer in the conducting path
- Increase in voltage with pitch spacers
- A plate-type design enables blocking for larger number of positions

Notes:
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
1) 400 V is achieved when the pitch spacer RZ-KDS 2,5 is inserted.
²) 500 V is achieved when the pitch spacer RZ 2.54 is inserted.
3) 500 V is achieved when the pitch spacer RZ 2,54 is inserted.
4) Current carrying capacity curve available on request.

Α	ccessories	
For all types	Туре	Page
MIN	Test plug MPS	831
Sel .	Reducing plug RPS Order No. 0201647	831
Only for KDS 2,5		
9	Pitch spacer, width: 2.5 mm RZ-KDS 2,5 Order No. 1705029	
Only for KDS 3-PMT and	KDS 3-MT	
9	Pitch spacer, width: 2.54 mm RZ 2,54 Order No. 1780044	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm²]	/ [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	ne cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group)
Inflammability class according to UL 94	
milarimability oldes describing to 62 or	

KDS 2,5		KDS 3-PMT		KDS 3-MT				
	244) / 4			13.54) / 4		154) / 4		
	400			320			320	
	5			5.08			5.08	
0.2 - 4	0.2 - 2.5			0.2 - 2.5 /			0.2 - 2.5	
	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5	
	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5	i
0.2	2 - 1 / 0.2 -			2 - 1 / 0.2			2 - 1 / 0.2	
	0.25 - 0.5	·		0.25 - 0.75	5		0.25 - 0.75	5
	0.5 - 1			0.5 - 1		0.5 - 1		
	III / O			III / 0			III / O	11.70
III / 3	III / 2	11/2	III / 3	III/2	11/2	III / 3	III / 2 320	11/2
250¹) 4	400	630	320 ³)	320 4	630	320 ²)	320	630
B B	C C	D D	4 B	C C	D D	B B	C C	D D
250	-	300	250	-	300	250	-	300
15		10	15		10	15		10
30 - 12		30 - 12	28 - 12		28 - 12	28 - 12		28 - 12
B	С	D D	B	С	D D	B	С	D
300	-	300	-	-	-	300	-	300
10	-	10		-		10	-	10
24 - 12		24 - 12				24 - 12		24 - 12
	9			8			8	
-						 M3		
0.5 - 0.6			0.5 - 0.6		0.5 - 0.6			
	PA/I		PA / I		PA / I			
	V2			V2		V2		
1.4 / 1.1 x 0.7 mm 1.2 / 0.8 x 0.8 mm			mm	1.4	/ 1.1 x 0.8	mm		

No. of pos.



Single PCB terminal block, alignable

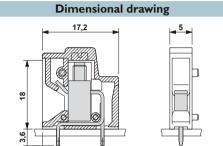


Disconnect terminal block with test connection on both sides of the disconnect point

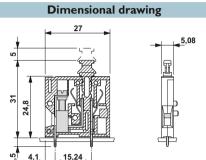


Knife disconnect terminal block with test

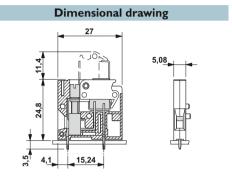




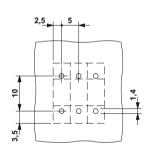
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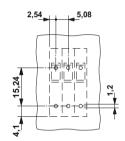


Drilling diagram



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
KDS 2,5	1705016	50	
Pitch 5 mm, color: Blue			
KDS 2,5 BU	1705090	50	

Drilling diagram



Ordering dat	a	
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
KDS 3-PMT	1780028	50

2,5	4>++	 5,0	8	
	#			
15,24	 		4,1	

Drilling diagram

	Ordering data				
t.	Туре	Order No.	Pcs. / Pkt.		
	5.08 mm pitch, color: green				
	KDS 3-MT	1780015	50		

Connection cross section of up to 1.5 mm²



GMKDSN 1,5/...

- Single-row PCB terminal blocks for 630 V applications with a 7.62 mm pitch
- Can be connected in series with the corresponding standard models of the MKDSN 1,5 range
- Low design for especially compact mains connections

GSMKDSN 1,5/...

- Angled type with the connection direction at an angle of 55° to the PCB
- An arrangement of several terminal block rows one behind the other multi-level effect with the same design

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 7.5 mm pitch

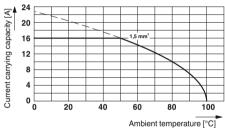


Detection lug for models with 7.62 mm inch pitch

Accessories				
For all types	Туре	Page		
a .	Marker cards SK 7,62/5	800		
4	Screwdriver SZS 0,4 x 2,5 Order No. 1205037			

Current carrying capacity curve

Type: GMKDSN 1,5/5-7,62 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Ambient temperature [°	C]

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm²]	/ [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	ne cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

0.14 - 1.5	16¹) / 1.5 630 7.62		
0.14 - 1.5	630		
0.14 - 1.5	630		
0.14 - 1.5			
0 14 - 1 5	7.62		
0 14 - 1 5	7.62		
0 14 - 1 5			
	0.44 4.5 / 0.44 4.5 / 0.0 4.0		
0			
	0.20 - 1.5		
0.14 -	0.75 / 0.1/	1 - 0.75	
0.14			
-			
	0.0 1		
III/3	III/2	II/2	
500	630	1000	
6	6	6	
В	С	D	
300	-	300	
10	-	10	
30 - 14	-	30 - 14	
В	С	D	
300	-	300	
10	-	10	
28 - 14	-	28 - 14	
	6		
M3			
0.5 - 0.6			
	PA/I		
1.5	3 / 0.5 x 1 r	mm	
	0.14 - III / 3 500 6 B 300 10 30 - 14 B 300 10 28 - 14	500 630 6 6 B C 300 - 10 - 30 - 14 - B C 300 - 10 - 28 - 14 - 6 M3 0.5 - 0.6	

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82





Low-profile design, with housing overlapping

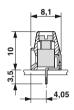
Low-profile design, with 55° angled connection direction and housing overlapping

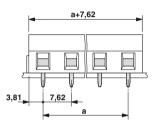


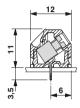
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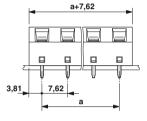
Dimensional drawing

Dimensional drawing



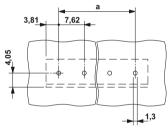


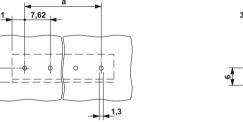


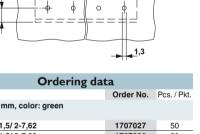


Drilling diagram

Drilling diagram







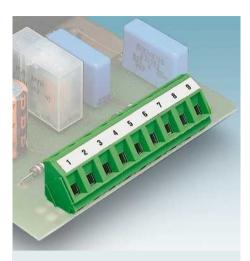
Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 7.62 mm, color: green					
GMKDSN 1,5/ 2-7,62	1707027	50			
GMKDSN 1,5/ 3-7,62	1707030	50			
GMKDSN 1,5/ 4-7,62	1707043	50			
GMKDSN 1,5/ 5-7,62	1707056	50			
GMKDSN 1,5/ 6-7,62	1707069	50			
GMKDSN 1,5/7-7,62	1707072	50			
GMKDSN 1,5/ 8-7,62	1707085	50			
GMKDSN 1,5/ 9-7,62	1707108	50			
GMKDSN 1,5/10-7,62	1707111	50			
GMKDSN 1,5/11-7,62	1707124	50			
GMKDSN 1,5/12-7,62	1707137	50			

<u>a</u> →
7,62
—
- -
<u>+ </u>
(())

→ 1,3

Ordering data						
Туре	Order No.	Pcs. / Pkt.				
Pitch 7.62 mm, color: green	Pitch 7.62 mm, color: green					
GSMKDSN 1,5/ 2-7,62	1718605	50				
GSMKDSN 1,5/ 3-7,62	1718618	50				
GSMKDSN 1,5/ 4-7,62	1718621	50				
GSMKDSN 1,5/ 5-7,62	1718634	50				
GSMKDSN 1,5/ 6-7,62	1718647	50				
GSMKDSN 1,5/ 7-7,62	1718650	50				
GSMKDSN 1,5/ 8-7,62	1718663	50				
GSMKDSN 1,5/ 9-7,62	1718676	50				
GSMKDSN 1,5/10-7,62	1718689	50				
GSMKDSN 1,5/11-7,62	1718692	50				
GSMKDSN 1,5/12-7,62	1718702	50				

Connection cross section of up to 1.5 mm²



GMKDS 1,5/...

- Single-row PCB terminal blocks for 630 V applications with a 7.62 mm pitch
- Can be connected in series with the corresponding standard models of the MKDS 1,5 range

GSMKDSP 1,5/...

- Conductor and screwdriver axis at an angle of 35° to the PCB
- An arrangement of several terminal block rows one behind the other multi-level effect with the same design
- With an integrated 2.3 mm Ø test connection

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.





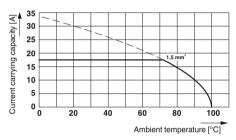


Detection lug for models with 7.62 mm inch pitch

Accessories			
For all types	Type Screwdriver SZS 0,6 x 3,5 Order No. 1205053	Page	
•]	Marker cards SK 7,5/5 or SK 7,62/5	800	
Only for GSMKDSP 1,5	Test plug MPS	831	
and the same of th	Reducing plug RPS Order No. 0201647	831	

Current carrying capacity curve

Type: GMKDS 1,5/2 and GMKDS 1,5/3 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical dat	a
Technical data in accordance to IEC / DIN \	/DE
Rated current / conductor cross section	
Rated insulation voltage for pollution degree	[A] / [mm²
nated insulation voltage for politilon degree	ez [v
Pitch	[mm
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWC
Stranded with ferrules without plastic sleeve	e [mm²
Stranded with ferrules with plastic sleeve	[mm ²
Multi-conductor connection capacity (two conductors	with the same cross section)
Solid / stranded	[mm ²
Stranded with ferrules without plastic sleeve	e [mm²
Stranded with TWIN ferrule with plastic slee	eve [mm²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWO
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWO
General data	
Stripping length	[mm
Screw thread	-
Tightening torque	[Nm
Type of insulation material / insulation mate	rial group
Inflammability class according to UL 94	-
Drill hole diameter / pin dimensions	[mm

GI	GMKDS 1,5/			GSMKDSP 1,5/		
_	17.5 ¹) / 1.5	5		17.51) / 2.5		
	630		630			
	7.5 / 7.62		7.5 / 7.62			
	7.5/7.02		7.5 / 7.62			
014-14	5 / 0.14 - 1.	5/26-16	0 14 - 2 5	/ 0.14 - 1.	5 / 26 - 14	
0.14-1.0	0.25 - 1	3720-10	0.14-2.3	0.25 - 1.5	3/20-14	
-	0.25 - 1			0.25 - 1.5		
	3.20			5.20 1.0		
	- 1 / 0.14 -	0.75	0.14	- 1 / 0.14 -	0.75	
	0.25 - 0.5			0.25 - 0.5		
	0.5 - 1			0.5 - 1		
III/3	III/2	II / 2	III/3	III/2	II / 2	
500	630	1000	500	630	1000	
6	6	6	6	6	6	
В	С	D	В	С	D	
300	-	300	300	-	300	
10	-	10	10	-	10	
30 - 14	-	30 - 14	30 - 14	-	30 - 14	
В	С	D	В	С	D	
300	-	300		-	-	
10	-	10		-	-	
28 - 14	-	28 - 14	-	-	-	
	6.5			7		
	M3			M3		
	0.5 - 0.6			0.5 - 0.6		
	PA/I			PA/I		
	VO			V0		
1.3	1.3 / 0.9 x 0.9 mm			/ 0.9 x 0.9	mm	

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
2	7.62
3	15 24

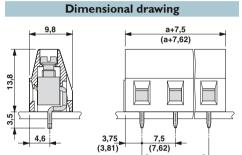




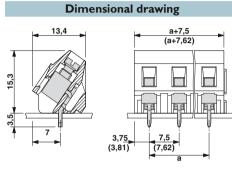
With horizontal connection direction and housing overlapping

With 35° angled connection direction and housing overlapping





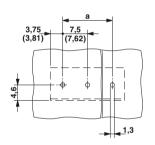
c¶Lus € ≦€ CCA

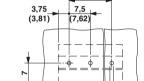


Drilling diagram

Drilling diagram

(3,81)

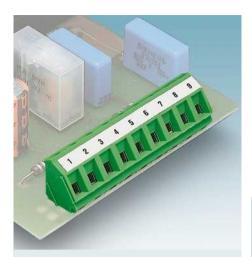




Ordering data				
Туре	Order No.	Pcs. / Pkt.		
7.5 mm pitch, color: green				
GMKDS 1,5/ 2	1717020	250		
GMKDS 1,5/3	1717033	250		
Pitch 7.62 mm, color: green				
GMKDS 1,5/ 2-7,62	1717729	250		
GMKDS 1,5/ 3-7,62	1717732	250		

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
7.5 mm pitch, color: green			
GSMKDSP 1,5/2	1718029	250	
GSMKDSP 1,5/3	1718032	250	
Pitch 7.62 mm, color: green			
GSMKDSP 1,5/ 2-7,62	1718728	250	
GSMKDSP 1.5/ 3-7.62	1718731	250	

Connection cross section of up to 2.5 mm²



- Single-row PCB terminal blocks for 630 V applications with a 7.62 mm pitch
- Can be connected in series with corresponding standard models of the MKDS 3 range

GMKDSP 3/...

- With an additionally integrated test connection to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors

GSMKDS 3/...

- Conductor and screwdriver axis at an angle of 35° to the PCB
- An arrangement of several terminal block rows one behind the other multi-level effect with the same design

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 7.5 mm pitch



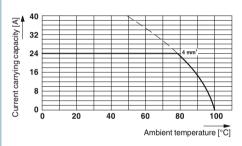
Detection lug for models with 7.62 mm inch pitch

Accessories			
For all types	Туре	Page	
a .	Marker cards SK 7,5/5 or SK 7,62/5	800	
-	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
Only for GMKDS 3 and	GMKDSP 3		
	Single cover for individual terminal positions EA-MKDS Order No. 1711408		
Only for GMKDSP 3			
	Toet plug	021	

	1711400			
Only for GMKDSP 3				
Mu	Test plug MPS	831		
and a	Reducing plug RPS Order No. 0201647	831		
m	Test plug SPB 5-MKDS 3 Order No. 1301216	833		

Current carrying capacity curve

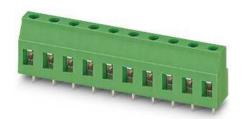
Type: GMKDS 3/2 and GMKDS 3/3 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



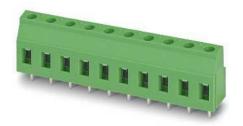
Technical data	l
Technical data in accordance to IEC / DIN VI)F
Rated current / conductor cross section	[A] / [mm²
Rated insulation voltage for pollution degree	
Tation modalism voltage for political dog. 55	
Pitch	[mm
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWC
Stranded with ferrules without plastic sleeve	[mm²
Stranded with ferrules with plastic sleeve	[mm²
Multi-conductor connection capacity (two conductors wi	th the same cross section)
Solid / stranded	[mm ²
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with TWIN ferrule with plastic sleev	re [mm²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWC
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWO
General data	
Stripping length	[mm
Screw thread	•
Tightening torque	[Nm
Type of insulation material / insulation materi	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm

GI	MKDS 3/		GMKDSP 3/		GSMKDS 3/			
	241) / 4			241) / 4		241) / 4		
	630			630		630		
	7.5 / 7.62			7.5 / 7.62		7.5 / 7.62		
	7.077.02			7.077.02		7.377.02		
0.2 - 4	0.2 - 2.5	24 - 12	0.2 - 4 /	0.2 - 2.5 /	24 - 12	0.2 - 4 /	0.2 - 2.5	24 - 12
	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5	
	0.25 - 2.5			0.25 - 2.5		-	0.25 - 2.5	
0.2	- 1.5 / 0.2	- 1.5	0.2	- 1.5 / 0.2	- 1.5	0.2	- 1.5 / 0.2	- 1.5
	0.25 - 0.75	5		0.25 - 0.75	5		0.25 - 0.75	5
	0.5 - 1.5			0.5 - 1.5		0.5 - 1.5		
III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	II / 2
500	630	1000	500	630	1000	500	630	1000
6	6	6	6	6	6	6	6	6
В	С	D	В	С	D	В	С	D
250	-	300	250	-	300	250	-	300
15	-	10	15	-	10	15	-	10
30 - 12		30 - 12	30 - 12	-	30 - 12	30 - 12	-	30 - 12
В	С	D	В	С	D	В	С	D
300	-	300		-		300	-	300
10	-	10		-		10	-	10
28 - 12	-	28 - 12	-	-		28 - 12	-	28 - 12
	8			7			8	
-	M3			M3			M3	
-	0.5 - 0.6	 -		0.5 - 0.6 0.5 - 0.6				
-	PA / I			PA / I				
	V0			V2		V0		
1.3	/ 0.9 x 0.9	mm	1.3	/ 0.9 x 0.9	mm	1.3 / 0.9 x 0.9 mm		
	0.0			// 0.0				

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
2	7.62
3	15 2/



With housing overlapping



With test connection and housing overlapping

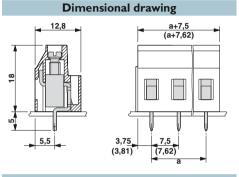


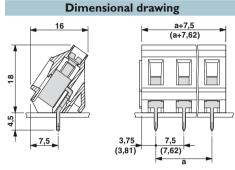
With 35° angled connection direction and housing overlapping

(£, 51) us (€ <u>≤</u> (£) CCA

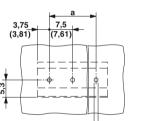
Dimensional drawing 11,2 a+7,5 (a+7,62) 3,75 (3,81) (7,62)

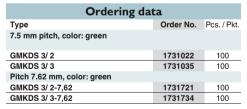
CCA CB



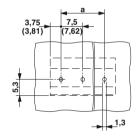


Drilling diagram









Ordering data			
Туре	Order No.	Pcs. / Pkt.	
7.5 mm pitch, color: green			
GMKDSP 3/2	1732021	50	
GMKDSP 3/3	1732034	50	
Pitch 7.62 mm, color: green			
GMKDSP 3/ 2-7,62	1732720	50	
GMKDSP 3/ 3-7.62	1732733	50	

-	а	•	

_7,5 (7,62)

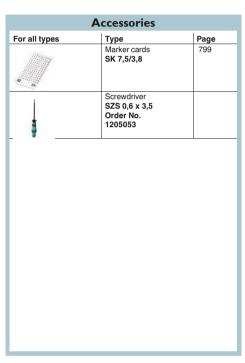
Drilling diagram

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: green		
GSMKDS 3/2	1733020	100
GSMKDS 3/3	1733033	100
Pitch 7.62 mm, color: green		
GSMKDS 3/ 2-7,62	1733729	100
GSMKDS 3/ 3-7,62	1733732	100

Connection cross section of up to 2.5 mm²

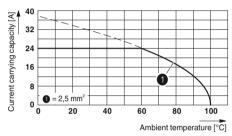


- PCB terminal block ME MAX electronic
- PCB terminal block is orthogonal to the **PCB**
- "Left" and "right" design
- 7.5 mm pitch
- 2 and 3-pos.



Current carrying capacity curve Type: MKDSO 2,5 HV/3L-7,5 KMGY Tested in accordance with DIN EN 60512-5-2: 2003-01 Reduction factor: 1

No. of positions: 3



Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	n the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Tightening torque Type of insulation material / insulation materia	
• • •	

MKDSO 2,5 HV/L-7,5 KMGY		MKDSO 2,5 HV/R-7,5 KMGY				
	24 / 2.5			24 / 2.5		
	630			630		
	7.5			7.5		
00.01	5 / 0.2 - 2.5 /	/04 14	0.0.0	.5 / 0.2 - 2.5	/04 14	
0.2 - 2.3	0.25 - 2.5	24 - 14	0.2 - 2	0.25 - 2.5	/ 24 - 14	
-	0.25 - 2.5			0.25 - 2.5		
	0.25 - 2.5			0.25 - 2.5		
0.2 -	0.75 / 0.25 -	0.75	0.2	- 0.75 / 0.25	- 0.75	
	0.25 - 0.75			0.25 - 0.75		
-	0.25 - 1.5			0.25 - 1.5		
III/3	III/2	II / 2	III/3	III/2	II/2	
600	630	1000	600	630	1000	
6	6	6	6	6	6	
В	С	D	В	С	D	
300	300	600	300	300	600	
20	20	5	20	20	5	
30 - 12	30 - 12	30 - 12	30 - 12	30 - 12	30 - 12	
В	С	D	В	С	D	
	-	-		-	-	
	-	-		•	-	
-	-	-	-	-	-	
	8			8		
	M3		M3			
	0.5 - 0.6			0.5 - 0.6		
PA/I			PA/I			
V0 1.4 / 0.8 mm x 1 mm		V0				
1.4/	o.g mm x 1	mm	1.4 / 0.8 mm x 1 mm			

No. of pos.	Dim. a [mm]
2	7.50
3	15.00





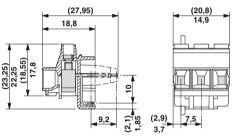
With "left" solder pins leading off at a right angle

With "right" solder pins leading off at a right angle

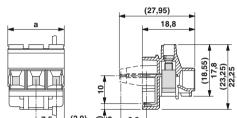
Dimensional drawing



Dimensional drawing

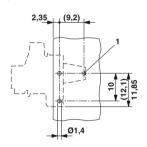


LANUS COA CA



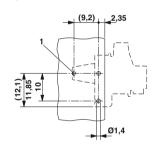
Drilling diagram

Drill hole 1 only for 3-pos. version



Drilling diagram

Drill hole 1 only for 3-pos. version



Ordering data

Type
PCB terminal block, high-current-compatible, only for ME
MAX housing, 7.5 mm pitch, color: light gray Order No. Pcs. / Pkt.

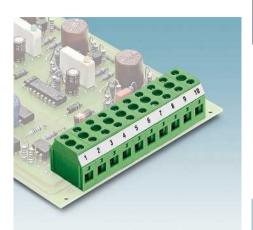
3, 1 , 1	3 3 7	
MKDSO 2,5 HV/ 2L-7,5 KMGY	2199676	50
MKDSO 2.5 HV/ 31-7.5 KMGY	2890946	50

Ordering data

Order No. Pcs. / Pkt. Туре PCB terminal block, high-current-compatible, only for ME

MAX nousing, 7.5 mm pitch, color: light gray			
MKDSO 2,5 HV/ 2R-7,5 KMGY	2199773	50	
MKDSO 2,5 HV/ 3R-7,5 KMGY	2890959	50	

Single terminal blocks of up to 4 mm²



- Rugged single terminal block
- Double solder pin for high stability on the PCB
- Low-heat generating current transfer in the conducting path
- Increase in voltage with pitch spacers
- Allows a through wiring with a separate exit to the PCB
- A plate-type design enables blocking for larger number of positions

Technical data

Notes:

1) It achieves 500 V when a RZ-KDS 4 pitch spacer is inserted.

2) Current carrying capacity between the conductor connections: 41 A; for solder connection: 32 A. Please observe the current carrying capacity curve. Other current carrying capacity curves are available on request.

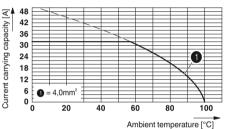
Accessories				
For all types	Туре	Page		
a .	Marker cards SK 7,5/3,8	799		
1	Pitch spacer, width: 2.5 mm RZ-KDS 4 Order No. 1705058			
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053			
Only for KDSP 4				
Will the state of	Test plug MPS	831		
Sel.	Reducing plug RPS Order No. 0201647	831		

Current carrying capacity curve

Type: KDS 4

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1

No. of positions: 5



rechnical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	[V]
nated insulation voltage for politition degree 2	[v]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm²] /	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	e cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

KDS 4			KDSP 4			
	412) / 6			412) / 6		
	320			320		
	7.5			7.5		
	7.5			7.5		
02-6	/ 0.2 - 4 / :	24 - 10	02-6	/0.2-4/	24 - 10	
0.2 - 0	0.25 - 4	LT - 10	0.2 - 0	0.25 - 4	24-10	
	0.25 - 4			0.25 - 4		
0.2	- 1.5 / 0.2	- 1	0.2	- 1.5 / 0.2	2 - 1	
	0.25 - 1			0.25 - 1		
	0.5 - 2.5			0.5 - 2.5		
III/3	III/2	11/2	III/3	III/2	11/2	
320¹)	320	630	3201)	320	630	
4	4	4	4	4	4	
В	С	D	В	С	D	
300	-	300	300	-	300	
30	-	10	30	-	10	
30 - 10	-	30 - 10	30 - 10	-	30 - 10	
В	С	D	В	С	D	
300	-	300	300	-	300	
30	-	10	30	-	10	
28 - 10	-	28 - 10	28 - 10	-	28 - 10	
	8		8			
	M3 0.6 - 0.8		M3			
	PA/I		0.6 - 0.8 PA / I			
	V0		V0			
1.3	1.3 / 0.9 x 0.9 mm		1.3 / 0.9 x 0.9 mm			
1.3 / 0.9 x 0.9 mm		1.3 / 0.9 x 0.9 11111				

No. of pos.





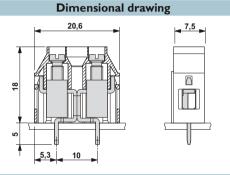
Single terminal block

Single terminal block with test connection



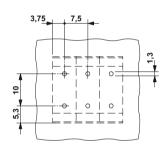
Dimensional drawing 20,6 \cap

D 20 11 12 19

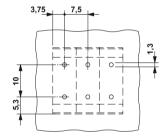


Drilling diagram

Drilling diagram







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
7.5 mm pitch, color: green				
KDSP 4	1780536	50		

Connection cross section of up to 1.5 mm²



Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

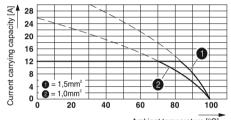
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

- Pitch: 3.81 mm
- Single-level PCB single terminal blocks with spring-cage connection
- A plate-type design enables blocking for larger number of positions
- Double solder pin for high stability on the PCB
- W-type with an orange opening lever, enables operation of the terminal point without tools
- Delivery form: position discs in blocks of
- Products with various numbers of positions with an end terminal can be supplied on request

Accessories				
For all types	Туре	Page		
4 4	Marker cards SK 3,81/2,8	797		
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504			
	Ferrules with and without plastic sleeve	834		
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034			

Current carrying capacity curve Type: ZFKDS 1-3,81

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Ambient temperature [°C]

Technical data	
Technical data in accordance to IEC / DIN VD	-
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

70	WD0 4 0 0		751	(DO 4 W 6	. 04
ZFKDS 1-3,81		ZFI	KDS 1-W-3	5,81	
-	121) / 1.5		-	121) / 1.5	
	200			200	
	3.81			3.81	
	0.01			0.01	
0.14 - 1.	5 / 0.14 - 1	/ 26 - 16	0.14 - 1.	5 / 0.14 - 1	/ 26 - 16
	0.25 - 0.5			0.25 - 0.5	
	0.25 - 0.5			0.25 - 0.5	
III/3	III/2	II / 2	III/3	III/2	II / 2
200	200	400	160	200	400
2.5	2.5	2.5	2.5	2.5	2.5
В	С	D	В	С	D
250	-	300	250	-	300
10	-	10	10	-	10
26 - 16	-	26 - 16	26 - 16	-	26 - 16
В	С	D	В	С	D
	-	-		-	-
	-	-		-	-
-	-	-	-	-	-
	7.5			7.5	
	PA/I		PA/I		
- 10	V0 1.2 / 0.7 x 0.8 mm		V0 1.2 / 0.7 x 1 mm		
1.2	/ U./ X U.8	mm	1.2	2/U./XII	nm

No. of pos.	
·	
1	
1	



Without actuation rocker, with housing overlapping

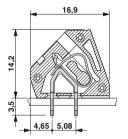


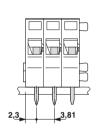
With actuation rocker and housing overlapping

Dimensional drawing

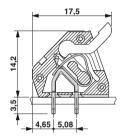


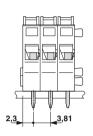
Dimensional drawing





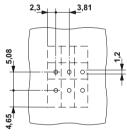
D 20 LP2



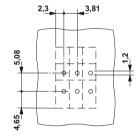


Drilling diagram

Drilling diagram

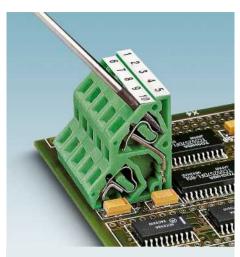


Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 3.81 mm, color: green					
ZFKDS 1-3,81	1704978	50			
End terminal block, 6.35 mm wide, necessary at the end of a row of terminal blocks					
ZFKDSA 1-6,35	1704981	50			



Ordering da	ıta	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: green		
ZFKDS 1-W-3,81	1705003	50
End terminal block, with actuation roc essary at the end of a row of terminal		vide, nec-
ZFKDSA 1-W-6.35	1704994	50

Connection cross section of up to 1.5 mm²



- 5.0 or 5.08 mm pitch
- Single and double-level PCB single terminal blocks with spring-cage connec-
- A plate-type design enables blocking for larger number of positions
- Double solder pin for high stability on the PCB
- Compact housing dimensions
- W-type with an orange opening lever, enables operation of the terminal point without tools
- Delivery form: position discs in blocks of
- Products with various numbers of positions with an end terminal can be supplied on request

Notes:

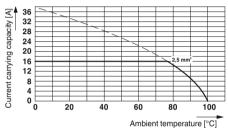
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories For all types Туре Page Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517 Ferrules with and without plastic sleeve Crimping pliers for 0.25 to 6 mm CRIMPFOX 6 Order No. 1212034 Only for ZFKDS 1,5C-5,0 and ZFKKDS 1,5C-5,0 Marker cards SK 5/3,8 Only for ZFKDS 1,5-W-5,08 Marker cards 798 SK 5.08/3.8 Pitch spacer, width: 2.54 mm RZ-ZFKDS 1,5 Order No. 1870666

Current carrying capacity curve

Type: ZFKDS 1,5C-5,0 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



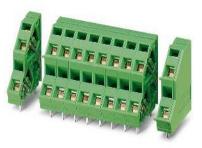
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V
Pitch	[mm]
Connection capacity	
Solid / stranded [i	mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

ZFK	ZFKDS 1,5C-5,0		ZFKKDS 1,5C-5,0		ZFK	DS 1,5-W	-5,08	
	16¹) / 2.5			161) / 2.5			161) / 2.5	
	400			400			400	
	5			5			5.08	
0.2 - 2.5	/ 0.2 - 1.5			/ 0.2 - 1.5			/ 0.2 - 1.5	
-	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5	
	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5	
III / O	III / O	II/2	III/3	III/2	II/2	III. / O	III/2	11.70
III/3	III / 2					III / 3		11/2
250 4	400	630	250 4	400	630	250 4	400	630
4 B	C C	D D	B B	C C	D D	B B	C C	D D
250	-	300	250	-	300	-	-	-
10		10	10		10			
26 - 12		26 - 12	26 - 12		26 - 12			
B	С	D	В	С	D	В	С	D
-	-		-	-		300	-	300
-	-	-		-	-	10	-	10
-	-	-	-	-	-	28 - 12	-	28 - 12
	7		7			7.5		
	PA/I			PA/I PA/I				
	V0		V0 V0					
1	1.1 / 0.7 x 0.7		1.1 / 0.7 x 0.7 mm		1.3	3/0.7 x 1 r	mm	

No. of pos.	
1	
1	
1	
1	
1	



Compact design, without actuation rocker



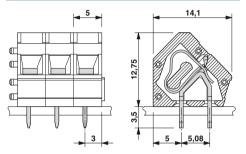
Double-level PCB terminal block, compact design, without actuation rocker



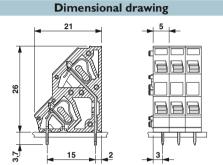
With actuation rocker



Dimensional drawing

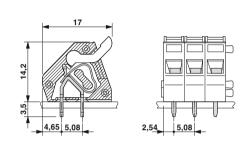






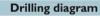
® P KEMA CCA CB.

Dimensional drawing

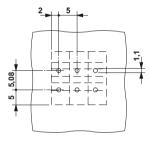


Drilling diagram

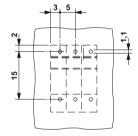




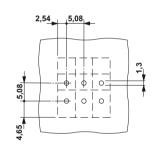
Drilling diagram



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.0 mm pitch, color: green					
ZFKDS 1,5C-5,0	1889259	50			
End terminal, 6.4 mm wide, necessary terminal blocks	at the end of	a row of			
ZFKDSA 1,5C-6,0	1889262	50			



Ordering data						
Туре	Order No.	Pcs. / Pkt.				
5.0 mm pitch, color: green						
ZFKKDS 1,5C-5,0	1889301	50				
End terminal block, 5 mm wide, necess a row of terminal blocks (left), if a smo sired						
ZFKKDSA 1,5C-5,0 L	1889275	50				
End terminal block, necessary at the e blocks (right)	nd of a row of	terminal				
ZFKKDSA 1,5C-6,0 R	1889288	50				

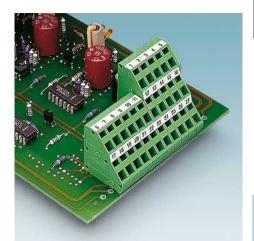


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
ZFKDS 1,5-W-5,08	1706714	250		
End terminal block, with actuation rocker, 7.62 mm wide, necessary at the end of a row of terminal blocks				
7FKDSA 1.5-W-7.62	1706730	250		

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with spring-cage connection for wave soldering processes, currents up to 24 A

Connection cross section of up to 1.5 mm²



- 5.08 mm pitch
- Three and four-level PCB single terminal blocks with spring-cage connection
- A plate-type design enables blocking for larger number of positions
- Pin-compatible with screw connection of PCB terminal blocks MK3DS 1,5 and MK4DS 1,5; two alternative connection technologies are thus available for the same application without complex changes in the layout.
- Delivery form: position discs in blocks of 10
- Products with various numbers of positions with an end terminal can be supplied on request

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

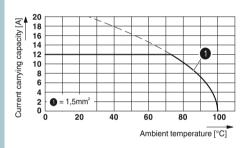
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories				
For all types	Туре	Page		
	Marker cards SK 5,08/3,8	798		
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517			
	Ferrules with and without plastic sleeve	834		
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034			

Current carrying capacity curve

Type: ZFK3DS 1,5-5,08 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1

No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation materia	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

ZFK3DS 1,5-5,08		ZFK	(4DS 1,5-	5,08		
	121) / 2.5			121) / 2.5		
	400			400		
	5.08			5.08		
0.2 - 2.5	/ 0.2 - 1.5		0.2 - 2.5	/ 0.2 - 1.5		
	0.25 - 1.5			0.25 - 1.5		
	0.25 - 1.5			0.25 - 1.5		
III/3	III/2	II/2	III/3	III/2	II / 2	
250	400	630	250	400	630	
4	4	4	4	4	4	
В	С	D	В	С	D	
250	-	300	250	-	300	
10	-	10	10	-	10	
26 - 12	-	26 - 12	26 - 12	-	26 - 12	
В	С	D	В	С	D	
300	-	300		-	-	
10	-	10		-	-	
28 - 12	-	28 - 12	-	-	-	
	7.5			7.5		
	PA/I PA/I					
	V0 V0					
1.3	3 / 0.7 x 1 r	nm	1.3	3 / 0.7 x 1 r	nm	

No. of pos.	
1	
1	
1	

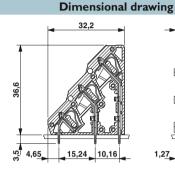


Three-level PCB terminal block

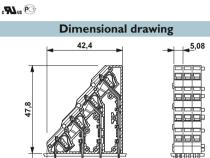


Four-level PCB terminal block





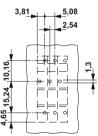




Drilling diagram

Drilling diagram

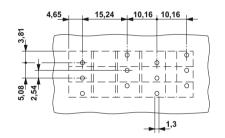
10,16





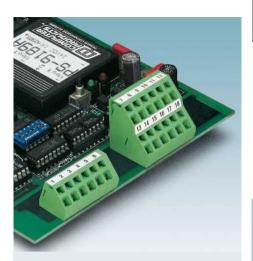
1706167

ZFK3DSA 1,5-5,08-DS



Ordering data				
Order No.	Pcs. / Pkt.			
1869910	50			
essary at the	end of a			
1869923	50			
	Order No. 1869910 essary at the			

Connection cross section of up to 2.5 mm²



- 5.08 mm pitch
- A plate-type design enables blocking for larger number of positions
- Double solder pin for high stability on the PCB
- Delivery form: position discs in blocks of
- Products with various numbers of positions with an end terminal can be supplied on request

Notes:

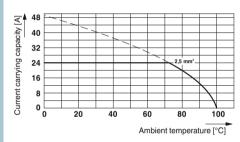
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Α	ccessories	
For all types	Туре	Page
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
•	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
· .	Marker cards SK 5,08/3,8	798
Only for ZFKDS 2.5-5.08		
0	Pitch spacer, width: 2.54 mm RZ-ZFKDS 2,5 Order No. 1931039	
Only for ZFKKDS 2,5-5,0	08	
1	Pitch spacer, width: 2.54 mm RZ-ZFKKDS 2,5 Order No. 1934612	

Current carrying capacity curve

Type: ZFKDS 2,5-5,08 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	f1
1 11011	[mm]
Connection capacity	2010 201110
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

ZFK	ZFKDS 2,5-5,08			ZFKKDS 2,5-5,08		
	241) / 4			17.51)/4		
	400			400		
-	5.08			5.08		
0.2 - 4	0.2 - 2.5	24 - 12	0.2 - 4	0.2 - 2.5 /	24 - 12	
	0.25 - 2.5			0.25 - 2.5		
	0.25 - 1.5			0.25 - 1.5		
			0.200			
III/3	III/2	II / 2	III/3	III/2	11/2	
250	400	630	250	400	630	
4	4	4	4	4	4	
В	С	D	В	С	D	
250	-	300	250 - 300			
10	-	10	10 - 10			
26 - 12	-	26 - 12	26 - 12	-	26 - 12	
В	С	D	В	С	D	
	-	-		-	-	
	-	-		-	-	
-	-	-	-	-	-	
	7			7		
	PA/I			PA/I		
	V0			V0		
1.3	/ 0.8 x 0.8	mm	1.3 / 0.8 x 0.8 mm		mm	

No. of pos.	
1	
1	
1	



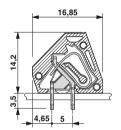


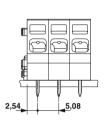


Double-level PCB terminal block

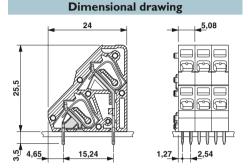


Dimensional drawing



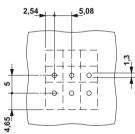


PLus 🕑



Drilling diagram

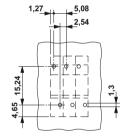






ZFKDSA 2,5-6,08 R

1905010



Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
ZFKKDS 2,5-5,08	1905023	50		
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is de- sired				
ZFKKDS 2,5-5,08 L	1905227	50		
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks (right)				
ZFKKDSA 2,5-6,08 R	1905036	50		

Ordering data

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A

Angled conductor connection of up to 1 mm²

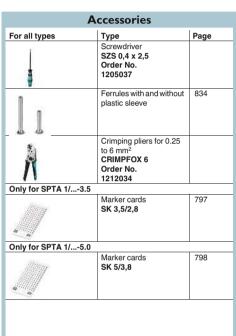


- Angled PCB terminal block with 3.5/5.0 mm pitch with integrated touch connection
- Convenient and fast conductor connection using push-in direct plug-in system
- Easy operation when loosening the conductor using an orange actuating lever
- Different pitch dimensions can be combined depending on product range
- Arrangement of several rows for high packing densities possible
- Compact design with only 10 mm constructional depth
- Drilling diagram and dimensions are the same shape as the reliable screw connection SMKDS 1

Notes:

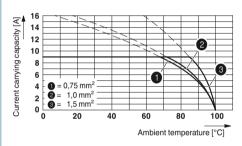
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Current carrying capacity curve

Type: SPTA 1 ...3,5 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5

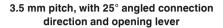


Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[manual
1 11011	[mm]
Connection capacity Solid / stranded	[mam=21 / [mam=21 / ANA/C
	[mm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SP	TA 1/3	3,5	SF	PTA 1/	5,0	
	91) / 1.5			91) / 1.5		
	200			320		
	0.5		-			
	3.5			5		
0.0 1	5 / 0.2 - 1 /	/04 10	0.0 1	5/0.2-1/	04 10	
	0.25 - 0.75			0.25 - 0.75		
	0.25 - 0.75			0.25 - 0.75		
	0.23 - 0.73	,	,	0.23 - 0.70	,	
III/3	III/2	11/2	III/3	III/2	11/2	
160	200	400	250	320	630	
2.5	2.5	2.5	4	4	4	
В	С	D	В	С	D	
150	-	300	150 - 300			
10	-	10	10 - 10			
26 - 16	-	26 - 16	26 - 16	-	26 - 16	
В	С	D	В	С	D	
	-	-		-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
	8			8		
	PA/I			PA / I		
	VO			V0 1.1 / 0.6 x 1.0 mm		
1.1	1.1 / 0.6 x 1.0 mm			/ U.6 X 1.0	mm	

No. of pos.	Dim. a [mm]
2	3.50
3 4	7.00
4	10.50
5 6	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00



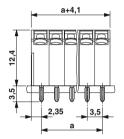


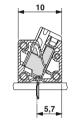


5 mm pitch, with 25° angled connection direction and opening lever

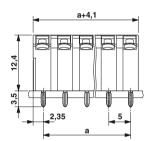
CCA CB

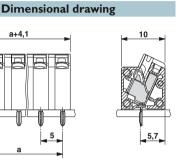






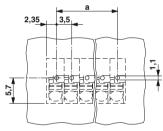
CCA CB

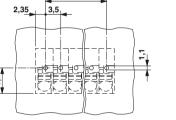




Drilling diagram

Drilling diagram





	5,7	
		Ordering data
l/t	Tyme	

Ordering data			
Туре	Order No.	Pcs. / Pkt	
3.5 mm pitch, color: green			
SPTA 1/ 2-3,5	1752104	100	
SPTA 1/ 3-3,5	1752117	100	
SPTA 1/ 4-3,5	1752120	50	
SPTA 1/ 5-3,5	1752133	50	
SPTA 1/ 6-3,5	1752146	50	
SPTA 1/ 7-3,5	1752159	50	
SPTA 1/ 8-3,5	1752162	50	
SPTA 1/ 9-3,5	1752175	50	
SPTA 1/10-3,5	1752188	50	
SPTA 1/11-3,5	1752191	50	
SPTA 1/12-3,5	1752201	50	

Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPTA 1/ 2-5,0	1752214	100
SPTA 1/ 3-5,0	1752217	100
SPTA 1/ 4-5,0	1752227	50
SPTA 1/5-5,0	1752243	50
SPTA 1/6-5,0	1752256	50
SPTA 1/7-5,0	1752269	50
SPTA 1/8-5,0	1752272	50
SPTA 1/ 9-5,0	1752285	50
SPTA 1/10-5,0	1752298	50
SPTA 1/11-5,0	1752308	50
SPTA 1/12-5,0	1752311	50

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A

Angled conductor connection of up to 1.5 mm²



- Angled PCB terminal block with 3.81/5.08 mm pitch with integrated touch connection
- Convenient and fast conductor connection using push-in direct plug-in system
- Easy operation when loosening the conductor using an orange actuating lever
- Different pitch dimensions can be combined depending on product range
- Front pin is a solder pin for additional mechanical stability only, it does not have any electrical properties

Notes:

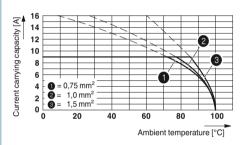
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Current carrying capacity curve

Type: SPTA 1,5 ...3,81 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 0.8 No. of positions: 5

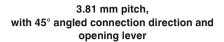


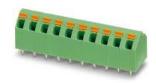
Technical data	
Technical data in accordance to IEC / DIN VDI	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	Įıj
. ,	[mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Insulation coordination	[]
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SPTA 1,5/3,81		SPTA 1,5/5,08		
91) / 1.5			91) / 1.5	
160			320	
			= 00	
3.81			5.08	
0.2 - 1.5 / 0.2 - 1.5		0.2 - 1.5	/ 0.2 - 1.5	
0.25 - 1.5			0.25 - 1.5	
0.25 - 1.5			0.25 - 1.5	
W / 9	11.70		III / O	11.70
III/3 III/2	11/2	III/3	III/2	11/2
160 160	320	250	320	630
2.5 2.5	2.5	4	4	4
В С	D	В	С	D
300 -	-	300	-	300
10 -	-	10	-	10
26 - 16 -	-	26 - 16	-	26 - 16
в с	D	В	С	D
	-	_	-	-
	-		-	-
	-	-	-	-
1010				
PA/I	PA/I			
V0	V0		V0	
1.1 / 0.6 x 1.0	mm	1.1 / 0.6 x 1.0 mm		mm

No. of pos.	Dim. a [mm]
2	3.81
3 4	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
2	5.08
3	10.16
4	15.24
3 4 5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88





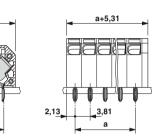


5.08 mm pitch, with 45° angled connection direction and opening lever

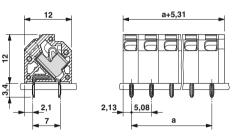
Dimensional drawing



Dimensional drawing

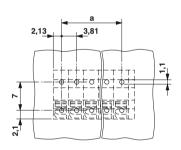


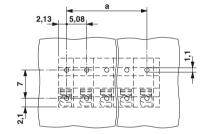




Drilling diagram

Drilling diagram





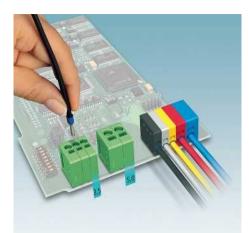
Ordering data			
Туре	Order No.	Pcs. / Pkt	
Pitch 3.81 mm, color: green			
SPTA 1,5/ 2-3,81	1751477	100	
SPTA 1,5/ 3-3,81	1751480	100	
SPTA 1,5/ 4-3,81	1751493	50	
SPTA 1,5/ 5-3,81	1751503	50	
SPTA 1,5/ 6-3,81	1751516	50	
SPTA 1,5/ 7-3,81	1743184	50	
SPTA 1,5/ 8-3,81	1751529	50	
SPTA 1,5/ 9-3,81	1751532	50	
SPTA 1,5/10-3,81	1751545	50	
SPTA 1,5/11-3,81	1743197	50	
SPTA 1,5/12-3,81	1751558	50	

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
SPTA 1,5/ 2-5,08	1751163	100		
SPTA 1,5/ 3-5,08	1744442	100		
SPTA 1,5/ 4-5,08	1751189	50		
SPTA 1,5/ 5-5,08	1751192	50		
SPTA 1,5/ 6-5,08	1751202	50		
SPTA 1,5/ 7-5,08	1751215	50		
SPTA 1,5/ 8-5,08	1751228	50		
SPTA 1,5/ 9-5,08	1751231	50		
SPTA 1,5/10-5,08	1751244	50		
SPTA 1,5/11-5,08	1751257	50		
SPTA 1,5/12-5,08	1751464	50		

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A

Horizontal or vertical conductor connection of up to 2.5 mm²



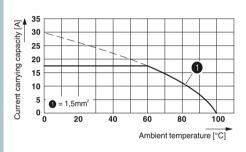
- PCB terminal blocks with front spring connection
- Pitch 3.5 mm
- Double solder pin for high stability on the PCB
- Generously dimensioned connection cross section with a compact 3.5 mm
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using standard screwdrivers
- Horizontal and vertical types
- Larger numbers of positions on request
- Can be combined with the 5.0 mm pitch

Notes:				
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.				
Please observe the current carrying capacity curves. Further current carrying capacity curves on request.				
2) Voltages with pitch sp	pacer			
	III/3	III/2	II/2	
With RZ-SPT-2,5-2,5	320 V	400 V	630 V	
With RZ-SPT-2,5-5,0	500 V	630 V	800 V	

Accessories				
For all types	Туре	Page		
4	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504			
4 4	Marker cards SK 3,5/2,8	797		
1	Pitch spacer, width: 2.5 mm RZ-SPT 2,5-2,5 Order No. 1772595			
1	Pitch spacer, width: 5 mm RZ-SPT 2,5-5,0 Order No. 1772605			
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034			

Current carrying capacity curve Type: SPT 1,5/5-3,5-H

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SPT 1	SPT 1,5/H-3,5 SPT 1,5/V-3		3,5		
17	'.5¹) / 1.5			17.5 ¹) / 1.5	
	2002)			2002)	
-	3.5			3.5	
	0.5			0.5	
0.2 - 1.5 / (0.2 - 1.5	/ 24 - 16	0.2 - 1.5	5 / 0.2 - 1.5	/ 24 - 16
0.	.25 - 1.5			0.25 - 1.5	
0.2	25 - 0.75			0.25 - 0.75	
III/3	III/2	II / 2	III/3	III/2	11/2
160	200²)	400	160	200²)	400
2.5	2.5	2.5	2.5	2.5	2.5
В	С	D	В	С	D
150	-	300	150	-	300
10	-	10	10	-	10
24 - 16	24 - 16	24 - 16	24 - 16	24 - 16	24 - 16
В	С	D	В	С	D
	-	-	-	-	-
	-	-	-	-	-
-	-	-	-	-	-
	10		10		
	PA/I			PA/I	
	V0		V0		
1.1/0).8 x 0.8 ı	mm	1.1 / 0.8 x 0.8 mm		mm

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50

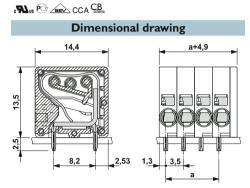


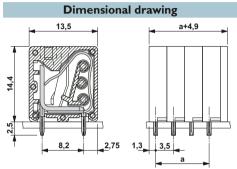


Connection direction parallel to the PCB

Connection direction vertical to the PCB

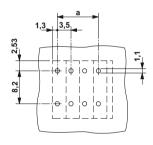
CCA CB

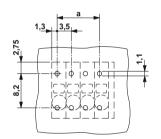




Drilling diagram

Drilling diagram





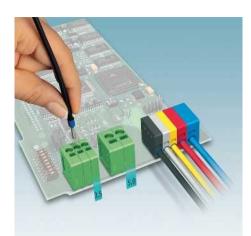
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
SPT 1,5/ 2-H-3,5	1990737	100	
SPT 1,5/ 3-H-3,5	1990740	100	
SPT 1,5/ 4-H-3,5	1990753	100	
SPT 1,5/ 5-H-3,5	1990766	100	
SPT 1,5/ 6-H-3,5	1990779	100	
SPT 1,5/ 7-H-3,5	1990782	50	
SPT 1,5/ 8-H-3,5	1990795	50	
SPT 1,5/ 9-H-3,5	1990805	50	
SPT 1,5/10-H-3,5	1990818	50	
SPT 1,5/11-H-3,5	1990821	50	
SPT 1,5/12-H-3,5	1990834	50	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
SPT 1,5/ 2-V-3,5	1990850	100	
SPT 1,5/ 3-V-3,5	1990863	100	
SPT 1,5/ 4-V-3,5	1990876	100	
SPT 1,5/ 5-V-3,5	1990889	100	
SPT 1,5/ 6-V-3,5	1990892	100	
SPT 1,5/ 7-V-3,5	1990902	50	
SPT 1,5/ 8-V-3,5	1990915	50	
SPT 1,5/ 9-V-3,5	1990928	50	
SPT 1,5/10-V-3,5	1990931	50	
SPT 1,5/11-V-3,5	1990944	50	
SPT 1,5/12-V-3,5	1990957	50	

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A

Horizontal or vertical conductor connection of up to 2.5 mm²



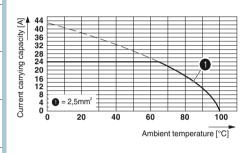
- PCB terminal blocks with front spring connection
- 5.0 mm pitch
- Double solder pin for high stability on the PCB
- Generously dimensioned connection cross section up to 2.5 mm²
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using standard screwdrivers
- Horizontal and vertical types
- Larger numbers of positions on request
- Can be combined with the 3.5 mm pitch

Notes:				
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.				
Please observe the current carrying capacity curves. Further current carrying capacity curves on request.				
2) Voltages with pitch spacer				
	III/3	III/2	II/2	
With RZ.SPT-2,5-2,5	400 V	630 V	800 V	
With RZ-SPT-2,5-5,0	630 V	800 V	1000 V	

	Accessories	
For all types	Туре	Page
•	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 5/3,8	798
1	Pitch spacer, width: 2.5 mm RZ-SPT 2,5-2,5 Order No. 1772595	
1	Pitch spacer, width: 5 mm RZ-SPT 2,5-5,0 Order No. 1772605	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Current carrying capacity curve Type: SPT 2,5/5-H-5,0

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]			
Rated insulation voltage for pollution degree 2	[V]			
Pitch	[mm]			
Solid / stranded	mm ²]/[mm ²]/AWG			
Stranded with ferrules without plastic sleeve	[mm ²]			
Stranded with ferrules with plastic sleeve	[mm ²]			
Insulation coordination				
Surge voltage category / pollution degree				
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
Approval data (UL/CUL)	Use Group			
Nominal voltage	[V]			
Nominal current	[A]			
Connection capacity AWG	AWG			
Approval data (CSA)	Use Group			
Nominal voltage	[V]			
Nominal current	[A]			
Connection capacity AWG	AWG			
General data				
Stripping length	[mm]			
Type of insulation material / insulation material	group			
Inflammability class according to UL 94	<u> </u>			
Drill hole diameter / pin dimensions	[mm]			
·				

SPT 2,5/H-5,0		SPT 2,5/V-5,0				
	241) / 4			241) / 4		
	4002)			4002)		
	5		5			
0.2 - 4	0.2 - 4 / 0.2 - 2.5 / 24 - 12		0.2 - 4 / 0.2 - 2.5 / 24 - 12			
	0.25 - 2.5			0.25 - 2.5		
	0.25 - 1.5			0.25 - 1.5		
III/3	III/2	II / 2	III/3	III/2	II / 2	
250	4002)	630	250	4002)	630	
4	4	4	4	4	4	
В	С	D	В	С	D	
300	-	300	300	-	300	
20	-	10	20	-	10	
24 - 12	24 - 12	24 - 12	24 - 12	24 - 12	24 - 12	
В	С	D	В	С	D	
	-	-		-	-	
-	-	-		-	-	
-	-	-	-	-	-	
	10			10		
	PA/I		PA/I			
	V0		V0			
1.1	1.1 / 0.8 x 0.8 mm		1.1	/ 0.8 x 0.8	mm	

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

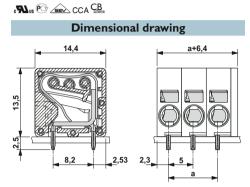


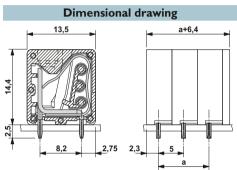


Connection direction parallel to the PCB

Connection direction vertical to the PCB

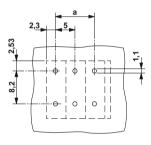
CCA CB

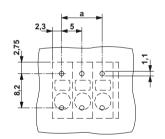




Drilling diagram

Drilling diagram





Ordering data						
Туре	Order No.	Pcs. / Pkt.				
5.0 mm pitch, color: green						
SPT 2,5/ 2-H-5,0	1990973	100				
SPT 2,5/ 3-H-5,0	1990986	100				
SPT 2,5/ 4-H-5,0	1990999	100				
SPT 2,5/ 5-H-5,0	1991008	100				
SPT 2,5/ 6-H-5,0	1991011	100				
SPT 2,5/ 7-H-5,0	1991024	50				
SPT 2,5/ 8-H-5,0	1991037	50				
SPT 2,5/ 9-H-5,0	1991040	50				
SPT 2,5/10-H-5,0	1991053	50				
SPT 2,5/11-H-5,0	1991066	50				
SPT 2,5/12-H-5,0	1991079	50				

Ordering data						
Туре	Order No.	Pcs. / Pkt.				
5.0 mm pitch, color: green						
SPT 2,5/ 2-V-5,0	1991095	100				
SPT 2,5/ 3-V-5,0	1991105	100				
SPT 2,5/ 4-V-5,0	1991118	100				
SPT 2,5/ 5-V-5,0	1991121	100				
SPT 2,5/ 6-V-5,0	1991134	100				
SPT 2,5/ 7-V-5,0	1991147	50				
SPT 2,5/ 8-V-5,0	1991150	50				
SPT 2,5/ 9-V-5,0	1991163	50				
SPT 2,5/10-V-5,0	1991176	50				
SPT 2,5/11-V-5,0	1991189	50				
SPT 2,5/12-V-5,0	1991192	50				

With actuation rocker with a connection cross section of up to 1 mm²



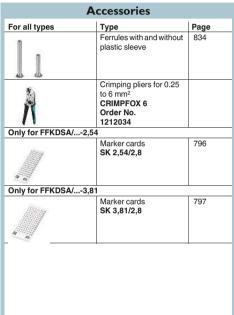
- PCB terminal blocks with front spring connection
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

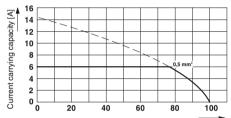
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

2) Only solid conductors



Current carrying capacity curve

Type: FFKDS/H-2,54 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Ambient temperature [°C]

Technical data in accordance to IEC / DIN VI)E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

FFKDS/H-2,54		FF	KDS/V-2,	54	FF	KDS/H-3	,81	
	$6^{1}) / 0.5$			$6^{1}) / 0.5$		-	121) / 1	
	160			160			160	
						-		
	2.54			2.54			3.81	
0.14 - 0.5 /	0.14 - 0.5	/ 26 - 20 ²)	0.14 - 0.5	/ 0.14 - 0.5	6 / 26 - 20		/ 0.14 - 1	
	-			-			0.25 - 0.3	
	-			-		(0.25 - 0.3	4
III/3	III/2	II/2	III/3	III/2	II/2	III/3	III/2	II/2
63	160	320	63	160	320	160	160	320
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2.3 B	C C	D.	2.3 B	C C	D.	2.3 B	C C	2.3 D
150	-	-	150	-	-	300	-	300
6			6			6		6
26 - 202)	-		26 - 202)	-		26 - 16 ²)	-	26 - 162)
В	С	D	В	С	D	В	С	D D
150	-		150	-		150	-	
6	-	-	6	-	-	10	-	-
20 ²)	-		20 ²)	-	-	26 - 18 ²)	-	-
,			,			,		
	11			11			10	
	PA/I			PA/I	-	-	PA/I	
-	V0			V0			V0	
1.1	0.5 x 0.8 ı	mm	1.1 / 0.5 x 0.8 mm		1.3 / 0.5 x 1 mm			
			-					

No. of p	os.	
	1	
	1	
	1	
	1	
	1	
	٠,	
	1	



2.54 mm pitch, with opening lever, conductor connection parallel to the PCB

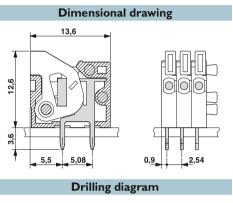


2.54 mm pitch, with opening lever, conductor connection vertical to the PCB

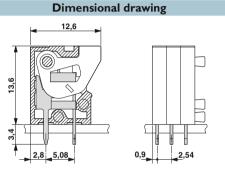


3.81 mm pitch, with opening lever, conductor connection parallel to the PCB

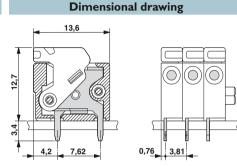








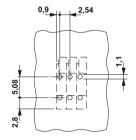
⊕ c**¶** us CCA





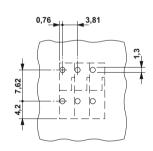
Ordering data						
Туре	Order No.	Pcs. / Pkt.				
Pitch 2.54 mm, color: green						
FFKDS/H-2,54	1791826	250				
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks, for horizontal connection						
FFKDSA1/H-5,08	1791868	250				

Drilling diagram



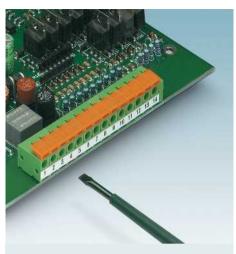
Ordering data

Туре	Order No.	Pcs. / Pkt.
Pitch 2.54 mm, color: green		
FFKDS/V-2,54	1791813	250
End terminal block, 5.08 mm wide, nec row of terminal blocks, for vertical con		end of a
FFKDSA1/V-5,08	1791855	250



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: green		
FFKDS/H-3,81	1789650	100
End terminal block, 6.35 mm wide, ned	essary at the	end of a
row of terminal blocks, for horizontal of		5 51 u
,		
FFKDSA1/H-6,35	1789634	50

With actuation rocker with a connection cross section of up to 1.5 mm²



- PCB terminal blocks with front spring connection
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

FFKDS/H1-5,08

 Opening lever for convenient operation using a screwdriver

FFKDS/H2-5,08

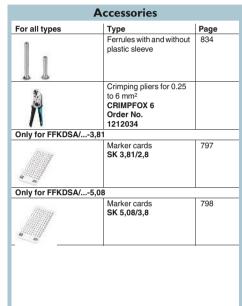
- The compact opening lever enables assembly in a housing cutout

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

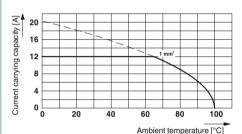
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

2) Only solid conductors



Current carrying capacity curve

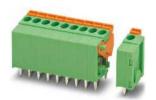
Type: FFKDS/V-3,81 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm	n²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material gro	up
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

П	FF	KDS/V-3,8	31	FF	KDS/H1-5	,08	FF	KDS/H2-5	,08
		121) / 1			151) / 1.5			151) / 1.5	
		160			320			320	
		3.81			5.08			5.08	
	044.4	/0.44.4	/00 40	00.45	/00 45	104 40	00.45	/00 45	/04 40
		/ 0.14 - 1 . 0.25 - 0.34			/ 0.2 - 1.5 0.25 - 0.75			/ 0.2 - 1.5 0.25 - 0.75	
		0.25 - 0.3 ² 0.25 - 0.3 ²			0.25 - 0.75 0.25 - 0.75			0.25 - 0.75 0.25 - 0.75	
	,	0.25 - 0.32	,		0.25 - 0.75)		0.25 - 0.75)
	III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	II/2
	160	160	320	250	320	630	250	320	630
	2.5	2.5	2.5	4	4	4	4	4	4
	В	С	D	В	С	D	В	С	D
	300	-	300	300	-	300	300	-	300
	6	-	6	10	-	10	10	-	10
	26 - 16	-	26 - 16	22 - 16	-	22 - 16	22 - 16	-	22 - 16
	В	С	D	В	С	D	В	С	D
	150	-	-	300	-	300	300	-	300
	10	-	-	10	-	10	10	-	10
	26 - 18 ²)	-	-	16 ²)	-	16 ²)	16 ²)	-	16 ²)
		10			10			10	
		PA/I			PA/I			PA/I	
		V0			V0			V0	
	1.3	3 / 0.5 x 1 r	nm	1.3	3 / 0.5 x 1 r	nm	1.3	3 / 0.5 x 1 r	nm

No. of pos.
1
1
1
1
1
1
1



3.81 mm pitch, with opening lever, conductor connection vertical to the PCB



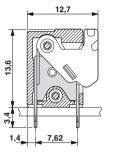
5.08 mm pitch, with opening lever, conductor connection parallel to the PCB

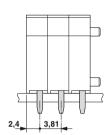


5.08 mm pitch, with shortened opening lever, conductor connection parallel to the PCB

& SAL US PO KEWA CCA CB

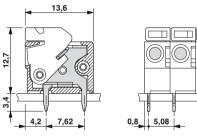
Dimensional drawing





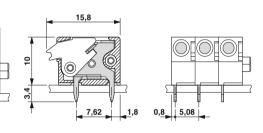
® ₽Nus PEMA CCA CB





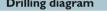
® € KEMA CCA CB

Dimensional drawing

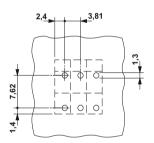


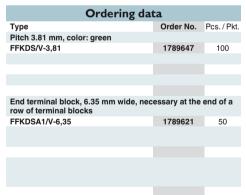
Drilling diagram

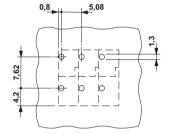
Drilling diagram



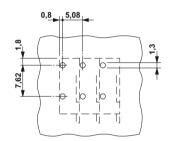
Drilling diagram





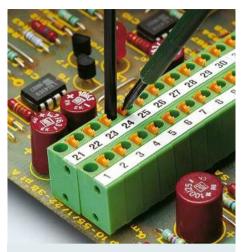


Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.08 mm pitch, color: green					
FFKDS/H1-5,08	1790335	250			
End terminal block, 7.62 mm wide, nec row of terminal blocks	essary at the	end of a			
FFKDSA1/H1-7,62	1790513	250			



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.08 mm pitch, color: green					
FFKDS/H2-5,08	1790461	250			
End terminal block, 7.62 mm wide, nec row of terminal blocks, with shortened					
FFKDSA1/H2-7,62	1790500	250			

With actuation rocker with a connection cross section of up to 1.5 mm²



- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

FFKDS/V1-5,08 and FFKDS/H1-7,62

- Opening lever for convenient operation using a screwdriver

FFKDS/V2-5,08

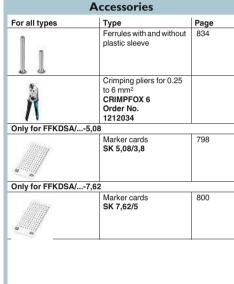
- The compact opening lever enables the direct arrangement of several PCB terminal block bases in a row

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

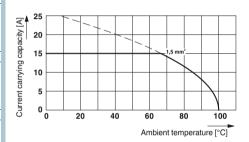
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

2) Only solid conductors.



Current carrying capacity curve

Type: FFKDS/V1-5,08 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data					
Technical data in accordance to IEC / DIN VDB					
Rated current / conductor cross section	[A] / [mm ²]				
Rated insulation voltage for pollution degree 2	[V]				
Pitch	[mm]				
Connection capacity					
Solid / stranded	[mm ²] / [mm ²] / AWG				
Stranded with ferrules without plastic sleeve	[mm ²]				
Stranded with ferrules with plastic sleeve	[mm ²]				
Insulation coordination					
Surge voltage category / pollution degree					
Rated insulation voltage	[V]				
Rated surge voltage	[kV]				
Approval data (UL/CUL)	Use Group				
Nominal voltage	[V]				
Nominal current	[A]				
Connection capacity AWG	AWG				
Approval data (CSA)	Use Group				
Nominal voltage	[V]				
Nominal current	[A]				
Connection capacity AWG	AWG				
General data					
Stripping length	[mm]				
Type of insulation material / insulation material	group				
Inflammability class according to UL 94					
Drill hole diameter / pin dimensions	[mm]				

	FFKDS/V1-5,08		FFKDS/V2-5,08		FFKDSA/H1-7,62				
<u>']</u>		151) / 1.5			151) / 1.5			17.5¹) / 1.5	5
]		320			320			630	
_									
1]		5.08			5.08			7.62	
				00.45	/00 45	/04 40	0.0.45	/00 45	/04 40
3_ 2] 2]	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16				/ 0.2 - 1.5 0.25 - 0.75			/ 0.2 - 1.5 0.25 - 0.75	
21		0.25 - 0.75 0.25 - 0.75			0.25 - 0.75 0.25 - 0.75			0.25 - 0.75 0.25 - 0.75	
]	,	0.25 - 0.75)	,	0.25 - 0.75)		0.25 - 0.75)
	III/3	III/2	II/2	III/3	III/2	11/2	III/3	III/2	11/2
/1	320	320	630	320	320	630	400	630	1000
<u>']</u> ']	4	4	4	4	4	4	6	6	6
þ	В	Ċ	D.	В	Ċ	D	В	Č	D
	300	-	300	300	-	300	300		300
<u>']</u> 3	10	-	10	10	-	10	10	-	10
3	22 - 16	-	22 - 16	22 - 16	-	22 - 16	22 - 16	-	22 - 16
р	В	С	D	В	С	D	В	С	D
]	300	-	300	300	-	300	300	-	300
'] .] 	10	-	10	10	-	10	10	-	10
à	16 ²)	-	16 ²)	16 ²)	-	16 ²)	16 ²)	-	16 ²)
1]_		10			10			10	
		PA/I		PA/I		PA/I			
_		V0			V0			V0	
1]	1.3	3 / 0.5 x 1 r	mm	1.3	3 / 0.5 x 1 r	nm	1.3	3 / 0.5 x 1 r	nm

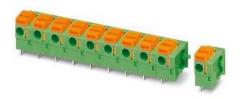
No. of po	os.	
	1	
	1	
	1	
	1	
	1	



5.08 mm pitch, with opening lever, conductor connection vertical to the PCB



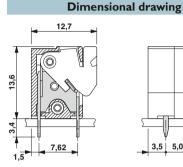
5.08 mm pitch, with shortened opening lever, conductor connection vertical to the PCB

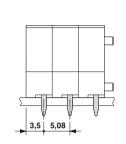


7.62 mm pitch, with opening lever, conductor connection parallel to the PCB

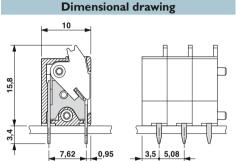
Dimensional drawing

& SAL US PO KEWA CCA CB

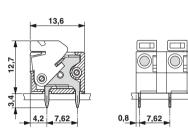




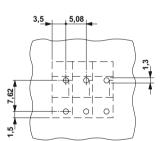
© CAN US PC KEMA CCA CB. Scheme



© CCA CB CCA CB

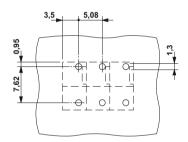


Drilling diagram

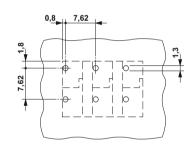


Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
FFKDS/V1-5,08	1790319	250
End terminal block, 7.62 mm wide, nec row of terminal blocks	essary at the	end of a
FFKDSA1/V1-7,62	1790490	250

Drilling diagram

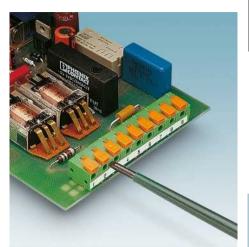


Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.08 mm pitch, color: green					
FFKDS/V2-5,08	1790348	250			
End terminal block, 7.62 mm wide, nec					
row of terminal blocks, with shortened	opening leve	r			
FFKDSA1/V2-7,62	1790487	250			



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 7.62 mm, color: green					
FFKDSA/H1-7,62	1790351	250			
End terminal block, 7.62 mm wide, nec row of terminal blocks	cessary at the	end of a			
FFKDSA1/H1-7,62	1790513	250			

With actuation rocker with a connection cross section of up to 1.5 mm²



- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

FFKDSA/V1-7,62

- Opening lever for convenient operation using a screwdriver

FFKDSA/H2-7,62 and FFKDSA/V2-7,62

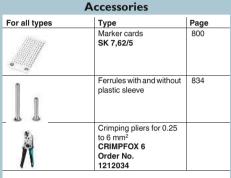
- The compact opening lever enables assembly in a housing cutout

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

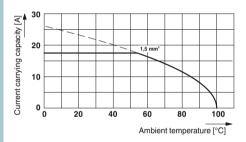
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

2) Only solid conductors.



Current carrying capacity curve

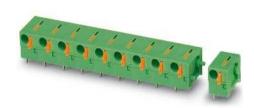
Type: FFKDSA/V1-7,62 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



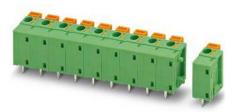
Technical data					
Technical data in accordance to IEC / DIN VI	DE				
Rated current / conductor cross section	[A] / [mm ²]				
Rated insulation voltage for pollution degree	2 [V]				
Pitch	[mm]				
Connection capacity					
Solid / stranded	[mm ²] / [mm ²] / AWG				
Stranded with ferrules without plastic sleeve	[mm ²]				
Stranded with ferrules with plastic sleeve	[mm ²]				
Insulation coordination					
Surge voltage category / pollution degree					
Rated insulation voltage	[V]				
Rated surge voltage	[kV]				
Approval data (UL/CUL)	Use Group				
Nominal voltage	[V]				
Nominal current	[A]				
Connection capacity AWG	AWG				
Approval data (CSA)	Use Group				
Nominal voltage	[V]				
Nominal current	[A]				
Connection capacity AWG	AWG				
General data					
Stripping length	[mm]				
Type of insulation material / insulation materi	al group				
Inflammability class according to UL 94					
Drill hole diameter / pin dimensions	[mm]				

	FFKDSA/H2-7,62		FFKDSA/V1-7,62		FFKDSA/V2-7,62				
²]		17.5 ¹) / 1.	5		17.5 ¹) / 1.5	5		17.51) / 1.5	5
/]		630			630			630	
_									
1]		7.62			7.62			7.62	
G		/ 0.2 - 1.5			/ 0.2 - 1.5			/ 0.2 - 1.5	
3_ 2] 2]		0.25 - 0.75			0.25 - 0.75			0.25 - 0.75	
2]		0.25 - 0.75	5		0.25 - 0.75	5		0.25 - 0.75	5
	III/3	III/2	II / 2	III/3	III/2	11/2	III/3	III/2	II / 2
/ <u>]</u> /]	400	630	1000	500	630	1000	500	630	1000
	6	6	6	6	6	6	6	6	6
р	В	С	D	В	С	D	В	С	D
/]	300	-	300	300	-	300	300	-	300
/] [] []	10	-	10	10	-	10	10	-	10
G	22 - 16	-	22 - 16	22 - 16	-	22 - 16	22 - 16	-	22 - 16
р	В	С	D	В	С	D	В	С	D
/]	300	-	300	300	-	300	300	-	300
/] \] G	10	-	10	10	-	10	10	-	10
G	16 ²)	-	16 ²)	16 ²)	-	16 ²)	16 ²)	-	16 ²)
1]		10			10			10	
		PA/I		PA / I		PA/I			
		V0		V0			V0		
n] 1.3 / 0.5 x 1 mm		1.3 / 0.5 x 1 mm		1.3 / 0.5 x 1 mm					

No. of pos.	
1	
1	
1	
1	
·	
1	



7.62 mm pitch, with shortened opening lever, conductor connection parallel to the PCB



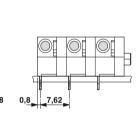
7.62 mm pitch, with opening lever, conductor connection vertical to the PCB



7.62 mm pitch, with shortened opening lever, conductor connection vertical to the PCB

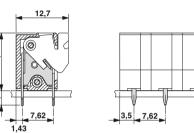
& SAL US PO KEWA CCA CB

Dimensional drawing

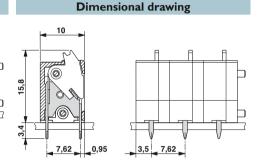


© CAN US PC KEMA CCA CB. Scheme

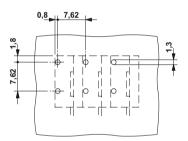
Dimensional drawing



© CCA CB CCA CB

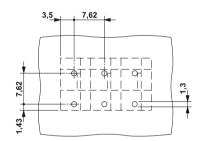


Drilling diagram

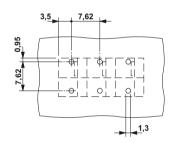


Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 7.62 mm, color: green					
FFKDSA/H2-7,62	1790458	250			
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks, with shortened opening lever					
FFKDSA1/H2-7,62	1790500	250			

Drilling diagram



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 7.62 mm, color: green					
FFKDSA/V1-7,62	1790364	250			
End terminal block, 7.62 mm wide, nec row of terminal blocks	essary at the	end of a			
FFKDSA1/V1-7,62	1790490	250			



Ordering date	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
FFKDSA/V2-7,62	1790377	250
End terminal block, 7.62 mm wide, necessary at the end of a		
row of terminal blocks, with shortened	opening leve	r
FFKDSA1/V2-7,62	1790487	250

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A

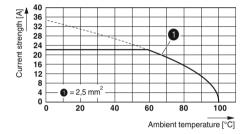
Connection cross section of up to 2.5 mm²



- Spring-cage PCB terminal block for electronic housing ME/ME MAX
- Push-in technology simplifies connec-
- Design version "left" and "right"
- Pitch 5 mm
- Number of positions between 2 and 4

Current carrying capacity curve

Type: FKDSO 2,5/...KMGY Tested in accordance with DIN EN 60512-5-2:2003-01 Reduction factor = 1



Technical data			O 2,5/l
Technical data in accordance to IEC / DIN VI	DΕ		
Rated current / conductor cross section	[A] / [mm ²]		22 / 2.5
Rated insulation voltage for pollution degree	2 [V]		250
Pitch	[mm]		5
Connection capacity			
Solid / stranded	$[mm^2]/[mm^2]/AWG$	0.2 - 2.	5 / 0.2 - 2.
Stranded with ferrules without plastic sleeve	[mm ²]		0.25 - 2.
Stranded with ferrules with plastic sleeve	[mm ²]		0.25 - 2.
Insulation coordination			
Surge voltage category / pollution degree		III/3	III/2
Rated insulation voltage	[V]	250	250
Rated surge voltage	[kV]	4	4
Approval data (UL/CUL)	Use Group	В	С
Nominal voltage	[V]	300	-
Nominal current	[A]	10	-
Connection capacity AWG	AWG	24 - 14	-
Approval data (CSA)	Use Group	В	С
Nominal voltage	[V]	-	-
Nominal current	[A]	-	-
Connection capacity AWG	AWG	-	-
General data			
Stripping length	[mm]		10
Type of insulation material / insulation material	al group		PA/I
Inflammability class according to UL 94			V0
Drill hole diameter / pin dimensions	[mm]	1.4	1/0.8 x 1.0

FKDSO	2,5/L	KMGY	FKDSC	2,5/R	KMGY
	22 / 2.5			22 / 2.5	
	250			250	
	5			5	
	J				
0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 14	0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 14
	0.25 - 2.5			0.25 - 2.5	
-	0.25 - 2.5			0.25 - 2.5	
III/3	III/2	II / 2	III/3	III/2	11/2
250	250	250	250	250	250
4	4	4	4	4	4
В	С	D	В	С	D
300	-	300	300	-	300
10	-	5	10	-	5
24 - 14	-	24 - 14	24 - 14	-	24 - 14
В	С	D	В	С	D
	-	-	-	-	-
	-	-	-	-	-
-	-	-	-	-	-
	10		10		
	PA/I		PA / I		
	V0		V0		
1.4	/ 0.8 x 1.0	mm 1.4 / 0.8 x 1.0 mm		mm	

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00





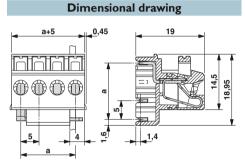
With "left" solder pins leading off at a right angle

With "right" solder pins leading off at a right angle

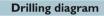


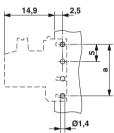
Dimensional drawing مُامَامُامُ

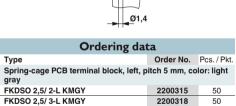
CCA CB



Drilling diagram



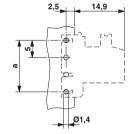




2200319

50

FKDSO 2,5/ 4-L KMGY



Ordering data			
Type Order No. Pcs. / Pkt			
Spring-cage PCB terminal block, right, pitch 5 mm, color: light gray			
2200316	50		
2200317	50		
2200320	50		
	Order No. pitch 5 mm, co 2200316 2200317		

PCB terminal blocks with displacement connection for wave soldering processes, currents up to 5 A

Connection cross section of up to 0.34 mm²



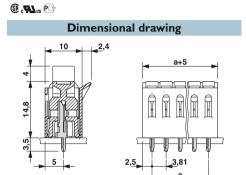
- PCB terminal block with fast insulation displacement connection technology with a 3.81 mm pitch
- Connection of insulated conductor without tools in a short assembly time
- With a cut-off frequency of more than 100 MHz, the IDC range fulfills the quality requirement of CAT 5 in accordance with EN 50173 and ISO/IEC 11801
- The IDC range is suitable for cables with PVC and PE insulation
- You can find user notes and recommendations for IDC technology on page 22

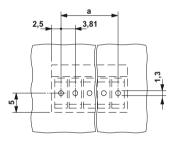
Notes:
Current carrying capacity curve upon request.



With displacement connection







Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
. ,	nm²]/[mm²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material g	jroup
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
·	

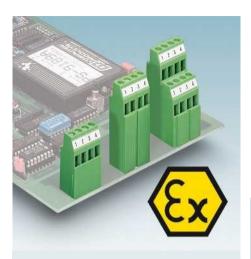
	$5^{1}) / 0.34$		
-	160		
-	3.81		
0.13 - 0.34	/0.22 - 0.	34 / 26 - 22	
	-		
	-		
III/3	III/2	11/2	
160	160	320	
2.5	2.5	2.5	
В	С	D	
250	-	300	
5	-	5	
28 - 22	-	28 - 22	
В	С	D	
300	-	300	
5	-	5	
28 - 22	-	28 - 22	
	PA/I		
	V0		
1.3	1.3 / 1 x 0.4 mm		

			Ordering dat	ta	
		Туре		Order No.	Pcs. / Pkt.
of pos.	Dim. a [mm]				
2	3.81	IDC 0,3/ 2-3,81		1706170	50
3	7.62	IDC 0,3/ 3-3,81		1706183	50
4	11.43	IDC 0,3/ 4-3,81		1706196	50
5	15.24	IDC 0,3/ 5-3,81		1706206	50
6	19.05	IDC 0,3/ 6-3,81		1706219	50
7	22.86	IDC 0,3/ 7-3,81		1706222	50
8	26.67	IDC 0,3/ 8-3,81		1706235	50
9	30.48	IDC 0,3/ 9-3,81		1706248	50
10	34.29	IDC 0,3/10-3,81		1706251	50
11	38.10	IDC 0,3/11-3,81		1706264	50
12	41.91	IDC 0,3/12-3,81		1706277	50

PCB terminal blocks with displacement connection for wave soldering processes, currents up to 5 A

PCB terminal blocks with screw connection for the Ex area for wave soldering process

Multi-level terminal blocks with a connection cross section of up to 1.5 mm²



- High housing design suitable for potting

MKKDSH 3/...

- Single-row type, back level of the double-level PCB terminal block

MK3DSH 3/...

- Single-row type, back level of the threelevel PCB terminal block

MK3DSMH 3/...

- Double-row type, middle, and back level of the three-level PCB terminal block
- Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at www.phoenixcontact.net/products and on the page 40

Accessories			
For all types	Туре	Page	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
/	Marker cards SK 5/3,8 orSK 5,08/3,8	798	
•	Single cover for individual terminal positions EA-MKDS Order No. 1711408		

Technical data		
Ex e terminal blocks as per EN/IEC 60079-0 and	d EN/IEN 60079-7	
	EX-RL / IEC60079-0	
Examination certificate		
IECEx certificate		
Rated voltage	[V]	
Rated current	[A] / [2.5 mm ²]	
Connection capacity		
Solid / stranded	[mm ²]	
Solid / stranded	AWG	
General data		
Stripping length	[mm]	
Screw thread		
Tightening torque	[Nm]	
Type of insulation material / insulation material	group	
Inflammability class according to UL 94		
Drill hole diameter / pin dimensions	[mm]	

MKKDSH 3/EX	MK3DSH 3/5,08-EX	MK3DSMH 3/5,08-EX
0344€ II 2G / Ex e II	0344 ⋘ II 2G / Ex e II	0344 ℰ ଛे II 2G / Ex e II
KEMA 01ATEX2130 U	KEMA 01ATEX2130 U	KEMA 01ATEX2130 U
IECEx KEM 07.0019 U	IECEx KEM 07.0019 U	IECEx KEM 07.0019 U
176	176	176
20	20	19
0.2 - 4 / 0.2 - 2.5	0.2 - 4 / 0.2 - 2.5	0.2 - 4 / 0.2 - 2.5
24 - 12 / 24 - 14	24 - 12 / 24 - 14	24 - 12 / 24 - 14
7	7	7
M3	M3	M3
0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
PA/I	PA / I	PA/I
V0	V0	V0
1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm	1.3 / 0.9 x 0.9 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
2	5.08
2	10.16

PCB terminal blocks with screw connection for the Ex area for wave soldering process



31.5 mm high PCB terminal block

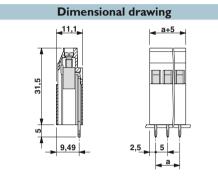


44.8 mm high PCB terminal block

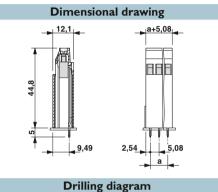


44.8 mm high double-level PCB terminal block with offset levels

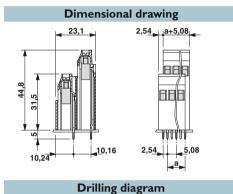




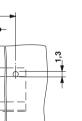
Ex: Ex



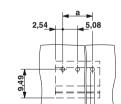
Ex: (Ex)



Drilling diagram



Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDSH 3/ 2-EX	1869790	50
MKKDSH 3/ 3-EX	1869800	50



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
MK3DSH 3/ 2-5,08-EX	1869774	50
MK3DSH 3/ 3-5,08-EX	1869787	50

5,	08 2,54	a a	<u>-</u> 5,08	
10,24 10,16		- 0 0	→ → — — — — — — — — — — — — —	1,3

	Ordering dat	ta	
	Туре	Order No.	Pcs. / Pk
_			
	5.08 mm pitch, color: green		
	MK3DSMH 3/ 2-5,08-EX	1870255	50
	MK3DSMH 3/ 3-5.08-FX	1870268	50

PCB terminal blocks with screw connection for the Ex area for wave soldering process

Horizontal or vertical conductor connection of up to 2.5 mm²



- Conductor connection in the front
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Pin spacing of 5 mm and 10 mm
- Delivery form: position discs in blocks of 10, cover not included
- Voltage can be increased using pitch spacers
- Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at www.phoenixcontact.net/products and on page 40

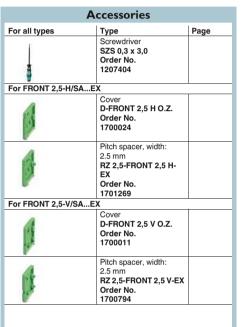
Notes:

1) 275 V with an inserted RZ 2,5-FRONT 2,5...-EX pitch spacer. 440 V with two inserted RZ 2,5-FRONT 2,5...-EX pitch spacers.

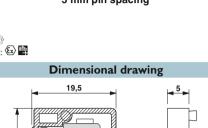


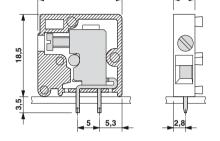
Horizontal connection direction, 5 mm pin spacing

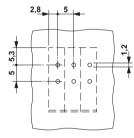




No. of pos.







Technical data	
Ex e terminal blocks as per EN/IEC 60079-0 and E	N/IEN 60079-7
Ex marking ATEX-	RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm ²]
Connection capacity	
Solid / stranded	[mm ²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material gro	up
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

0344⋘ II 2G / Ex e II
KEMA 00ATEX2053 U
IECEx KEM 07.0023 U
1761)
20
0.2 - 2.5 / 0.2 - 2.5
24 - 14 / 24 - 14
9
M2,5
0.4 - 0.5
PA/I
V0
1.2 / 0.8 x 0.8 mm

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-H/SA 5-EX	1701159	50

€ Ex: 🐼 🖺

PCB terminal blocks with screw connection for the Ex area for wave soldering process



Horizontal connection direction, 10 mm pin spacing

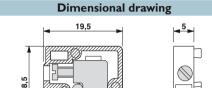


Vertical connection direction, 5 mm pin spacing



Vertical connection direction, 10 mm pin spacing



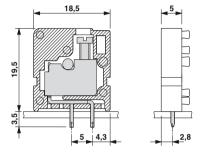


18,5

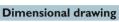
Drilling diagram

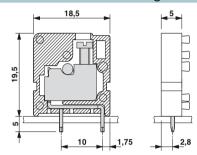




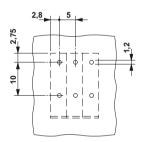


Drilling diagram

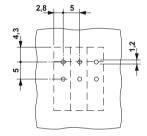




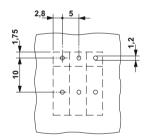
Drilling diagram



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-H/SA10-EX	1700325	50



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-V/SA 5-EX	1701162	50



Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-V/SA10-EX	1700309	50

PCB terminal blocks with spring connection for the Ex area for wave soldering processes

Angled conductor connection of up to Notes: 2.5 mm²



- Single terminal block with spring-cage connection
- Compact housing dimensions
- Double solder pin for high stability on the PCB
- A plate-type design enables blocking for larger number of positions
- Desk shape with a clear delimitation of the conductor entry and the actuation opening (screwdriver shaft)
- Delivery form: position discs in blocks of 10, end terminal block not included
- Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at www.phoenixcontact.net/products and on the page 40

1) 275 V with an inserted RZ-ZFKDS 2,5 pitch spacer, order no. 1931039.

or all types	Туре	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	1.1.90
Only for ZFKDS 1,5C-5	,0-EX	
/	Marker cards SK 5/3,8	798
nly for ZFKDS 2,5-5,0	8-EX	1
0	Pitch spacer, width: 2.54 mm RZ-ZFKDS 2,5 Order No. 1931039	
./	Marker cards SK 5,08/3,8	798

lechnical dat	a
Ex e terminal blocks as per EN/IEC 60079-	0 and EN/IEN 60079-7
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm ²]
Connection capacity	
Solid / stranded	[mm ²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation mate	erial group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

21 KD3 1,3C-3,0-LX	ZI KD3 2,3-3,00-LX
0344 € II 2G / Ex e II	0344€ II 2G / Ex e II
PTB 06ATEX1073 U	PTB 06ATEX1073 U
IECEx PTB 06.0096.U	IECEx PTB 06.0096.U
176	1371)
16	22
0.2 - 2.5 / 0.2 - 1.5	0.2 - 4 / 0.2 - 2.5
24 - 14 / 24 - 16	24 - 14 / 24 - 16
7	7
-	-
-	-
PA/I	PA/I
V0	V0
1.1 / 0.7 x 0.7	1.3 / 0.8 x 0.8

No. of pos.	
1	
1	
1	
1	
- 1	

PCB terminal blocks with spring connection for the Ex area for wave soldering processes

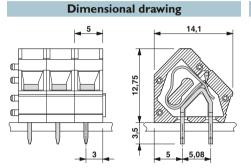




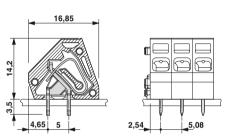


2.5 mm² connection cross section

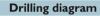


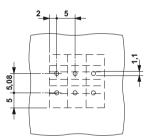


Ex: Ex

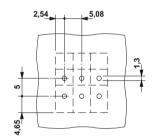


Dimensional drawing









Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
ZFKDS 2,5-5,08-EX	1732137	50	
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is de- sired			
ZFKDS 2,5-5,08 L-EX	1732140	50	
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks (right)			
ZFKDSA 2,5-6,08 R-EX	1732153	50	

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with spring connection for the Ex area for wave soldering processes

Horizontal or vertical conductor connection of up to 2.5 mm²



Notes:

The following ferrules can be used for these PCB terminal blocks: 3201275 Al 0,5-10WH 3201288 AI 0,75-10GY

3200182 AI 1-10RD 3200195 AI 1,5-10BK 3202533 AI 2,5-10BU

1) 275 V with an inserted RZ-SPT 2,5-2,5 pitch spacer. 440 V with an inserted RZ-SPT 2,5-5,0 pitch spacer.

- Front push-in spring-cage connection
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid and stranded conductors with ferrules
- The terminal point must be opened using a standard screwdriver for the connection of a stranded conductor without ferrule
- Voltage can be increased using pitch spacers
- Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at www.phoenixcontact.net/products and on the page 40

Accessories		
For all types	Туре	Page
Fig. 1	Screwdriver SZF 1-0,6 x 3,5	
I	Order No. 1204517	
*		
6000000	Marker cards SK 5/3,8	798
a _/	SK 3/3,0	
	Pitch spacer, width: 2.5 mm	
100	RZ-SPT 2,5-2,5	
1 10	Order No. 1772595	
	Pitch spacer, width:	
-4	5 mm RZ-SPT 2,5-5,0	
	Order No.	
	1772605	
*)	Crimping pliers for 0.25 to 6 mm ²	
i i	CRIMPFOX 6	
<i> 1</i> 1	Order No. 1212034	
	•	

Technical data		
Ex e terminal blocks as per EN/IEC 60079-0 an	d EN/IEN 60079-7	
Ex marking ATE	EX-RL / IEC60079-0	
Examination certificate		
IECEx certificate		
Rated voltage	[V]	
Rated current	[A] / [2.5 mm ²]	
Connection capacity		
Solid / stranded	[mm ²]	
Solid / stranded	AWG	
General data		
Stripping length	[mm]	
Screw thread		
Tightening torque	[Nm]	
Type of insulation material / insulation material	group	
Inflammability class according to UL 94		
Drill hole diameter / pin dimensions	[mm]	

SPT 2,5/H-5,0-EX	SPT 2,5/V-5,0-EX
0344€ II 2G / Ex e II	0344€x II 2G / Ex e II
KEMA 07ATEX0193 U	KEMA 07ATEX0193 U
IECEx KEM 07.0057 U	IECEx KEM 07.0057 U
176¹)	176¹)
23	23
0.2 - 4 / 0.2 - 2.5	0.2 - 4 / 0.2 - 2.5
24 - 14 / 24 - 12	24 - 14 / 24 - 12
10	10
-	-
-	-
PA/I	PA/I
V0	V0
1.1 / 0.8 x 0.8	1.1 / 0.8 x 0.8
•	

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

PCB terminal blocks with spring connection for the Ex area for wave soldering processes

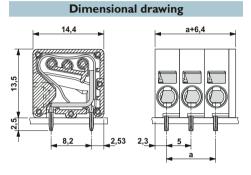




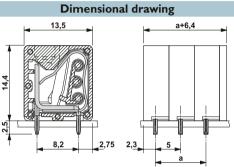


Connection direction vertical to the PCB



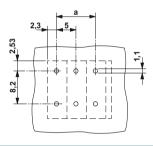


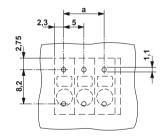
Ex: Ex



Drilling diagram

Drilling diagram





Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.0 mm pitch, color: green	5.0 mm pitch, color: green				
SPT 2,5/ 2-H-5,0-EX	1732386	50			
SPT 2,5/ 3-H-5,0-EX	1732399	50			
SPT 2,5/ 4-H-5,0-EX	1732409	50			
SPT 2,5/ 5-H-5,0-EX	1732412	50			
SPT 2,5/ 6-H-5,0-EX	1732425	50			
SPT 2,5/ 7-H-5,0-EX	1732438	50			
SPT 2,5/ 8-H-5,0-EX	1732441	50			
SPT 2,5/ 9-H-5,0-EX	1732454	50			
SPT 2,5/10-H-5,0-EX	1732467	50			
SPT 2,5/11-H-5,0-EX	1732470	50			
SPT 2,5/12-H-5,0-EX	1732483	50			

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
SPT 2,5/ 2-V-5,0-EX	1732496	50		
SPT 2,5/ 3-V-5,0-EX	1732506	50		
SPT 2,5/ 4-V-5,0-EX	1732519	50		
SPT 2,5/ 5-V-5,0-EX	1732522	50		
SPT 2,5/ 6-V-5,0-EX	1732535	50		
SPT 2,5/ 7-V-5,0-EX	1732548	50		
SPT 2,5/ 8-V-5,0-EX	1732551	50		
SPT 2,5/ 9-V-5,0-EX	1732564	50		
SPT 2,5/10-V-5,0-EX	1732577	50		
SPT 2,5/11-V-5,0-EX	1732580	50		
SPT 2,5/12-V-5,0-EX	1732593	50		

Printed circuit disconnect plugs / flat-type fuse holder

PCB isolating connectors



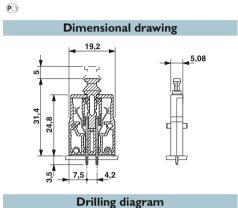
- Easy circuit disconnection using removable isolating connectors
- A special snap-lock fitting ensures a tight fit of the slide even when the disconnect point is open
- Can be used as an individual element or in combination with PCB terminal blocks with a 5.08 mm pitch
- Operation of the isolating connector with the help of a TZ connector extraction tool offered as an accessory or a screwdriver

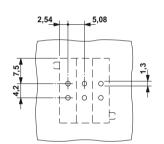


PCB disconnect plugs



No. of pos.





Technical data		
Technical data in accordance to IEC / DIN VDE		
Rated current / conductor cross section	$[A] / [mm^2]$	12/0
Rated insulation voltage for pollution degree 2	[V]	320
Pitch	[mm]	5.08
Mark and a second state of the second state of the second state of the		

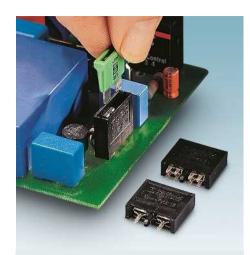
Pitch	[mm]
Multi-conductor connection capacity (two conductors with the same	cross section)
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	320	
	5.08	
III/3	III/2	II / 2
250	320	400
4	4	4
В	С	D
-	-	-
-	-	-
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1.3	/ 0.8 x 0.9 r	nm

Ordering da	ita	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
PTS-5,08	1876521	50

Printed circuit disconnect plugs / flat-type fuse holder

Flat-type fuse holders



- Fuse holders for flat-type fuses with a maximum nominal voltage of 32 V
- With SNAP IN foot for safe pre-assembly on the PCB

SI-H-FKS 15

- For fuses with a nominal current of 2 to 15 A

SI-H-FKS 30

- For fuses with a nominal current of 2 to 30 A

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

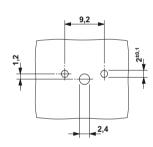
For dimensional drawing and drilling diagram for SI-H-FKS 30, visit www.phoenixcontact.net/products.



PCB fuse carrier for 5 mm wide automotive flat-type fuses

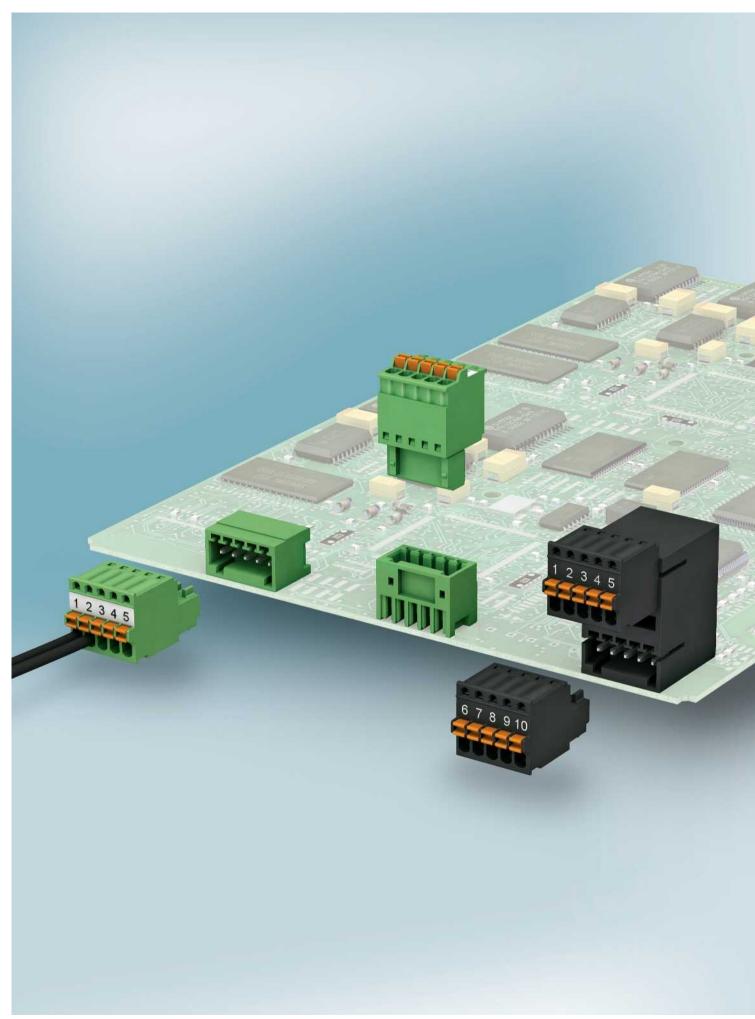


Dimensional drawing



	Ordering da	ta	
	Туре	Order No.	Pcs. / Pkt.
No. of pos.	Printed circuit fuse carrier, for 5 mm wifuses up to max. 15 A	de automotive	flat-type
1	SI-H-FKS 15	1728996	50
	Printed circuit fuse carrier, for 5 mm wifuses up to max. 30 A	de automotive	flat-type
1	SI-H-FKS 30	1727528	50
	Flat-type fuse inserts, (max. 32 V) acc. 72 581-3	to ISO/DIS 88	320/2 DIN
	SI FORM C 2 A	0913689	50
	SI FORM C 4 A DIN 72581	0913731	50
	SI FORM C 5 A DIN 72581	0913692	50
	SI FORM C 7,5 A DIN 72581	0913702	50
	SI FORM C 10 A DIN 72581	0913715	50
	SI FORM C 15 A DIN 72581	0913676	50
	SI FORM C 20 A DIN 72581	0913744	50
	SI FORM C 25 A DIN 72581	0913757	50
	SI FORM C 30 A DIN 72581	0913760	50

Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]		-/0	
Rated insulation voltage for pollution degree 2	[V]		-	
Pitch	[mm]		0	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11/2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group			-/-	
Inflammability class according to UL 94			-	



Plug-in connector systems with 2.5 and 2.54 mm pitch

The plug-in connectors in the COMBICON Micro series offer maximum packing density on the PCB or on the front of the device.

Convenient conductor connection is ensured by the push-in spring connection up to 0.5 mm² with orange spring lever. The plug-in connectors are available with 2.5/2.54 mm micro pitch.

Single and double-level headers for the SMT process and wave soldering are available on the PCB side.

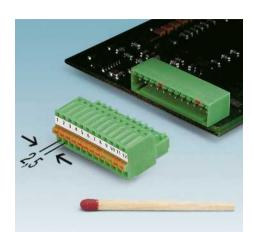
High-temperature-resistant headers with 2.54 mm pitch are supplied in tape-on-reel packing for automated SMT processes.

In addition, the FMC 0,5/MC 0,5 plug-in connector system offers the advantage of a gold-plated contact system.

MICRO-COMBICON plug-in connectors, 2.5 mm pitch up to 4 A	168
Plugs with push-in spring connection	168
Headers for reflow processes	170
Headers for wave soldering processes	172
MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A	174
Plugs with push-in spring connection	174
Headers for reflow/SMD processes	176

MICRO COMBICON plug-in connectors, 2.5 mm pitch up to 4 A

Plug with push-in spring connection



- Possible combinations with MC(V) 0,5 and MCD(V) 0,5 headers with 2.5 mm pitch
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Test connection to accommodate 1 mm Ø test connector
- Individual position coding by removing the coding tab and connecting the coding profile to the header

Technical data

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

Derating curves according to DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Number of positions = see diagram

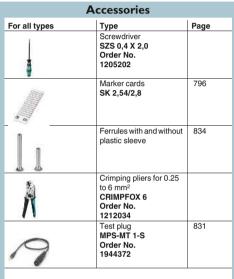
1) Please observe the derating curves. Derating curves of further combination options on request.



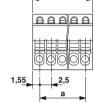
Plug with push-in spring connection

Dimensional drawing

CB CB scheme



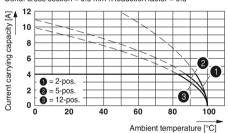
19,2



a+3,1

Representative derating curve

FK-MC 0,5/...-ST-2,5 with MCV 0,5/...-G-2,5 Cond. cross section = 0.5 mm²/Reduction factor = 0.8



Technical data in accordance to IEC / DIN VDI	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	aroup

	41) / 0.5 160	
	160	
	2.5	
0.14 - 0.5	/ 0.14 - 0.5	5 / 26 - 20
	0.25 - 0.5	
	-	
	-/-	
	-	
	-	
III/3	III/2	II / 2
100	160	320
1.5	2.5	2.5
В	С	D
125	-	-
4	- C	-
28 - 20	-	
В		D
-	-	-
-	-	-
-	-	-
	8	
	PA/I	
	V0	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
lo. of pos.	Dim. a [mm]	Plugs, 2.5 mm pitch, color: green		
2	2.50	FK-MC 0,5/ 2-ST-2,5	1881325	50
3	5.00	FK-MC 0,5/ 3-ST-2,5	1881338	50
4	7.50	FK-MC 0,5/ 4-ST-2,5	1881341	50
5	10.00	FK-MC 0,5/ 5-ST-2,5	1881354	50
6	12.50	FK-MC 0,5/ 6-ST-2,5	1881367	50
7	15.00	FK-MC 0,5/ 7-ST-2,5	1881370	50
8	17.50	FK-MC 0,5/ 8-ST-2,5	1881383	50
9	20.00	FK-MC 0,5/ 9-ST-2,5	1881396	50
10	22.50	FK-MC 0,5/10-ST-2,5	1881406	50
11	25.00	FK-MC 0,5/11-ST-2,5	1881419	50
12	27.50	FK-MC 0,5/12-ST-2,5	1881422	50

Inflammability class according to UL 94

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

MICRO COMBICON plug-in connectors, 2.5 mm pitch up to 4 A

Single-level header for reflow process-



- Application in SMT reflow processes
- Low-profile THR headers with a compact MICRO pitch of 2.5 mm
- Delivery form: Box packaging; bulk for small series
- Delivery form: Taped packaging in accordance with IEC 60286-3 for automatic assembly
- Coil diameter 330 mm, tape width
- Alternative pin lengths 1.4 mm or 2.6 mm on request
- Can be combined with FK-MC 0 plug
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The CP-MC 0,5 coding profile may only be used after reflow soldering.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

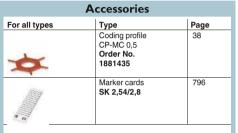
COMBICON select

Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

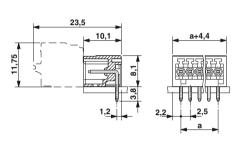


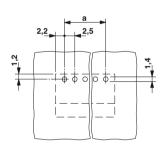
Box-packaged headers, plug-in direction parallel to the PCB

CB CB



Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	_
Drill hole diameter / pin dimensions	[mm]
·	

	4	
	160	
	2.5	
	2.5	
III/3	III/2	11/2
32	160	160
1.5	2.5	2.5
В	С	D
125	-	-
4	-	-
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA / IIIa	
·	V0	·
1.4	/ 0,8 x 0,8 ı	mm

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
9	20.00
10	22.50
11	25.00
12	27.50

Ordering data		
Туре	Order No.	Pcs. / Pkt
2.5 mm pitch, color: black		
MC 0,5/ 2-G-2,5 THT	1963421	50
MC 0,5/ 3-G-2,5 THT	1963434	50
MC 0,5/ 4-G-2,5 THT	1963447	50
MC 0,5/ 5-G-2,5 THT	1963450	50
MC 0,5/ 6-G-2,5 THT	1963463	50
MC 0,5/ 7-G-2,5 THT	1963476	50
MC 0,5/ 8-G-2,5 THT	1939303	50
MC 0,5/ 9-G-2,5 THT	1963492	50
MC 0,5/10-G-2,5 THT	1963502	50
MC 0,5/11-G-2,5 THT	1963515	50
MC 0,5/12-G-2,5 THT	1939316	50

Micro plug-in connectors with 2.5 mm and 2.54 mm pitch

MICRO COMBICON plug-in connectors, 2.5 mm pitch up to 4 A



Box-packaged headers, plug-in direction vertical to the PCB



Taped headers, plug-in direction parallel to the PCB



Taped headers, plug-in direction vertical to the PCB

CB CB

11,75 23,5

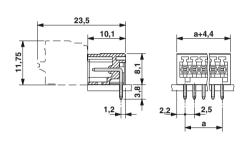
Dimensional drawing

10,1

Drilling diagram

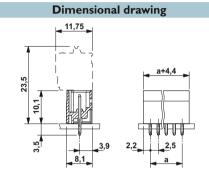
CB CB

Dimensional drawing

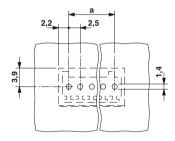


Drilling diagram

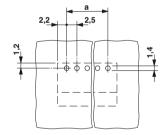
CB US CB



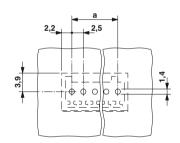
Drilling diagram







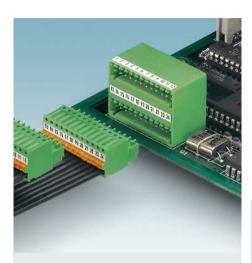
Ordering data		
Туре	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
MC 0,5/ 2-G-2,5 THT R44	1963641	330
MC 0,5/ 3-G-2,5 THT R44	1963654	330
MC 0,5/ 4-G-2,5 THT R44	1963667	330
MC 0,5/ 5-G-2,5 THT R44	1963670	330
MC 0,5/ 6-G-2,5 THT R44	1963683	330
MC 0,5/ 7-G-2,5 THT R44	1963696	330
MC 0,5/ 8-G-2,5 THT R44	1963706	330
MC 0,5/ 9-G-2,5 THT R44	1963719	330
MC 0,5/10-G-2,5 THT R44	1963722	330
MC 0,5/11-G-2,5 THT R44	1963735	330
MC 0,5/12-G-2,5 THT R44	1963748	330



Ordering data		
Туре	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
MCV 0,5/ 2-G-2,5 THT R44	1963751	220
MCV 0,5/ 3-G-2,5 THT R44	1963764	220
MCV 0,5/ 4-G-2,5 THT R44	1963777	220
MCV 0,5/ 5-G-2,5 THT R44	1963780	220
MCV 0,5/ 6-G-2,5 THT R44	1963793	220
MCV 0,5/ 7-G-2,5 THT R44	1963803	220
MCV 0,5/8-G-2,5 THT R44	1963816	220
MCV 0,5/ 9-G-2,5 THT R44	1963829	220
MCV 0,5/10-G-2,5 THT R44	1963845	220
MCV 0,5/11-G-2,5 THT R44	1963858	220
MCV 0,5/12-G-2,5 THT R44	1963861	220

MICRO COMBICON plug-in connectors, 2.5 mm pitch up to 4 A

Single and double-level headers for wave soldering processes



- Can be combined with FK-MC 0,5 plug

MC(V) 0,5/...G

- Low-profile headers with a compact MI-CRO pitch of 2.5 mm
- Plug-in direction parallel and vertical to the PCB
- Individual position encoding by inserting the coding profiles

MCD(V) 0,5/...-G1

- Low-profile double-level headers with high contact density
- Plug-in direction parallel and vertical to the PCB
- Without a level offset, for flush installation in the front of the devices

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

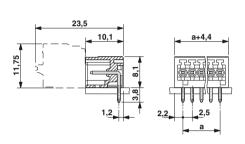


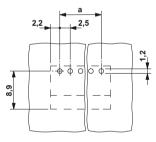
Single-level header, plug-in direction parallel to the PCB



Accessories		
For all types	Туре	Page
*	Coding profile CP-MC 0,5 Order No. 1881435	38
	Marker cards SK 2,54/2,8	796

Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
·	

	4	
	160	
	2.5	
III/3	III/2	11/2
80	160	320
1.5	2.5	2.5
В	С	D
125	-	-
4	-	-
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1.2	/ 0,8 x 0,8 ı	mm

		Ord
		Туре
No. of pos.	Dim. a [mm]	Pitch 2.5 mm, color: green
2	2.50	MC 0,5/ 2-G-2,5
3	5.00	MC 0,5/ 3-G-2,5
4	7.50	MC 0,5/ 4-G-2,5
5	10.00	MC 0,5/ 5-G-2,5
6	12.50	MC 0,5/ 6-G-2,5
7	15.00	MC 0,5/ 7-G-2,5
8	17.50	MC 0,5/ 8-G-2,5
9	20.00	MC 0,5/ 9-G-2,5
10	22.50	MC 0,5/10-G-2,5
11	25.00	MC 0,5/11-G-2,5
12	27.50	MC 0,5/12-G-2,5

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: green		
MC 0,5/ 2-G-2,5	1881448	50
MC 0,5/ 3-G-2,5	1881451	50
MC 0,5/ 4-G-2,5	1881464	50
MC 0,5/ 5-G-2,5	1881477	50
MC 0,5/ 6-G-2,5	1881480	50
MC 0,5/ 7-G-2,5	1881493	50
MC 0,5/ 8-G-2,5	1881503	50
MC 0,5/ 9-G-2,5	1881516	50
MC 0,5/10-G-2,5	1881529	50
MC 0,5/11-G-2,5	1881532	50
MC 0,5/12-G-2,5	1881545	50

MICRO COMBICON plug-in connectors, 2.5 mm pitch up to 4 A



Single-level header, plug-in direction vertical to the PCB



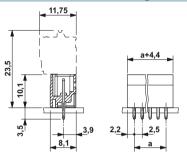
Double-level headers, plug-in direction parallel to the PCB



Double-level headers, plug-in direction vertical to the PCB

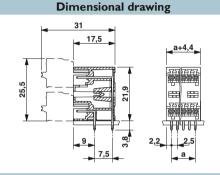
CB CB

Dimensional drawing



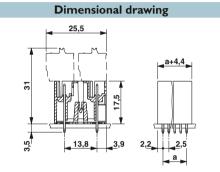
Drilling diagram



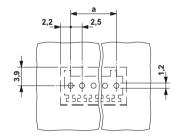


Drilling diagram

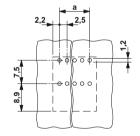
CB US CB



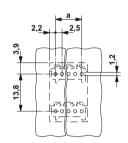
Drilling diagram







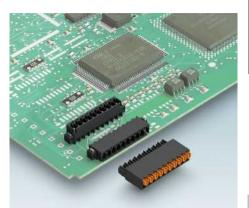
Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: green		
MCD 0,5/ 2-G1-2,5	1894804	50
MCD 0,5/ 3-G1-2,5	1894817	50
MCD 0,5/ 4-G1-2,5	1894820	50
MCD 0,5/ 5-G1-2,5	1894833	50
MCD 0,5/ 6-G1-2,5	1894846	50
MCD 0,5/ 7-G1-2,5	1894859	50
MCD 0,5/ 8-G1-2,5	1894862	50
MCD 0,5/ 9-G1-2,5	1894875	50
MCD 0,5/10-G1-2,5	1894888	50
MCD 0,5/11-G1-2,5	1894891	50
MCD 0,5/12-G1-2,5	1894901	50



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: green		
MCDV 0,5/ 2-G1-2,5	1894914	50
MCDV 0,5/ 3-G1-2,5	1894927	50
MCDV 0,5/ 4-G1-2,5	1894930	50
MCDV 0,5/ 5-G1-2,5	1894943	50
MCDV 0,5/ 6-G1-2,5	1894956	50
MCDV 0,5/ 7-G1-2,5	1894969	50
MCDV 0,5/ 8-G1-2,5	1894972	50
MCDV 0,5/ 9-G1-2,5	1894985	50
MCDV 0,5/10-G1-2,5	1894998	50
MCDV 0,5/11-G1-2,5	1895007	50
MCDV 0,5/12-G1-2,5	1895010	50

MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A

Plugs with push-in spring connection



- Ultra-flat design height of just 5.4 mm
- Can be combined with MC(V) 0,5 headers with 2.54 mm pitch
- User-friendly actuation of the spring lever using a screwdriver
- Versions with fixed coding of the first position (C1) or the last position (C2)
- Touch connection for voltage testing using a 0.64 mm Ø test pin

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

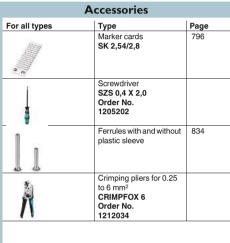
Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

1) Derating curves on request.

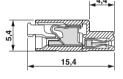


Flat plug, with gold-plated contact system

Dimensional drawing









recnnicai data	•
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
D''. I	. ,
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	th the same cross section)
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	-

Technical data

	61) / 0.5	
	61) / 0.5 160	
	2.54	
0.14 - 0.5	5 / 0.14 - 0.5	/ 26 - 20
	0.25 - 0.34	
	0.14 - 0.25	
III / O	III. / O	11.70
III/3	III / 2	11/2
2.5	160	160
	2.5	2.5
В	С	D
	-	-
	-	-
-	-	- D
В	С	D
	-	-
	-	-
	•	-
	7	
	LCP/IIIa	
	V0	
	*0	

No. of pos.	Dim. a [mm]
2	2.54
3	5.08
4	7.62
5	10.16
6	12.70
7	15.24
8	17.78
9	20.32
10	22.86
11	25.40
12	27.94
13	30.48
14	33.02
15	35.56
16	38.10

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
2.54 mm pitch, color: black			
FMC 0,5/ 2-ST-2,54	1821096	200	
FMC 0,5/ 3-ST-2,54	1821106	200	
FMC 0,5/ 4-ST-2,54	1821119	200	
FMC 0,5/ 5-ST-2,54	1821122	200	
FMC 0,5/ 6-ST-2,54	1821135	200	
FMC 0,5/ 7-ST-2,54	1821148	100	
FMC 0,5/ 8-ST-2,54	1821151	100	
FMC 0,5/ 9-ST-2,54	1821164	100	
FMC 0,5/10-ST-2,54	1821177	100	
FMC 0,5/11-ST-2,54	1821180	100	
FMC 0,5/12-ST-2,54	1821193	100	
FMC 0,5/13-ST-2,54	1821203	100	
FMC 0,5/14-ST-2,54	1821216	100	
FMC 0,5/15-ST-2,54	1821229	100	
FMC 0,5/16-ST-2,54	1821232	100	

MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A





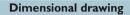


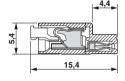


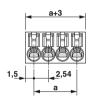
Plug with gold-plated contact system, fixed coding of the first position (C1)

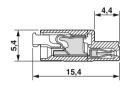
Plug with gold-plated contact system, fixed coding of the last position (C2)

Dimensional drawing











Ordering data			
Туре	Order No.	Pcs. / Pkt.	
2.54 mm pitch, color: black			
FMC 0,5/ 2-ST-2,54 C1	1706263	200	
FMC 0,5/ 3-ST-2,54 C1	1706262	200	
FMC 0,5/ 4-ST-2,54 C1	1706261	200	
FMC 0,5/ 5-ST-2,54 C1	1706259	200	
FMC 0,5/ 6-ST-2,54 C1	1706258	200	
FMC 0,5/ 7-ST-2,54 C1	1706256	100	
FMC 0,5/ 8-ST-2,54 C1	1706255	100	
FMC 0,5/ 9-ST-2,54 C1	1706254	100	
FMC 0,5/10-ST-2,54 C1	1706253	100	
FMC 0,5/11-ST-2,54 C1	1706252	100	
FMC 0,5/12-ST-2,54 C1	1706250	100	
FMC 0,5/13-ST-2,54 C1	1706249	100	
FMC 0,5/14-ST-2,54 C1	1706247	100	
FMC 0,5/15-ST-2,54 C1	1706246	100	
FMC 0,5/16-ST-2,54 C1	1706245	100	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
2.54 mm pitch, color: black			
FMC 0,5/ 2-ST-2,54 C2	1706243	200	
FMC 0,5/ 3-ST-2,54 C2	1706242	200	
FMC 0,5/ 4-ST-2,54 C2	1706241	200	
FMC 0,5/ 5-ST-2,54 C2	1706240	200	
FMC 0,5/ 6-ST-2,54 C2	1706239	200	
FMC 0,5/ 7-ST-2,54 C2	1706238	100	
FMC 0,5/ 8-ST-2,54 C2	1706237	100	
FMC 0,5/ 9-ST-2,54 C2	1706236	100	
FMC 0,5/10-ST-2,54 C2	1706234	100	
FMC 0,5/11-ST-2,54 C2	1706233	100	
FMC 0,5/12-ST-2,54 C2	1706232	100	
FMC 0,5/13-ST-2,54 C2	1706230	100	
FMC 0,5/14-ST-2,54 C2	1706229	100	
FMC 0,5/15-ST-2,54 C2	1706227	100	
FMC 0,5/16-ST-2,54 C2	1706226	100	

Headers for reflow/SMD processes



- Versions for use in THR or SMD pro-
- With anchor metal for secure hold on the PCB
- Can be combined with non-coded FMC 0,5...ST plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

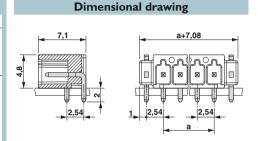
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at

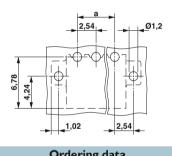
www.phoenixcontact.net/products



Header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction parallel to the PCB

Accessories			
For all types	Туре	Page	
0 0	Marker cards SK 2,54/2,8	796	





Technical data		
Technical data in accordance to IEC / DIN VDE		
Rated current	[A]	
Rated insulation voltage for pollution degree 2	[V]	
Pitch	[mm]	
Insulation coordination		
Surge voltage category / pollution degree		III/3
Rated insulation voltage	[V]	32
Rated surge voltage	[kV]	2.5
Approval data (UL/CUL)	Use Group	В
Nominal voltage	[V]	-
Nominal current	[A]	-
Connection capacity AWG	AWG	-
Approval data (CSA)	Use Group	В
Nominal voltage	[V]	-
Nominal current	[A]	-
Connection capacity AWG	AWG	-
General data		
Type of insulation material / insulation material group		
Inflammability class according to UL 94		
Drill hole diameter / pin dimensions	[mm]	1.2

	6	
	160	
	2.54	
	2.54	
III/3	III/2	11/2
32	160	160
2.5	2.5	2.5
В	С	D
-	-	-
-	-	-
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	LCP / IIIa	
	V0	
1.2 /	0,64 x 0,64	mm

No. of pos.	Dim. a [mm]
2	2.54
3	5.08
4	7.62
5	10.16
6	12.70
7	15.24
8	17.78
9	20.32
10	22.86
11	25.40
12	27.94
13	30.48
14	33.02
15	35.56
16	38.10

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
2.54 mm pitch, color: black				
MC 0,5/ 2-G-2,54 P20 THR R24	1821245	465		
MC 0,5/ 3-G-2,54 P20 THR R24	1821258	465		
MC 0,5/ 4-G-2,54 P20 THR R24	1821261	465		
MC 0,5/ 5-G-2,54 P20 THR R24	1821274	465		
MC 0,5/ 6-G-2,54 P20 THR R44	1821287	465		
MC 0,5/ 7-G-2,54 P20 THR R44	1821290	465		
MC 0,5/ 8-G-2,54 P20 THR R44	1821300	465		
MC 0,5/ 9-G-2,54 P20 THR R44	1821313	465		
MC 0,5/10-G-2,54 P20 THR R56	1821326	465		
MC 0,5/11-G-2,54 P20 THR R56	1821339	465		
MC 0,5/12-G-2,54 P20 THR R56	1821342	465		
MC 0,5/13-G-2,54 P20 THR R56	1821355	465		
MC 0,5/14-G-2,54 P20 THR R56	1821368	465		
MC 0,5/15-G-2,54 P20 THR R56	1821371	465		
MC 0,5/16-G-2,54 P20 THR R72	1821384	465		

MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A









Header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction vertical to the PCB

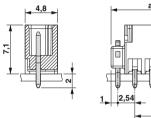


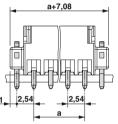
Header for SMD applications, gold-plated contact system, plug-in direction parallel to the **PCB**



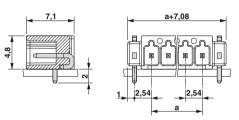
Header for SMD applications, gold-plated contact system, plug-in direction vertical to the **PCB**

Dimensional drawing

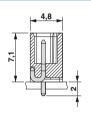


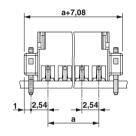


Dimensional drawing

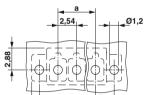


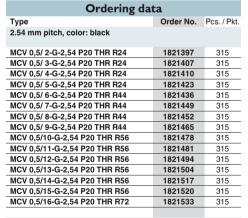
Dimensional drawing



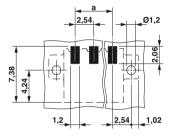


Drilling diagram





Drilling diagram



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
2.54 mm pitch, color: black			
MC 0,5/ 2-G-2,54 SMD R24	1821698	465	
MC 0,5/ 3-G-2,54 SMD R24	1821708	465	
MC 0,5/ 4-G-2,54 SMD R24	1821711	465	
MC 0,5/ 5-G-2,54 SMD R24	1821724	465	
MC 0,5/ 6-G-2,54 SMD R44	1821737	465	
MC 0,5/ 7-G-2,54 SMD R44	1821740	465	
MC 0,5/ 8-G-2,54 SMD R44	1821753	465	
MC 0,5/ 9-G-2,54 SMD R44	1821766	465	
MC 0,5/10-G-2,54 SMD R56	1821779	465	
MC 0,5/11-G-2,54 SMD R56	1821782	465	
MC 0,5/12-G-2,54 SMD R56	1821795	465	
MC 0,5/13-G-2,54 SMD R56	1821805	465	
MC 0,5/14-G-2,54 SMD R56	1821818	465	
MC 0,5/15-G-2,54 SMD R56	1821821	465	
MC 0,5/16-G-2,54 SMD R72	1821834	465	

	2,54	→ ^{Ø1,2}
2,85		2,88

Ordering data		
Туре	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 SMD R24	1821546	315
MCV 0,5/ 3-G-2,54 SMD R24	1821559	315
MCV 0,5/ 4-G-2,54 SMD R24	1821562	315
MCV 0,5/ 5-G-2,54 SMD R24	1821575	315
MCV 0,5/ 6-G-2,54 SMD R44	1821588	315
MCV 0,5/7-G-2,54 SMD R44	1821591	315
MCV 0,5/ 8-G-2,54 SMD R44	1821601	315
MCV 0,5/ 9-G-2,54 SMD R44	1821614	315
MCV 0,5/10-G-2,54 SMD R56	1821627	315
MCV 0,5/11-G-2,54 SMD R56	1821630	315
MCV 0,5/12-G-2,54 SMD R56	1821643	315
MCV 0,5/13-G-2,54 SMD R56	1821656	315
MCV 0,5/14-G-2,54 SMD R56	1821669	315
MCV 0,5/15-G-2,54 SMD R56	1821672	315
MCV 0,5/16-G-2,54 SMD R72	1821685	315

MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A

Headers for reflow/SMD processes



- Versions for use in THR or SMD processes
- With anchor metal for secure hold on the PCB
- Delivery form: tape-on-reel packing according to IEC 60286-3 for automated assembly
- With fixed coding of the first position (C1) or the last position (C2)
- Can be combined with coded plugs FMC 0,5...ST... C1 or C2

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/products.

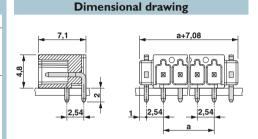
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at

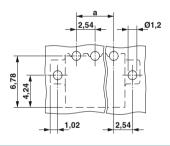
www.phoenixcontact.net/products



Coded header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction parallel to the PCB

Accessories					
For all types	Туре	Page			
000	Marker cards SK 2,54/2,8	796			





Technical data					
Technical data in accordance to IEC / DIN VDE					
Rated current	[A]	6			
Rated insulation voltage for pollution degree 2	[V]		160		
Pitch	[mm]	2.54			
Insulation coordination					
Surge voltage category / pollution degree		III/3	III/2	II / 2	
Rated insulation voltage	[V]	32	160	160	
Rated surge voltage	[kV]	2.5	2.5	2.5	
Approval data (UL/CUL)	Use Group	В	С	D	
Nominal voltage	[V]	-	-	-	
Nominal current	[A]	-	-	-	
Connection capacity AWG	AWG	-	-	-	
Approval data (CSA)	Use Group	В	С	D	
Nominal voltage	[V]	-	-	-	
Nominal current	[A]	-	-	-	
Connection capacity AWG	AWG	-	-	-	
General data					
Type of insulation material / insulation material group		LCP / IIIa			
Inflammability class according to UL 94		V0			
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,64 x 0,64 mm			

		Ordering data			
		Туре	Order No.	Pcs. / Pkt.	
o. of pos.	Dim. a [mm]	2.54 mm pitch, color: black			
2	2.54	MC 0,5/ 2-G-2,54 P20THRR24C1	1706225	465	
3	5.08	MC 0,5/ 3-G-2,54 P20THRR24C1	1706224	465	
4	7.62	MC 0,5/ 4-G-2,54 P20THRR24C1	1706223	465	
5	10.16	MC 0,5/ 5-G-2,54 P20THRR24C1	1706221	465	
6	12.70	MC 0,5/ 6-G-2,54 P20THRR44C1	1706220	465	
7	15.24	MC 0,5/ 7-G-2,54 P20THRR44C1	1706218	465	
8	17.78	MC 0,5/ 8-G-2,54 P20THRR44C1	1706217	465	
9	20.32	MC 0,5/ 9-G-2,54 P20THRR44C1	1706216	465	
10	22.86	MC 0,5/10-G-2,54 P20THRR44C1	1706214	465	
11	25.40	MC 0,5/11-G-2,54 P20THRR56C1	1706213	465	
12	27.94	MC 0,5/12-G-2,54 P20THRR56C1	1706212	465	
13	30.48	MC 0,5/13-G-2,54 P20THRR56C1	1706211	465	
14	33.02	MC 0,5/14-G-2,54 P20THRR56C1	1706210	465	
15	35.56	MC 0,5/15-G-2,54 P20THRR56C1	1706209	465	
16	38.10	MC 0,5/16-G-2,54 P20THRR72C1	1706208	465	
		2.54 mm pitch, color: black			
2	2.54	MC 0,5/ 2-G-2,54 P20THRR24C2	1706207	465	
3	5.08	MC 0,5/ 3-G-2,54 P20THRR24C2	1706205	465	
4	7.62	MC 0,5/ 4-G-2,54 P20THRR24C2	1706204	465	
5	10.16	MC 0,5/ 5-G-2,54 P20THRR24C2	1706203	465	
6	12.70	MC 0,5/ 6-G-2,54 P20THRR44C2	1706201	465	
7	15.24	MC 0,5/ 7-G-2,54 P20THRR44C2	1706200	465	
8	17.78	MC 0,5/ 8-G-2,54 P20THRR44C2	1706199	465	
9	20.32	MC 0,5/ 9-G-2,54 P20THRR44C2	1706198	465	
10	22.86	MC 0,5/10-G-2,54 P20THRR44C2	1706197	465	
11	25.40	MC 0,5/11-G-2,54 P20THRR56C2	1706195	465	
12	27.94	MC 0,5/12-G-2,54 P20THRR56C2	1706194	465	
13	30.48	MC 0,5/13-G-2,54 P20THRR56C2	1706193	465	
14	33.02	MC 0,5/14-G-2,54 P20THRR56C2	1706191	465	
15	35.56	MC 0,5/15-G-2,54 P20THRR56C2	1706190	465	
16	38.10	MC 0,5/16-G-2,54 P20THRR72C2	1706188	465	

MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A









Coded header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction vertical to the PCB

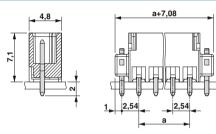


Coded header for SMD applications, gold-plated contact system, plug-in direction parallel to the PCB

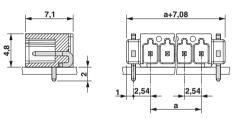


Coded header for SMD applications, gold-plated contact system, plug-in direction vertical to the PCB

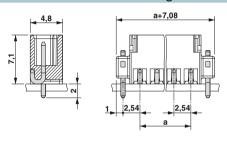
Dimensional drawing



Dimensional drawing



Dimensional drawing



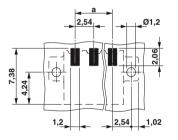
Drilling diagram

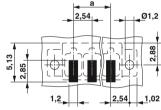
Drilling diagram



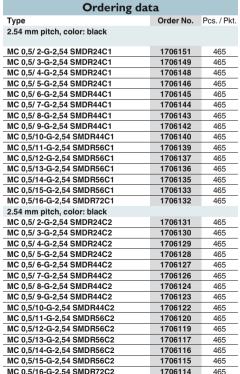




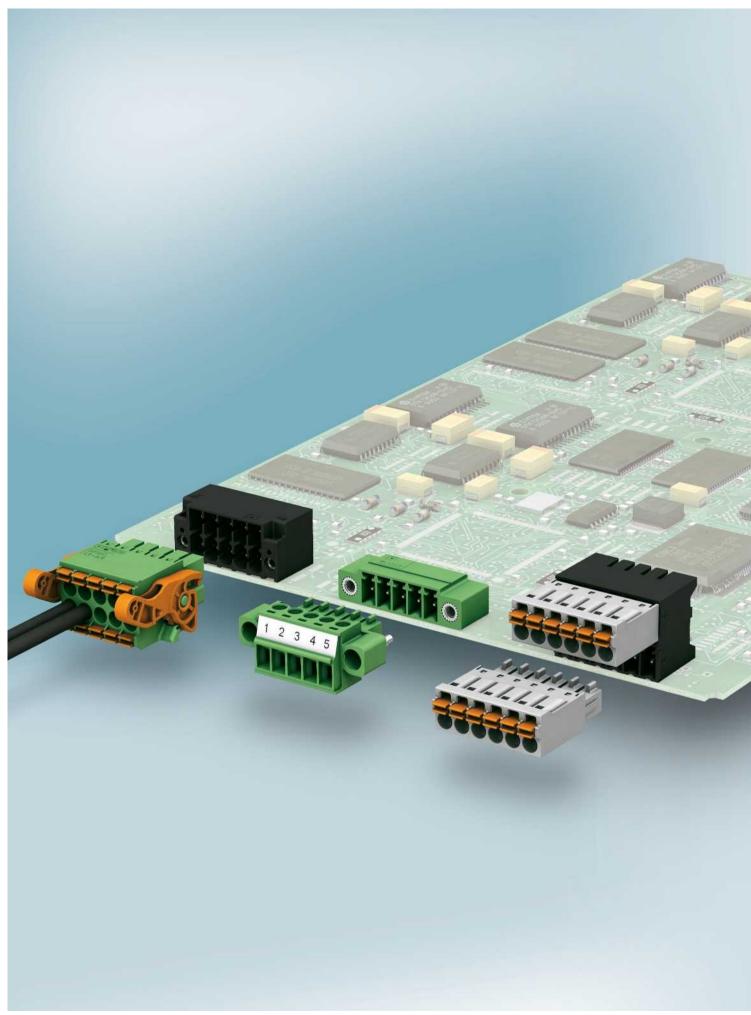




Ordering data					
Type Ore	der No.	Pcs. / Pkt.			
2.54 mm pitch, color: black					
MCV 0,5/ 2-G-2,54 P20THRR24C1 17	706187	315			
MCV 0,5/ 3-G-2,54 P20THRR24C1 17	706186	315			
MCV 0,5/ 4-G-2,54 P20THRR24C1 17	706185	315			
MCV 0,5/ 5-G-2,54 P20THRR44C1 17	'06184	315			
MCV 0,5/ 6-G-2,54 P20THRR44C1 17	'06182	315			
MCV 0,5/ 7-G-2,54 P20THRR44C1 17	706181	315			
MCV 0,5/ 8-G-2,54 P20THRR44C1 17	706180	315			
MCV 0,5/ 9-G-2,54 P20THRR56C1 17	706179	315			
MCV 0,5/10-G-2,54 P20THRR56C1 17	06178	315			
MCV 0,5/11-G-2,54 P20THRR56C1 17	06177	315			
MCV 0,5/12-G-2,54 P20THRR56C1 17	06175	315			
MCV 0,5/13-G-2,54 P20THRR56C1 17	06174	315			
MCV 0,5/14-G-2,54 P20THRR72C1 17	706173	315			
MCV 0,5/15-G-2,54 P20THRR72C1 17	06172	315			
MCV 0,5/16-G-2,54 P20THRR72C1 17	06171	315			
2.54 mm pitch, color: black					
MCV 0,5/ 2-G-2,54 P20THRR24C2 17	706169	315			
MCV 0,5/ 3-G-2,54 P20THRR24C2 17	706168	315			
MCV 0,5/ 4-G-2,54 P20THRR24C2 17	706166	315			
MCV 0,5/ 5-G-2,54 P20THRR44C2 17	706165	315			
MCV 0,5/ 6-G-2,54 P20THRR44C2 17	706164	315			
MCV 0,5/ 7-G-2,54 P20THRR44C2 17	706162	315			
MCV 0,5/8-G-2,54 P20THRR44C2 17	706161	315			
MCV 0,5/ 9-G-2,54 P20THRR56C2 17	706160	315			
MCV 0,5/10-G-2,54 P20THRR56C2 17	706159	315			
MCV 0,5/11-G-2,54 P20THRR56C2 17	706158	315			
MCV 0,5/12-G-2,54 P20THRR56C2 17	06157	315			
MCV 0,5/13-G-2,54 P20THRR56C2 17	706156	315			
MCV 0,5/14-G-2,54 P20THRR72C2 17	706155	315			
MCV 0,5/15-G-2,54 P20THRR72C2 17	706153	315			
MCV 0,5/16-G-2,54 P20THRR72C2 17	706152	315			



Ordering	data	
Туре	Order No.	Pcs. / Pk
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 SMDR24C1	1706113	315
MCV 0,5/ 3-G-2,54 SMDR24C1	1706111	315
MCV 0,5/ 4-G-2,54 SMDR24C1	1706110	315
MCV 0,5/ 5-G-2,54 SMDR44C1	1706108	315
MCV 0,5/ 6-G-2,54 SMDR44C1	1706107	315
MCV 0,5/ 7-G-2,54 SMDR44C1	1706106	315
MCV 0,5/ 8-G-2,54 SMDR44C1	1706104	315
MCV 0,5/ 9-G-2,54 SMDR56C1	1706103	315
MCV 0,5/10-G-2,54 SMDR56C1	1706102	315
MCV 0,5/11-G-2,54 SMDR56C1	1706101	315
MCV 0,5/12-G-2,54 SMDR56C1	1706100	315
MCV 0,5/13-G-2,54 SMDR56C1	1706098	315
MCV 0,5/14-G-2,54 SMDR72C1	1706097	315
MCV 0,5/15-G-2,54 SMDR72C1	1706096	315
MCV 0,5/16-G-2,54 SMDR72C1	1706094	315
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 SMDR24C2	1706093	315
MCV 0,5/ 3-G-2,54 SMDR24C2	1706092	315
MCV 0,5/ 4-G-2,54 SMDR24C2	1706091	315
MCV 0,5/ 5-G-2,54 SMDR44C2	1706090	315
MCV 0,5/ 6-G-2,54 SMDR44C2	1706089	315
MCV 0,5/ 7-G-2,54 SMDR44C2	1706088	315
MCV 0,5/ 8-G-2,54 SMDR44C2	1706087	315
MCV 0,5/ 9-G-2,54 SMDR56C2	1706085	315
MCV 0,5/10-G-2,54 SMDR56C2	1706084	315
MCV 0,5/11-G-2,54 SMDR56C2	1706083	315
MCV 0,5/12-G-2,54 SMDR56C2	1706081	315
MCV 0,5/13-G-2,54 SMDR56C2	1706080	315
MCV 0,5/14-G-2,54 SMDR72C2	1706078	315
MCV 0,5/15-G-2,54 SMDR72C2	1706077	315
MCV 0,5/16-G-2,54 SMDR72C2	1706076	315



Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

The trend towards the miniaturization of modules and devices continues. In terms of device development, an ever increasing number of wiring points on devices have to be taken into consideration.

The plug-in connectors in the COMBICON Mini series follow this trend with space-saving 3.5/3.81 mm and 5.08 mm pitch. Thanks to their compact dimensions, they offer convenient conductor connection up to 1.5 mm².

In addition to proven screw connection, the product range includes innovative pushin spring connection, fast insulation displacement connection technology, and crimp connections for assembly.

A wide choice of different designs are available for plug-in combinations.

The header range offers horizontal, vertical or double-level versions for the wave soldering and SMT process. Through hole reflow (THR) headers, which are made from high-temperature-resistant material, are available in tape-on-reel packing, enabling fully automated handling in the SMT process.

COMBICON control mini cross-reference list	182
MINI-COMBICON plug-in connectors, 3.5/3.81 and 5.08 mm pitch	184
Double-row plugs with push-in spring connection	184
Double row headers for reflow processes	186
Plugs with screw connection	190
Inverted plugs with screw connection	196
Plugs with push-in spring connection	198
Plugs with displacement connection	204
Plugs with crimp connection	206
Single-level headers for reflow processes	208
Double-level headers for reflow processes	218
Single-level headers for press-in technology	222
Single-level headers for wave soldering processes	224
Orthogonal headers for wave soldering processes	230
Double-level headers for wave soldering processes	234
Inverted headers for wave soldering processes	238
Headers for panel feed-throughs and direct mounting	240
Cable housings	242
Fiber optics for headers	244
Plugs with screw connection with 5.08 mm pitch	246
Headers for wave soldering processes with 5.08 mm pitch	248
Special designs	
SUBCON headers with MINI COMBICON pin connector pattern	251

COMBICON control mini cross-reference list

			1		1					
			mmm	ADDADADADA	南南南南南南南南南南	STATEGATA.	######################################	- 西西西西西西西西西西	ACARCAGA A	
		MINI COMBICON headers	Aug.	- Francisco	KOOKKOOKK		*********	Designation of the		
			mmm	* 5555655555		20110200000		**********	THE REAL PROPERTY.	
	Туре		DMCG(F)	IMCST(GF)	EMC(V)G MC(V)G (THR)	EMC(V)GF MC(V)GF(THR)	SMCG(F)	MCGF-LR MCVGF-LR	MCDNG1 MCDNVG1	
			Page 186	Page 196	Page 222 224 / 208	Page 223 208	Page 228	Page 225	Page 218 220	
MINI COMBICON plugs		Pitch	3.5	3.81	3.5 3.81	3.5 3.81	3.81	3.5 3.81	3.5 3.81	
. •		T ROTT		0.01	0.01	0.01	0.01	0.01	0.01	
Danish Managara	DFMCST Page 184	3.5	•							
ARRESTEE ARRESTEE &	DFMCSTF(LR) Page 185	3.5	•							
on another the second	MCST	3.5			•					
Children Children	Page 190	3.81		•	•		•	_		
SHARRAN MARKANAN	MCSTF Page 191	3.5 3.81		•		•	•	•		
A Proposition of the Party of t	MCST-LR	3.5						•		
manufalle alula	Page 191	3.81						•		
Addition of the last	FRONT-MCST Page 194	3.81			•		•			
Envernetter management	FRONT-MCSTF									
	Page 195	3.81		•		•	•	•		
	MCVR(W)ST Page 192	3.5 3.81		•	•		•			
Districts Districts	MCVR(W)STF	3.5				•		•		
	Page 193	3.81		•		•	•	•		
Contract of the second	FK-MCPST-LR	3.5						•		
Residence	Page 199	3.81						•		
	FK-MCPST	3.5			•					
1	Page 198	3.81		•	•	_	•	_		
THE PERSONS NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN CO	FK-MCPSTF Page 199	3.5 3.81		•		•	•	•		
	FMCST	3.5			•				•	
AND TORONS CONTRACTOR	Page 200	3.81		•	•		•		•	
SECRETARIES SECRETARIES	FMCSTF	3.5				•		•		
	Page 201	3.81		•		•	•	•		
	FMCSTRF Page 201	3.5								
A TOTAL PROPERTY OF	FMCDST	3.5							•	
	Page 201									
	TFMCST	0.7								
\$2000000 \$2000000	Page 202 TFMCSTF	3.5			•					
	Page 202 QCST	3.5				•		•		
Charles Charles	Page 204 QCSTF	3.81		•	•		•			
	Page 205	3.81		•		•	•	•		
Address and College and the same	MCCSTZ Page 206	3.81		•	•		•			
unidin mining	MCCSTZF Page 207	3.81				•	•	•		
97777	IMCG									
MANUAL MINING	Page 238 IMCVG	3.81		•	•		•	•		
	Page 239	3.81		•	•		•	•		
CARRAGES ASSESSMENT	MCST(1) Page 246	5.08								
	MCST(1)F Page 247	5.08								

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

COMBICON control mini cross-reference list

MC(V)G RN MCDN(V)G1 RN Page 225	MCOG Page 230	MCOG1 Page 232	MCD(V)G Page 234	MCD(V)GF Page 235	MCD(V)G1 Page 235	MCDVG1F	DFK-MCGF Page 240	MCVUGFD Page 241	MCG MCVG Page 248	MCGF MCVGF Page 249
219 3.5	3.81	3.5	3.81	3.81	3.81	3.81	3.81	3.81	5.08	5.08
	•	•	•	•	•	•	•	•		
	•		•	•	•	•	•	•		
	•		•	•	•	•	•	•		
	•	•	•	•	•	•	•	•		
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	•		•		•				•	•

Double-row plug with push-in spring connection



- Fast conductor connection through push-in direct plug-in technology
- Extremely flat design, 13.3 mm
- Combination with very flat DMC head-
- Conductor cross section up to 1.5 mm²
- Versions with and without screw flanges and Lock & Release levers
- Lock & Release levers lock the connector to the header and function as a release tool
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

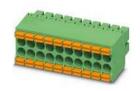
Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.2 Nm.



Two-row connector with push-in connection

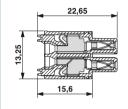
Accessories

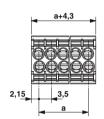
For all types	Туре	Page
4 2	Marker cards SK 3,5/2,8	797
	Coding profile CP-DMC-THR NAT Order No. 1790647	
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
1 1	Ferrules with and without plastic sleeve	834



. FLL us

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	·

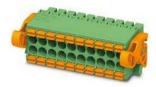
	8 / 1.5	
	160	
	3.5	
0.2 - 1.5	/ 0.2 - 1.5	/ 24 - 16
	0.25 - 1.5	
	0.25 - 0.75	
	-/- -	
	-	
	-	
III/3	III/2	11/2
160	160	250
2.5	2.5	2.5
В	С	D
150	-	-
8	- - - C	- - D
16 - 24	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	10	
	PA/I	
	V0	

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data				
Туре	Order No.	Pcs. / Pkt		
3.5 mm pitch, color: green				
DFMC 1,5/ 2-ST-3,5	1790108	50		
DFMC 1,5/ 3-ST-3,5	1790111	50		
DFMC 1,5/ 4-ST-3,5	1790124	50		
DFMC 1,5/ 5-ST-3,5	1790137	50		
DFMC 1,5/6-ST-3,5	1790140	50		
DFMC 1,5/ 7-ST-3,5	1790153	50		
DFMC 1,5/ 8-ST-3,5	1790166	50		
DFMC 1,5/ 9-ST-3,5	1790179	50		
DFMC 1,5/10-ST-3,5	1790182	50		
DFMC 1,5/11-ST-3,5	1790195	50		
DFMC 1,5/12-ST-3,5	1790205	50		
DFMC 1,5/13-ST-3,5	1790218	50		
DFMC 1,5/14-ST-3,5	1790221	50		
DFMC 1,5/15-ST-3,5	1790234	50		
DFMC 1,5/16-ST-3,5	1790247	50		



With screw flange



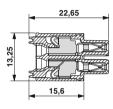
With Lock & Release levers for locking and releasing

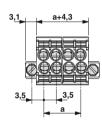
c**91** us

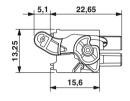
Dimensional drawing

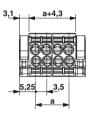


Dimensional drawing



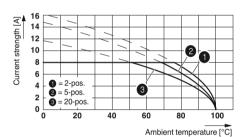






Representative derating curve

Type: DFMC 1,5/...-ST-3,5 with DMC 1,5/...-G1-3,5 P20 THR



Ordering data						
Туре	Order No.	Pcs. / Pkt.				
3.5 mm pitch, color: green						
DFMC 1,5/ 2-STF-3,5	1790292	50				
DFMC 1,5/ 3-STF-3,5	1790302	50				
DFMC 1,5/ 4-STF-3,5	1790315	50				
DFMC 1,5/ 5-STF-3,5	1790328	50				
DFMC 1,5/ 6-STF-3,5	1790331	50				
DFMC 1,5/ 7-STF-3,5	1790344	50				
DFMC 1,5/ 8-STF-3,5	1790357	50				
DFMC 1,5/ 9-STF-3,5	1790360	50				
DFMC 1,5/10-STF-3,5	1790373	50				
DFMC 1,5/11-STF-3,5	1790386	50				
DFMC 1,5/12-STF-3,5	1790399	50				
DFMC 1,5/13-STF-3,5	1790409	50				
DFMC 1,5/14-STF-3,5	1790412	50				
DFMC 1,5/15-STF-3,5	1790425	50				
DFMC 1,5/16-STF-3,5	1790438	50				

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
3.5 mm pitch, color: green					
DFMC 1,5/ 2-ST-3,5-LR	1790483	50			
DFMC 1,5/ 3-ST-3,5-LR	1790496	50			
DFMC 1,5/ 4-ST-3,5-LR	1790506	50			
DFMC 1,5/ 5-ST-3,5-LR	1790519	50			
DFMC 1,5/ 6-ST-3,5-LR	1790522	50			
DFMC 1,5/ 7-ST-3,5-LR	1790535	50			
DFMC 1,5/ 8-ST-3,5-LR	1790548	50			
DFMC 1,5/ 9-ST-3,5-LR	1790551	50			
DFMC 1,5/10-ST-3,5-LR	1790564	50			
DFMC 1,5/11-ST-3,5-LR	1790577	50			
DFMC 1,5/12-ST-3,5-LR	1790580	50			
DFMC 1,5/13-ST-3,5-LR	1790593	50			
DFMC 1,5/14-ST-3,5-LR	1790603	50			
DFMC 1,5/15-ST-3,5-LR	1790616	50			
DFMC 1,5/16-ST-3,5-LR	1790629	50			

Two-row headers for reflow processes



- Extremely small THR two-row headers for SMT and wave soldering processes
- At 8 mm, the distance from the edge of the PCB to the first row of holes is compatible with MC headers
- Headers with flange can be combined with screw-type Lock & Release lever connectors
- Type of packaging: bulk
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

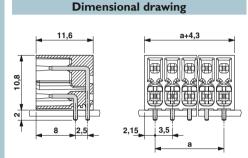
Panel cutout dimensions for DMC 1,5 and DMCV 1,5 appear on page 840.

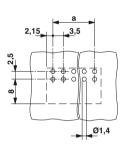


Plug-in direction parallel to the PCB

Accessories For all types Туре Page Coding profile CP-DMC-THR NAT Order No. 1790647 Marker cards 797 SK 3,5/2,8

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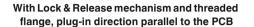
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	8		
	160		
	3.5		
III/3	III/2	II / 2	
160	160	250	
2.5	2.5	2.5	
В	С	D	
150	-	-	
8	-	-	
-	-	-	
В	С	D	
-	-	-	
-	-	-	
-	-	-	
LCP / IIIa			
	V0		
1.4	/ 0,8 x 0,8 r	nm	

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.5 mm, color: Black				
DMC 1,5/ 2-G1-3,5 P20THR	1786837	50		
DMC 1,5/ 3-G1-3,5 P20THR	1786840	50		
DMC 1,5/ 4-G1-3,5 P20THR	1786853	50		
DMC 1,5/ 5-G1-3,5 P20THR	1786866	50		
DMC 1,5/ 6-G1-3,5 P20THR	1786879	50		
DMC 1,5/ 7-G1-3,5 P20THR	1786882	50		
DMC 1,5/ 8-G1-3,5 P20THR	1786895	50		
DMC 1,5/ 9-G1-3,5 P20THR	1786905	50		
DMC 1,5/10-G1-3,5 P20THR	1786918	50		
DMC 1,5/11-G1-3,5 P20THR	1786921	50		
DMC 1,5/12-G1-3,5 P20THR	1786934	50		
DMC 1,5/13-G1-3,5 P20THR	1786947	50		
DMC 1,5/14-G1-3,5 P20THR	1786950	50		
DMC 1,5/15-G1-3,5 P20THR	1786963	50		
DMC 1,5/16-G1-3,5 P20THR	1786976	50		







Plug-in direction vertical to the PCB

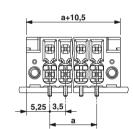


With Lock & Release mechanism and threaded flange, plug-in direction vertical to the PCB

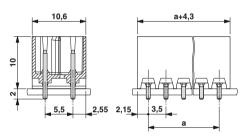
Dimensional drawing

11,6

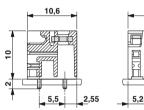
Dimensional drawing

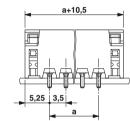


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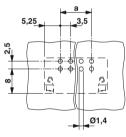


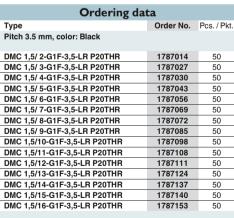


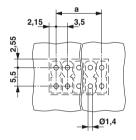
Drilling diagram



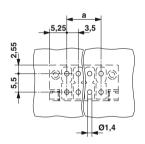
Drilling diagram







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.5 mm, color: Black				
DMCV 1,5/ 2-G1-3,5 P20THR	1787205	50		
DMCV 1,5/ 3-G1-3,5 P20THR	1787218	50		
DMCV 1,5/ 4-G1-3,5 P20THR	1787221	50		
DMCV 1,5/ 5-G1-3,5 P20THR	1787234	50		
DMCV 1,5/ 6-G1-3,5 P20THR	1787247	50		
DMCV 1,5/ 7-G1-3,5 P20THR	1787250	50		
DMCV 1,5/ 8-G1-3,5 P20THR	1787263	50		
DMCV 1,5/ 9-G1-3,5 P20THR	1787276	50		
DMCV 1,5/10-G1-3,5 P20THR	1787289	50		
DMCV 1,5/11-G1-3,5 P20THR	1787292	50		
DMCV 1,5/12-G1-3,5 P20THR	1787302	50		
DMCV 1,5/13-G1-3,5 P20THR	1787315	50		
DMCV 1,5/14-G1-3,5 P20THR	1787328	50		
DMCV 1,5/15-G1-3,5 P20THR	1787331	50		
DMCV 1,5/16-G1-3,5 P20THR	1787344	50		



	Ordering dat	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	Pitch 3.5 mm, color: Black		
	DMCV 1,5/ 2-G1F-3,5-LR P20THR	1787399	50
	DMCV 1,5/ 3-G1F-3,5-LR P20THR	1787409	50
	DMCV 1,5/ 4-G1F-3,5-LR P20THR	1787412	50
	DMCV 1,5/ 5-G1F-3,5-LR P20THR	1787425	50
_	DMCV 1,5/ 6-G1F-3,5-LR P20THR	1787438	50
	DMCV 1,5/ 7-G1F-3,5-LR P20THR	1787441	50
	DMCV 1,5/ 8-G1F-3,5-LR P20THR	1787454	50
_	DMCV 1,5/ 9-G1F-3,5-LR P20THR	1787467	50
	DMCV 1,5/10-G1F-3,5-LR P20THR	1787470	50
	DMCV 1,5/11-G1F-3,5-LR P20THR	1787483	50
	DMCV 1,5/12-G1F-3,5-LR P20THR	1787496	50
	DMCV 1,5/13-G1F-3,5-LR P20THR	1787506	50
	DMCV 1,5/14-G1F-3,5-LR P20THR	1787519	50
	DMCV 1,5/15-G1F-3,5-LR P20THR	1787522	50
_	DMCV 1,5/16-G1F-3,5-LR P20THR	1787535	50

Two-row headers for reflow processes



- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- Reel diameter 330 mm
- Tape width corresponds to order designation
- Extremely small THR two-row headers for SMT and wave soldering processes
- At 8 mm, the distance from the edge of the PCB to the first row of holes is compatible with MC headers
- Headers with flange can be combined with screw-type Lock & Release lever connectors

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

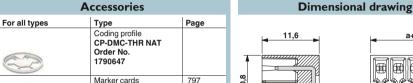
Panel cutout dimensions for DMC 1,5 and DMCV 1,5 appear on page 840.

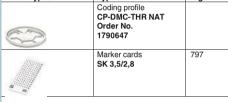
Pick and place pads for taped THR articles usually protrude be-yond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

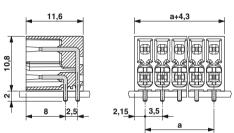


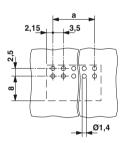
Plug-in direction parallel to the PCB

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Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	8	
	160	
	3.5	
III/3	III/2	II / 2
160	160	250
2.5	2.5	2.5
В	С	D
150	-	-
8	-	-
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	LCP / IIIa	
	V0	
1.4	1 / 0,8 x 0,8 r	nm

No. of pos.	Dim. a
No. 01 pos.	[mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMC 1,5/ 2-G1-3,5 P20THR R24-1	1816137	180
DMC 1,5/ 3-G1-3,5 P20THR R24-2	1816140	180
DMC 1,5/ 4-G1-3,5 P20THR R44	1816153	180
DMC 1,5/ 5-G1-3,5 P20THR R44	1816166	180
DMC 1,5/ 6-G1-3,5 P20THR R44	1818478	180
DMC 1,5/ 7-G1-3,5 P20THR R56	1818481	180
DMC 1,5/ 8-G1-3,5 P20THR R56	1816179	180
DMC 1,5/ 9-G1-3,5 P20THR R56	1818494	180
DMC 1,5/10-G1-3,5 P20THR R56	1816182	180
DMC 1,5/11-G1-3,5 P20THR R72	1706049	180
DMC 1,5/12-G1-3,5 P20THR R72	1706051	180
DMC 1,5/13-G1-3,5 P20THR R72	1706052	180
DMC 1,5/14-G1-3,5 P20THR R72	1706054	180
·		

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



With Lock & Release mechanism and threaded flange, plug-in direction parallel to the PCB

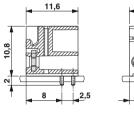


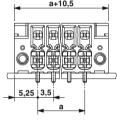
Plug-in direction vertical to the PCB



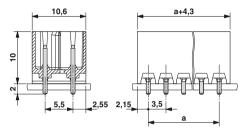
With Lock & Release mechanism and threaded flange, plug-in direction vertical to the PCB

Dimensional drawing

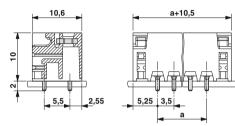




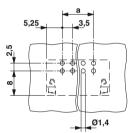
Dimensional drawing

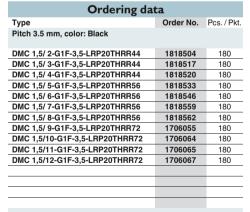


Dimensional drawing

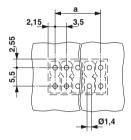


Drilling diagram





Drilling diagram



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMCV 1,5/ 2-G1-3,5 P20THR R24	1818575	220
DMCV 1,5/ 3-G1-3,5 P20THR R24	1818588	220
DMCV 1,5/ 4-G1-3,5 P20THR R44	1818591	220
DMCV 1,5/ 5-G1-3,5 P20THR R44	1818601	220
DMCV 1,5/ 6-G1-3,5 P20THR R44	1818614	220
DMCV 1,5/ 7-G1-3,5 P20THR R56	1818627	220
DMCV 1,5/ 8-G1-3,5 P20THR R56	1818630	220
DMCV 1,5/ 9-G1-3,5 P20THR R56	1818643	220
DMCV 1,5/10-G1-3,5 P20THR R56	1818656	220
DMCV 1,5/11-G1-3,5 P20THR R72	1818669	220
DMCV 1,5/12-G1-3,5 P20THR R72	1818672	220
DMCV 1,5/13-G1-3,5 P20THR R72	1818685	220
DMCV 1,5/14-G1-3,5 P20THR R72	1818698	220

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		-	5,25	_	3 ,5		
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2,2							

Ø1,4

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMCV 1,5/ 2-G1F-3,5-LRP20THRR32	1818708	220
DMCV 1,5/ 3-G1F-3,5-LRP20THRR44	1818711	220
DMCV 1,5/ 4-G1F-3,5-LRP20THRR44	1818724	220
DMCV 1,5/ 5-G1F-3,5-LRP20THRR56	1818737	220
DMCV 1,5/ 6-G1F-3,5-LRP20THRR56	1818740	220
DMCV 1,5/ 7-G1F-3,5-LRP20THRR56	1818753	220
DMCV 1,5/ 8-G1F-3,5-LRP20THRR56	1818766	220
DMCV 1,5/ 9-G1F-3,5-LRP20THRR72	1818779	220
DMCV 1,5/10-G1F-3,5-LRP20THRR72	1818782	220
DMCV 1,5/11-G1F-3,5-LRP20THRR72	1818795	220
DMCV 1,5/12-G1F-3,5-LRP20THRR72	1818805	220

Connector with a screw connection



- Flat design of the MC 1,5 connector
- Generously dimensioned wiring space
- Plug-in direction parallel to the conductor axis
- Versions with and without screw flanges and Lock & Release levers
- Individual position coding by removing the coding tab and connecting the coding profile to the header
- Versions with a pullout aid can be provided; cables can be fixed to the pullout aid using cable binders
- Higher numbers of positions up to 20-pos. can be found at:

www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Dimension b: 3 to 4-pos. = 9.9 mm 5 to 7-pos. = 17.2 mm 8 to 9-pos. = 27.9 mm ≥ 10-pos. = 34.7 mm

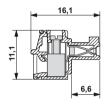
The maximum torque for the screw flange is 0.3 Nm.

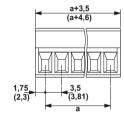
1) Please observe the derating curves. Derating curves of further combination options on request.

Plug with screw connection

€ •**\$1** us € <u>6</u> C<u>B</u>.

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories				
For all types	Туре	Page		
• •	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797		
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037			
Only for a 3.81 mm pitc	h			
	Insertion bridge EBPL3,81	829		

Technical data	
Technical data in accordance to IEC / DIN VI)E
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree	
nated insulation voltage for politilon degree .	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	

	81) / 1.5	
	160	
	3.5 / 3.81	
0.14 - 1.5	/ 0.14 - 1.	5 / 28 - 16
	0.25 - 1.5	
	0.25 - 0.5	
	0 = / 0 00	
	0.5 / 0.08	
	0.25 - 0.34	
	0.5 - 0.5	
	III / 0	11.70
III / 3	III / 2	11/2
160	160	320
2.5	2.5	2.5
В	С	D
300 8	-	300
30 - 14	-	30 - 14
30 - 14 B	- C	30 - 14 D
300	C	300
8		8
28 - 16		28 - 16
20-10	-	20 - 10
	7	
	M2	
	0.22 - 0.25	;
	PA/I	,
	V0	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	3.5 mm pitch, color: green		
2	3.50	MC 1,5/ 2-ST-3,5	1840366	50
3	7.00	MC 1,5/ 3-ST-3,5	1840379	50
4	10.50	MC 1,5/ 4-ST-3,5	1840382	50
5	14.00	MC 1,5/ 5-ST-3,5	1840395	50
6	17.50	MC 1,5/ 6-ST-3,5	1840405	50
7	21.00	MC 1,5/ 7-ST-3,5	1840418	50
8	24.50	MC 1,5/ 8-ST-3,5	1840421	50
9	28.00	MC 1,5/ 9-ST-3,5	1840434	50
10	31.50	MC 1,5/10-ST-3,5	1840447	50
11	35.00	MC 1,5/11-ST-3,5	1840450	50
12	38.50	MC 1,5/12-ST-3,5	1840463	50
13	42.00	MC 1,5/13-ST-3,5	1840476	50
14	45.50	MC 1,5/14-ST-3,5	1840489	50
15	49.00	MC 1,5/15-ST-3,5	1840492	50
16	52.50	MC 1,5/16-ST-3,5	1840502	50
		Pitch 3.81 mm, color: green		
2	3.81	MC 1,5/ 2-ST-3,81	1803578	50
3	7.62	MC 1,5/ 3-ST-3,81	1803581	50
4	11.43	MC 1,5/ 4-ST-3,81	1803594	50
5	15.24	MC 1,5/ 5-ST-3,81	1803604	50
6	19.05	MC 1,5/ 6-ST-3,81	1803617	50
7	22.86	MC 1,5/ 7-ST-3,81	1803620	50
8	26.67	MC 1,5/ 8-ST-3,81	1803633	50
9	30.48	MC 1,5/ 9-ST-3,81	1803646	50
10	34.29	MC 1,5/10-ST-3,81	1803659	50
11	38.10	MC 1,5/11-ST-3,81	1803662	50
12	41.91	MC 1,5/12-ST-3,81	1803675	50
13	45.72	MC 1,5/13-ST-3,81	1803688	50
14	49.53	MC 1,5/14-ST-3,81	1803691	50
15	53.34	MC 1,5/15-ST-3,81	1803701	50
16	57.15	MC 1,5/16-ST-3,81	1803714	50









With screw flange

Dimensional drawing



With Lock & Release system

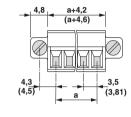
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Dimensional drawing 0 亘

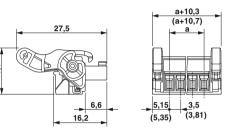
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(F) LUS (C) LOS CB

16,1

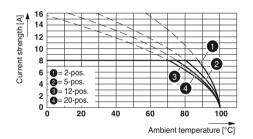


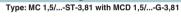
Dimensional drawing

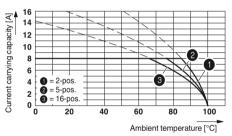


Representative derating curves of the above-mentioned plugs

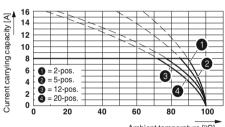
Type: MC 1,5/...-ST-3.81 with MC 1,5/...-G-3.81







Type: MC 1,5/...-ST-3,81 with SMC 1,5/...-G-3,81



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
3.5 mm pitch, color: green				
MC 1,5/ 3-STZ1-3,5	1768871	50		
MC 1,5/ 4-STZ1-3,5	1767500	50		
MC 1,5/ 5-STZ2-3,5	1767623	50		
MC 1,5/ 6-STZ2-3,5	1767610	50		
MC 1,5/ 7-STZ2-3,5	1768884	50		
MC 1,5/ 8-STZ3-3,5	1765599	50		
MC 1,5/ 9-STZ3-3,5	1768897	50		
MC 1,5/10-STZ4-3,5	1766255	50		
MC 1,5/11-STZ4-3,5	1768907	50		

MC 1,5/12-STZ4-3,5	1768910	50
Pitch 3.81 mm, color: green		
MC 1,5/ 3-STZ1-3,81	1768923	50
MC 1,5/ 4-STZ1-3,81	1767461	50
MC 1,5/ 5-STZ2-3,81	1768936	50
MC 1,5/ 6-STZ2-3,81	1767694	50
MC 1,5/ 7-STZ2-3,81	1768949	50
MC 1,5/ 8-STZ3-3,81	1768952	50
MC 1,5/ 9-STZ3-3,81	1767665	50
MC 1,5/10-STZ4-3,81	1767209	50
MC 1,5/11-STZ4-3,81	1768965	50
MC 1,5/12-STZ4-3,81	1768978	50
MC 1,5/13-STZ4-3,81	1765557	50
·		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
3.5 mm pitch, color: green				
MC 1,5/ 2-STF-3,5	1847055	50		
MC 1,5/ 3-STF-3,5	1847068	50		
MC 1,5/ 4-STF-3,5	1847071	50		
MC 1,5/ 5-STF-3,5	1847084	50		
MC 1,5/ 6-STF-3,5	1847097	50		
MC 1,5/ 7-STF-3,5	1847107	50		
MC 1,5/ 8-STF-3,5	1847181	50		
MC 1,5/ 9-STF-3,5	1847194	50		
MC 1,5/10-STF-3,5	1847204	50		
MC 1,5/11-STF-3,5	1847217	50		
MC 1,5/12-STF-3,5	1847220	50		
MC 1,5/13-STF-3,5	1847233	50		
MC 1,5/14-STF-3,5	1847246	50		
MC 1,5/15-STF-3,5	1847259	50		
MC 1,5/16-STF-3,5	1847262	50		
Pitch 3.81 mm, color: green				
MC 1,5/ 2-STF-3,81	1827703	50		
MC 1,5/ 3-STF-3,81	1827716	50		
MC 1,5/ 4-STF-3,81	1827729	50		
MC 1,5/ 5-STF-3,81	1827732	50		
MC 1,5/ 6-STF-3,81	1827745	50		
MC 1,5/ 7-STF-3,81	1827758	50		
MC 1,5/ 8-STF-3,81	1827761	50		
MC 1,5/ 9-STF-3,81	1827774	50		
MC 1,5/10-STF-3,81	1827787	50		
MC 1,5/11-STF-3,81	1827790	50		
MC 1,5/12-STF-3,81	1827800	50		
MC 1,5/13-STF-3,81	1827813	50		
MC 1,5/14-STF-3,81	1827826	50		

	Ambient temperature [°C]		
Orderi	ng data		
Туре	Order No.	Pcs. / Pkt	
3.5 mm pitch, color: green			
MC 1,5/ 2-ST-3,5-LR	1816852	50	
MC 1,5/ 3-ST-3,5-LR	1816865	50	
MC 1,5/ 4-ST-3,5-LR	1816878	50	
MC 1,5/ 5-ST-3,5-LR	1816881	50	
MC 1,5/ 6-ST-3,5-LR	1816894	50	
MC 1,5/ 7-ST-3,5-LR	1816904	50	
MC 1,5/ 8-ST-3,5-LR	1816917	50	
MC 1,5/ 9-ST-3,5-LR	1816920	50	
MC 1,5/10-ST-3,5-LR	1816933	50	
MC 1,5/11-ST-3,5-LR	1816946	50	
MC 1,5/12-ST-3,5-LR	1816959	50	
MC 1,5/13-ST-3,5-LR	1816962	50	
MC 1,5/14-ST-3,5-LR	1816975	50	
MC 1,5/15-ST-3,5-LR	1816988	50	
MC 1,5/16-ST-3,5-LR	1816991	50	
Pitch 3.81 mm, color: green			
MC 1,5/ 2-ST-3,81-LR	1817042	50	
MC 1,5/ 3-ST-3,81-LR	1817055	50	
MC 1,5/ 4-ST-3,81-LR	1817068	50	
MC 1,5/ 5-ST-3,81-LR	1817071	50	
MC 1,5/ 6-ST-3,81-LR	1817084	50	
MC 1,5/ 7-ST-3,81-LR	1817097	50	
MC 1,5/ 8-ST-3,81-LR	1817107	50	
MC 1,5/ 9-ST-3,81-LR	1817110	50	
MC 1,5/10-ST-3,81-LR	1817123	50	
MC 1,5/11-ST-3,81-LR	1817136	50	
MC 1,5/12-ST-3,81-LR	1817149	50	
MC 1,5/13-ST-3,81-LR	1817152	50	
MC 1,5/14-ST-3,81-LR	1817165	50	
MC 1,5/15-ST-3,81-LR	1817178	50	
MC 1,5/16-ST-3,81-LR	1817181	50	

1827839

1827842

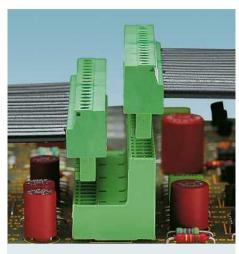
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MC 1,5/15-STF-3,81

MC 1,5/16-STF-3,81

Connector with a screw connection



- Plugs for vertical plug-in direction
- Compact dimensions of the MCV 1,5 connector range
- Generously dimensioned wiring space
- Versions with and without a screw flange
- Individual position coding by removing the coding tab and connecting the coding profile to the header

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

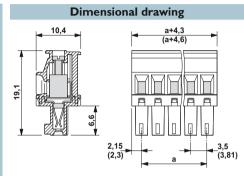
The maximum torque for the screw flange is 0.3 Nm.

1) Derating curves on request.



Conductor entry facing coding side

CB CB



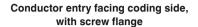
	Accessories	
For all types	Туре	Page
a .	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797
•	Screwdriver SZS 0,4 x 2,5 Order No. 1205037	
Only for a 3.81 mm	pitch	
	Insertion bridge EBPL3,81	829

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	e cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

	01\ / 1 E	
	81) / 1.5 160	
	100	
	3.5 / 3.81	
	0.07 0.01	
0.14 - 1.5	5 / 0.14 - 1.5	5 / 28 - 16
	0.25 - 1.5	
	0.25 - 0.5	
0.08	- 0.5 / 0.08	- 0.75
	0.25 - 0.34	
	0.5 - 0.5	
III/3	III/2	II / 2
160	160	320
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
30 - 14	-	30 - 14
В	С	D
-	-	-
-	-	-
-	-	-
	-	
	7	
	M2	
	M2 0.22 - 0.25	
	M2	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	3.5 mm pitch, color: green		
2	3.50	MCVR 1,5/ 2-ST-3,5	1863152	50
3	7.00	MCVR 1,5/ 3-ST-3,5	1863165	50
4	10.50	MCVR 1,5/ 4-ST-3,5	1863178	50
5	14.00	MCVR 1,5/ 5-ST-3,5	1863181	50
6	17.50	MCVR 1,5/ 6-ST-3,5	1863194	50
7	21.00	MCVR 1,5/ 7-ST-3,5	1863204	50
8	24.50	MCVR 1,5/ 8-ST-3,5	1863217	50
9	28.00	MCVR 1,5/ 9-ST-3,5	1863220	50
10	31.50	MCVR 1,5/10-ST-3,5	1863233	50
11	35.00	MCVR 1,5/11-ST-3,5	1863246	50
12	38.50	MCVR 1,5/12-ST-3,5	1863259	50
13	42.00	MCVR 1,5/13-ST-3,5	1863262	50
14	45.50	MCVR 1,5/14-ST-3,5	1863275	50
15	49.00	MCVR 1,5/15-ST-3,5	1863288	50
16	52.50	MCVR 1,5/16-ST-3,5	1863291	50
		Pitch 3.81 mm, color: green		
2	3.81	MCVR 1,5/ 2-ST-3,81	1827127	50
3	7.62	MCVR 1,5/ 3-ST-3,81	1827130	50
4	11.43	MCVR 1,5/ 4-ST-3,81	1827143	50
5	15.24	MCVR 1,5/ 5-ST-3,81	1827156	50
6	19.05	MCVR 1,5/ 6-ST-3,81	1827169	50
7	22.86	MCVR 1,5/ 7-ST-3,81	1827172	50
8	26.67	MCVR 1,5/ 8-ST-3,81	1827185	50
9	30.48	MCVR 1,5/ 9-ST-3,81	1827198	50
10	34.29	MCVR 1,5/10-ST-3,81	1827208	50
11	38.10	MCVR 1,5/11-ST-3,81	1827211	50
12	41.91	MCVR 1,5/12-ST-3,81	1827224	50
13	45.72	MCVR 1,5/13-ST-3,81	1827237	50
14	49.53	MCVR 1,5/14-ST-3,81	1827240	50
15	53.34	MCVR 1,5/15-ST-3,81	1827253	50
16	57.15	MCVR 1,5/16-ST-3,81	1827266	50





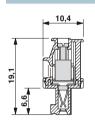


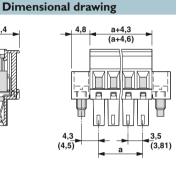
Conductor entry facing rippled side



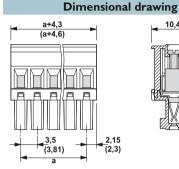
Conductor entry facing rippled side, with screw flange

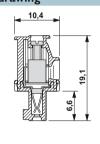




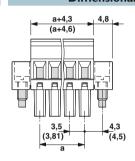


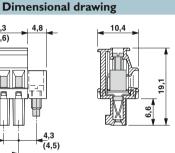
CB Scheme





CB CB Scheme





Ordering d	ata	
Туре	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: green		
MCVR 1,5/ 2-STF-3,5	1863301	50
MCVR 1,5/ 3-STF-3,5	1863314	50
MCVR 1,5/ 4-STF-3,5	1863327	50
MCVR 1,5/ 5-STF-3,5	1863330	50
MCVR 1,5/ 6-STF-3,5	1863343	50
MCVR 1,5/ 7-STF-3,5	1863356	50
MCVR 1,5/ 8-STF-3,5	1863369	50
MCVR 1,5/ 9-STF-3,5	1863372	50
MCVR 1,5/10-STF-3,5	1863385	50
MCVR 1,5/11-STF-3,5	1863398	50
MCVR 1,5/12-STF-3,5	1863408	50
MCVR 1,5/13-STF-3,5	1863411	50
MCVR 1,5/14-STF-3,5	1863424	50
MCVR 1,5/15-STF-3,5	1863437	50
MCVR 1,5/16-STF-3,5	1863440	50
Pitch 3.81 mm, color: green		
MCVR 1,5/ 2-STF-3,81	1828346	50
MCVR 1,5/ 3-STF-3,81	1828359	50
MCVR 1,5/ 4-STF-3,81	1828362	50
MCVR 1,5/ 5-STF-3,81	1828375	50
MCVR 1,5/ 6-STF-3,81	1828388	50
MCVR 1,5/ 7-STF-3,81	1828391	50
MCVR 1,5/ 8-STF-3,81	1828401	50
MCVR 1,5/ 9-STF-3,81	1828414	50
MCVR 1,5/10-STF-3,81	1828427	50
MCVR 1,5/11-STF-3,81	1828430	50
MCVR 1,5/12-STF-3,81	1828443	50
MCVR 1,5/13-STF-3,81	1828456	50
MCVR 1,5/14-STF-3,81	1828469	50
MCVR 1,5/15-STF-3,81	1828472	50
MCVR 1,5/16-STF-3,81	1828485	50

Ordering data		Ordering data			
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: green			3.5 mm pitch, color: green		
MCVW 1,5/ 2-ST-3,5	1862852	50	MCVW 1,5/ 2-STF-3,5	1863000	50
MCVW 1,5/ 3-ST-3,5	1862865	50	MCVW 1,5/ 3-STF-3,5	1863013	50
MCVW 1,5/ 4-ST-3,5	1862878	50	MCVW 1,5/ 4-STF-3,5	1863026	50
MCVW 1,5/ 5-ST-3,5	1862881	50	MCVW 1,5/ 5-STF-3,5	1863039	50
MCVW 1,5/ 6-ST-3,5	1862894	50	MCVW 1,5/ 6-STF-3,5	1863042	50
MCVW 1,5/ 7-ST-3,5	1862904	50	MCVW 1,5/ 7-STF-3,5	1863055	50
MCVW 1,5/ 8-ST-3,5	1862917	50	MCVW 1,5/ 8-STF-3,5	1863068	50
MCVW 1,5/ 9-ST-3,5	1862920	50	MCVW 1,5/ 9-STF-3,5	1863071	50
MCVW 1,5/10-ST-3,5	1862933	50	MCVW 1,5/10-STF-3,5	1863084	50
MCVW 1,5/11-ST-3,5	1862946	50	MCVW 1,5/11-STF-3,5	1863097	50
MCVW 1,5/12-ST-3,5	1862959	50	MCVW 1,5/12-STF-3,5	1863107	50
MCVW 1,5/13-ST-3,5	1862962	50	MCVW 1,5/13-STF-3,5	1863110	50
MCVW 1,5/14-ST-3,5	1862975	50	MCVW 1,5/14-STF-3,5	1863123	50
MCVW 1,5/15-ST-3,5	1862988	50	MCVW 1,5/15-STF-3,5	1863136	50
MCVW 1,5/16-ST-3,5	1862991	50	MCVW 1,5/16-STF-3,5	1863149	50
Pitch 3.81 mm, color: green			Pitch 3.81 mm, color: green		
MCVW 1,5/ 2-ST-3,81	1826979	50	MCVW 1,5/ 2-STF-3,81	1828498	50
MCVW 1,5/ 3-ST-3,81	1826982	50	MCVW 1,5/ 3-STF-3,81	1828508	50
MCVW 1,5/ 4-ST-3,81	1826995	50	MCVW 1,5/ 4-STF-3,81	1828511	50
MCVW 1,5/ 5-ST-3,81	1827004	50	MCVW 1,5/ 5-STF-3,81	1828524	50
MCVW 1,5/ 6-ST-3,81	1827017	50	MCVW 1,5/ 6-STF-3,81	1828537	50
MCVW 1,5/ 7-ST-3,81	1827020	50	MCVW 1,5/ 7-STF-3,81	1828540	50
MCVW 1,5/ 8-ST-3,81	1827033	50	MCVW 1,5/ 8-STF-3,81	1828553	50
MCVW 1,5/ 9-ST-3,81	1827046	50	MCVW 1,5/ 9-STF-3,81	1828566	50
MCVW 1,5/10-ST-3,81	1827059	50	MCVW 1,5/10-STF-3,81	1828579	50
MCVW 1,5/11-ST-3,81	1827062	50	MCVW 1,5/11-STF-3,81	1828582	50
MCVW 1,5/12-ST-3,81	1827075	50	MCVW 1,5/12-STF-3,81	1828595	50
MCVW 1,5/13-ST-3,81	1827088	50	MCVW 1,5/13-STF-3,81	1828605	50
MCVW 1,5/14-ST-3,81	1827091	50	MCVW 1,5/14-STF-3,81	1828618	50
MCVW 1,5/15-ST-3,81	1827101	50	MCVW 1,5/15-STF-3,81	1828621	50
MCVW 1,5/16-ST-3,81	1827114	50	MCVW 1,5/16-STF-3,81	1828634	50
-					

Connector with a screw connection



- Plugs with front screw connection
- Pitch: 3.81 mm
- Screwdriver axis parallel to the conduc-
- Generously dimensioned wiring space
- Individual position coding by removing the coding tab and connecting the coding profile to the header
- Versions with and without a screw
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

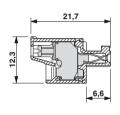


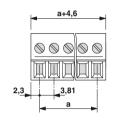
With front screw connection

CB street

Accessories For all types Туре Page Marker cards SK 3,5/2,8 or SK 797 3,81/2,8 Screwdriver SZS 0,4 x 2,5 Order No. 1205037 829 Insertion bridge EBPL...-3,81

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

	81) / 1.5			
	160			
	3.81			
0.14 - 1.5	/ 0.14 - 1.5	7 28 - 16		
	0.25 - 1.5			
	0.25 - 0.5			
0.14 -	0.5 / 0.14 -	0.75		
	0.25 - 0.34			
	0.5 - 0.5			
III/3	III/2	II / 2		
160	160	320		
2.5	2.5	2.5		
В	С	D		
300	-	300		
- 8	-	8		
30 - 16	-	30 - 16		
В	С	D		
300	-	300		
8	-	8		
28 - 16	-	28 - 16		
	9			
-	M2			
	0.22 - 0.25	-		
	PA/I			
	V0			

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.18

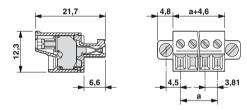
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: green			
FRONT-MC 1,5/ 2-ST-3,81	1850660	50	
FRONT-MC 1,5/ 3-ST-3,81	1850673	50	
FRONT-MC 1,5/ 4-ST-3,81	1850686	50	
FRONT-MC 1,5/ 5-ST-3,81	1850699	50	
FRONT-MC 1,5/ 6-ST-3,81	1850709	50	
FRONT-MC 1,5/ 7-ST-3,81	1850712	50	
FRONT-MC 1,5/ 8-ST-3,81	1850725	50	
FRONT-MC 1,5/ 9-ST-3,81	1850738	50	
FRONT-MC 1,5/10-ST-3,81	1850741	50	
FRONT-MC 1,5/11-ST-3,81	1850754	50	
FRONT-MC 1,5/12-ST-3,81	1850767	50	
FRONT-MC 1,5/13-ST-3,81	1850770	50	
FRONT-MC 1,5/14-ST-3,81	1850783	50	
FRONT-MC 1,5/15-ST-3,81	1850796	50	
FRONT-MC 1,5/16-ST-3,81	1850806	50	



With front screw connection and screw flange

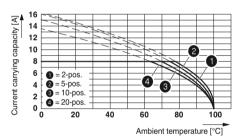
(CB us CDE CB

Dimensional drawing



Representative derating curve

Type: FRONT-MC 1,5/...-ST-3,81 with MC 1,5/...-G-3,81



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.81 mm, color: green				
FRONT-MC 1,5/ 2-STF-3,81	1850851	50		
FRONT-MC 1,5/ 3-STF-3,81	1850864	50		
FRONT-MC 1,5/ 4-STF-3,81	1850877	50		
FRONT-MC 1,5/ 5-STF-3,81	1850880	50		
FRONT-MC 1,5/ 6-STF-3,81	1850893	50		
FRONT-MC 1,5/ 7-STF-3,81	1850903	50		
FRONT-MC 1,5/ 8-STF-3,81	1850916	50		
FRONT-MC 1,5/ 9-STF-3,81	1850929	50		
FRONT-MC 1,5/10-STF-3,81	1850932	50		
FRONT-MC 1,5/11-STF-3,81	1850945	50		
FRONT-MC 1,5/12-STF-3,81	1850958	50		
FRONT-MC 1,5/13-STF-3,81	1850961	50		
FRONT-MC 1,5/14-STF-3,81	1850974	50		
FRONT-MC 1,5/15-STF-3,81	1850987	50		
FRONT-MC 1,5/16-STF-3,81	1850990	50		

Inverted connectors with a screw connection



- Use in contact protected applications
- Combination options with MC 1,5 connectors for free hanging connections
- Pitch: 3.81 mm
- Combination options with IMC headers for a clear separation of PCB inputs/out-
- Individual position coding by connecting the coding profile to the inverted connector and by removing the coding tab on the counterpart
- Versions with and without a threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

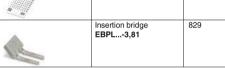
1) Please observe the derating curves. Derating curves of further combination options on request.



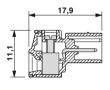
Inverted plug with screw connection

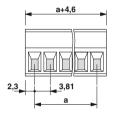
CB CB

Accessories For all types Туре Page Coding profile CP-MSTB 38 1734634 Screwdriver SZS 0,4 x 2,5 Order No. 1205037 797 Marker cards SK 3,81/2,8



Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Hated current / conductor cross section	[A] / [mm-]
Rated insulation voltage for pollution de	gree 2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sle	eeve [mm²]
Stranded with ferrules with plastic sleev	e [mm²]
Multi-conductor connection capacity (two conduct	tors with the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sle	eeve [mm²]
Stranded with TWIN ferrule with plastic	sleeve [mm ²]
Insulation coordination	
Surge voltage category / pollution degre	e
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group

Technical data

Technical data in accordance to IEC / DIN VDE

insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

	81) / 1.5			
	160			
	3.81			
0.14 - 1.	5 / 0.14 - 1.5	/ 28 - 16		
	0.25 - 1.5			
	0.25 - 0.5			
0.08	- 0.5 / 0.08 -	0.75		
	0.2 - 0.34			
	0.5 - 0.5			
III/3	III/2	II / 2		
160	160	320		
2.5	2.5	2.5		
В	С	D		
300	-	300		
8	-	8		
30 - 14		30 - 14		
В	С	D		
	-	-		
	-	-		
-	-	-		
	7			
	M2			
	0.22 - 0.25			
	PA/I			
	V0			

		Туре
No. of pos.	Dim. a [mm]	Pitch 3.81 r
2	3.81	IMC 1,5/ 2-9
3	7.62	IMC 1,5/ 3-9
4	11.43	IMC 1,5/ 4-9
5	15.24	IMC 1,5/ 5-9
6	19.05	IMC 1,5/ 6-9
7	22.86	IMC 1,5/ 7-9
8	26.67	IMC 1,5/ 8-9
9	30.48	IMC 1,5/ 9-9
10	34.29	IMC 1,5/10-
11	38.10	IMC 1,5/11-
12	41.91	IMC 1,5/12-
13	45.72	IMC 1,5/13-
14	49.53	IMC 1,5/14-
15	53.34	IMC 1,5/15-
16	57.15	IMC 1,5/16-

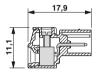
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: green			
IMC 1,5/ 2-ST-3,81	1857883	50	
IMC 1,5/ 3-ST-3,81	1857896	50	
IMC 1,5/ 4-ST-3,81	1857906	50	
IMC 1,5/ 5-ST-3,81	1857919	50	
IMC 1,5/ 6-ST-3,81	1857922	50	
IMC 1,5/ 7-ST-3,81	1857935	50	
IMC 1,5/ 8-ST-3,81	1857948	50	
IMC 1,5/ 9-ST-3,81	1857951	50	
IMC 1,5/10-ST-3,81	1857964	50	
IMC 1,5/11-ST-3,81	1857977	50	
IMC 1,5/12-ST-3,81	1857980	50	
IMC 1,5/13-ST-3,81	1857993	50	
IMC 1,5/14-ST-3,81	1858002	50	
IMC 1,5/15-ST-3,81	1858015	50	
IMC 1,5/16-ST-3,81	1858028	50	
•			

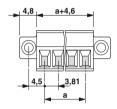


With threaded flange for screw connection with MC plugs

CB US CB

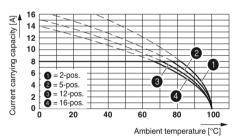
Dimensional drawing





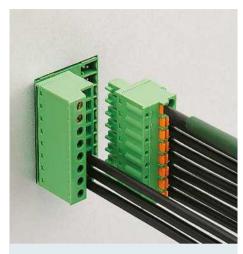
Representative derating curve

Type: IMC 1,5/...-ST-3,81 with IMC 1,5/...-G-3,81



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.81 mm, color: green				
IMC 1,5/ 2-STGF-3,81	1858031	50		
IMC 1,5/ 3-STGF-3,81	1858044	50		
IMC 1,5/ 4-STGF-3,81	1858057	50		
IMC 1,5/ 5-STGF-3,81	1858060	50		
IMC 1,5/ 6-STGF-3,81	1858073	50		
IMC 1,5/ 7-STGF-3,81	1858086	50		
IMC 1,5/ 8-STGF-3,81	1858099	50		
IMC 1,5/ 9-STGF-3,81	1858109	50		
IMC 1,5/10-STGF-3,81	1858112	50		
IMC 1,5/11-STGF-3,81	1858125	50		
IMC 1,5/12-STGF-3,81	1858138	50		
IMC 1,5/13-STGF-3,81	1858141	50		
IMC 1,5/14-STGF-3,81	1858154	50		
IMC 1,5/15-STGF-3,81	1858167	50		
IMC 1.5/16-STGF-3.81	1858170	50		

Plug with push-in spring connection



- Different combination options with MC headers with a 3.5/3.81 pitch
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Test connection to accommodate 1.2 mm Ø test pins or 1 mm Ø test con-
- Versions with and without a screw flange
- Versions with Lock & Release system
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

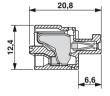
- 1) Please observe the derating curves. Derating curves of further combination options on request.
- ²) Use of ferrules with stripping length $L_2 = 10 \text{ mm}$

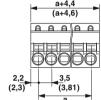


Plug with push-in spring connection

Dimensional drawing

CB CB





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037		
· .	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797	
	Ferrules with and without plastic sleeve	834	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
19	Test plug MPS-MT 1-S Order No. 1944372	831	

V0

Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]		81) / 1.5	
Rated insulation voltage for pollution degree 2	[V]		160	
Pitch	[mm]		3.5 / 3.81	
Connection capacity				
Solid / stranded [mm ²]	/ [mm²] / AWG	0.14 - 1.5	/ 0.14 - 1.	5/26-16
Stranded with ferrules without plastic sleeve	[mm ²]	-	0.25 - 1.52)
Stranded with ferrules with plastic sleeve	[mm ²]	-	0.25 - 0.5 ²)
Multi-conductor connection capacity (two conductors with the sam	e cross section)			
Solid / stranded	[mm ²]		-/-	
Stranded with ferrules without plastic sleeve	[mm ²]		-	
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		-	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11/2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	28 - 16	-	28 - 16
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]		9	
Type of insulation material / insulation material group			PA/I	

No. of pos. Dim. a [mm] 2 3.50 FK-MCP 1,5/2-ST-3,5 1939918 50					
No. of pos. Dim. a [mm] 3.5 mm pitch, color: green 2 3.50 FK-MCP 1,5/2-ST-3,5 1939918 50 3 7.00 FK-MCP 1,5/3-ST-3,5 1939921 50 4 10.50 FK-MCP 1,5/4-ST-3,5 1939934 50 5 14.00 FK-MCP 1,5/5-ST-3,5 1939947 50 6 17.50 FK-MCP 1,5/5-ST-3,5 1939950 50 7 21.00 FK-MCP 1,5/6-ST-3,5 1939963 50 8 24.50 FK-MCP 1,5/8-ST-3,5 1939963 50 9 28.00 FK-MCP 1,5/9-ST-3,5 1939976 50 10 31.50 FK-MCP 1,5/10-ST-3,5 1939989 50 11 35.00 FK-MCP 1,5/11-ST-3,5 1939992 50 13 42.00 FK-MCP 1,5/13-ST-3,5 1940017 50 14 45.50 FK-MCP 1,5/14-ST-3,5 1940020 50 15 49.00 FK-MCP 1,5/16-ST-3,5 1940020 50 16 52.50		Ordering data			
[mm] 2 3.50 FK-MCP 1,5/2-ST-3,5 1939918 50 3 7.00 FK-MCP 1,5/3-ST-3,5 1939934 50 4 10.50 FK-MCP 1,5/5-ST-3,5 1939934 50 5 14.00 FK-MCP 1,5/5-ST-3,5 1939947 50 6 17.50 FK-MCP 1,5/5-ST-3,5 1939950 50 7 21.00 FK-MCP 1,5/5-ST-3,5 1939950 50 8 24.50 FK-MCP 1,5/6-ST-3,5 1939960 50 9 28.00 FK-MCP 1,5/6-ST-3,5 1939963 50 9 28.00 FK-MCP 1,5/6-ST-3,5 1939976 50 10 31.50 FK-MCP 1,5/10-ST-3,5 1939989 50 11 35.00 FK-MCP 1,5/10-ST-3,5 1939992 50 12 38.50 FK-MCP 1,5/12-ST-3,5 1940004 50 13 42.00 FK-MCP 1,5/13-ST-3,5 1940017 50 14 45.50 FK-MCP 1,5/13-ST-3,5 1940017 50 15 49.00 FK-MCP 1,5/16-ST-3,5 1940020 50 16 52.50 FK-MCP 1,5/16-ST-3,5 1940033 50 16 52.50 FK-MCP 1,5/16-ST-3,5 1940046 50 Pitch 3,81 mm, color: green 2 3.81 FK-MCP 1,5/6-ST-3,81 1851054 50 Pitch 3,81 mm, color: green FK-MCP 1,5/5-ST-3,81 1851067 50 FK-MCP 1,5/5-ST-3,81 1851067 50 FK-MCP 1,5/6-ST-3,81 1851067 50 FK-MCP 1,5/6-ST-3,81 1851065 50 FK-MCP 1,5/6-ST-3,81 1851066 50 FK-MCP 1,5/6-ST-3,81 1851166 50 FK-MCP 1,5/6-ST-3,81 1851066 50 FK-MCP 1,5/6-ST-3,81 1851166 50			Туре	Order No.	Pcs. / Pkt.
3 7.00 FK-MCP 1,5/3-ST-3,5 1939921 50 4 10.50 FK-MCP 1,5/3-ST-3,5 1939934 50 5 14.00 FK-MCP 1,5/5-ST-3,5 1939947 50 6 17.50 FK-MCP 1,5/5-ST-3,5 1939950 50 7 21.00 FK-MCP 1,5/7-ST-3,5 1939960 50 8 24.50 FK-MCP 1,5/8-ST-3,5 1939963 50 9 28.00 FK-MCP 1,5/9-ST-3,5 1939976 50 10 31.50 FK-MCP 1,5/10-ST-3,5 1939989 50 11 35.00 FK-MCP 1,5/11-ST-3,5 1939989 50 12 38.50 FK-MCP 1,5/12-ST-3,5 1939989 50 13 42.00 FK-MCP 1,5/13-ST-3,5 1940004 50 14 45.50 FK-MCP 1,5/13-ST-3,5 1940017 50 16 52.50 FK-MCP 1,5/16-ST-3,5 1940020 50 16 52.50 FK-MCP 1,5/16-ST-3,81 1851041 50 2	No. of pos.		3.5 mm pitch, color: green		
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3 7.62 FK-MCP 1,5/3-ST-3,81 1851054 50 4 11.43 FK-MCP 1,5/4-ST-3,81 1851067 50 5 15.24 FK-MCP 1,5/5-ST-3,81 1851070 50 6 19.05 FK-MCP 1,5/6-ST-3,81 1851083 50 7 22.86 FK-MCP 1,5/7-ST-3,81 1851096 50 8 26.67 FK-MCP 1,5/8-ST-3,81 1851006 50 9 30.48 FK-MCP 1,5/9-ST-3,81 1851119 50 10 34.29 FK-MCP 1,5/10-ST-3,81 1851122 50 11 38.10 FK-MCP 1,5/10-ST-3,81 1851135 50 12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50			Pitch 3.81 mm, color: green		
4 11.43 FK-MCP 1,5/4-ST-3,81 1851067 50 5 15.24 FK-MCP 1,5/5-ST-3,81 1851070 50 6 19.05 FK-MCP 1,5/6-ST-3,81 1851083 50 7 22.86 FK-MCP 1,5/6-ST-3,81 1851096 50 8 26.67 FK-MCP 1,5/9-ST-3,81 1851106 50 9 30.48 FK-MCP 1,5/9-ST-3,81 1851119 50 10 34.29 FK-MCP 1,5/10-ST-3,81 1851122 50 11 38.10 FK-MCP 1,5/13-ST-3,81 1851135 50 12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	2	3.81	FK-MCP 1,5/ 2-ST-3,81	1851041	50
5 15.24 FK-MCP 1,5/5-ST-3,81 1851070 50 6 19.05 FK-MCP 1,5/6-ST-3,81 1851083 50 7 22.86 FK-MCP 1,5/6-ST-3,81 1851096 50 8 26.67 FK-MCP 1,5/8-ST-3,81 1851106 50 9 30.48 FK-MCP 1,5/9-ST-3,81 1851119 50 10 34.29 FK-MCP 1,5/10-ST-3,81 1851122 50 11 38.10 FK-MCP 1,5/11-ST-3,81 1851135 50 12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	3	7.62	FK-MCP 1,5/ 3-ST-3,81	1851054	50
6 19.05 FK-MCP 1,5/6-ST-3,81 1851083 50 7 22.86 FK-MCP 1,5/7-ST-3,81 1851096 50 8 26.67 FK-MCP 1,5/9-ST-3,81 1851106 50 9 30.48 FK-MCP 1,5/9-ST-3,81 1851110 50 10 34.29 FK-MCP 1,5/10-ST-3,81 1851122 50 11 38.10 FK-MCP 1,5/11-ST-3,81 1851135 50 12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851151 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851157 50	4	11.43	FK-MCP 1,5/ 4-ST-3,81	1851067	50
7 22.86 FK-MCP 1,5/7-ST-3,81 1851096 50 8 26.67 FK-MCP 1,5/8-ST-3,81 1851106 50 9 30.48 FK-MCP 1,5/9-ST-3,81 1851119 50 10 34.29 FK-MCP 1,5/10-ST-3,81 1851122 50 11 38.10 FK-MCP 1,5/11-ST-3,81 1851135 50 12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	5	15.24	FK-MCP 1,5/ 5-ST-3,81	1851070	50
8 26.67 FK-MCP 1,5/8-ST-3,81 1851106 50 9 30.48 FK-MCP 1,5/9-ST-3,81 1851119 50 10 34.29 FK-MCP 1,5/10-ST-3,81 1851122 50 11 38.10 FK-MCP 1,5/11-ST-3,81 1851135 50 12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851167 50	6	19.05	FK-MCP 1,5/ 6-ST-3,81	1851083	50
9 30.48 FK-MCP 1,5/9-ST-3,81 1851119 50 10 34.29 FK-MCP 1,5/10-ST-3,81 1851122 50 11 38.10 FK-MCP 1,5/11-ST-3,81 1851135 50 12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	7	22.86	FK-MCP 1,5/ 7-ST-3,81	1851096	50
10 34.29 FK-MCP 1,5/10-ST-3,81 1851122 50 11 38.10 FK-MCP 1,5/11-ST-3,81 1851135 50 12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	8	26.67	FK-MCP 1,5/ 8-ST-3,81	1851106	50
11 38.10 FK-MCP 1,5/11-ST-3,81 1851135 50 12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	9	30.48	FK-MCP 1,5/ 9-ST-3,81	1851119	50
12 41.91 FK-MCP 1,5/12-ST-3,81 1851148 50 13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	10	34.29	FK-MCP 1,5/10-ST-3,81	1851122	50
13 45.72 FK-MCP 1,5/13-ST-3,81 1851151 50 14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	11	38.10	FK-MCP 1,5/11-ST-3,81	1851135	50
14 49.53 FK-MCP 1,5/14-ST-3,81 1851164 50 15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	12	41.91	FK-MCP 1,5/12-ST-3,81	1851148	50
15 53.34 FK-MCP 1,5/15-ST-3,81 1851177 50	13	45.72	FK-MCP 1,5/13-ST-3,81	1851151	50
7,000 0	14	49.53	FK-MCP 1,5/14-ST-3,81	1851164	50
16 57.15 FK-MCP 1,5/16-ST-3,81 1851180 50	15	53.34	FK-MCP 1,5/15-ST-3,81	1851177	50
	16	57.15	FK-MCP 1,5/16-ST-3,81	1851180	50

Inflammability class according to UL 94



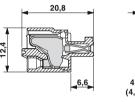


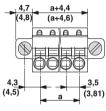
With screw flange

With Lock & Release system

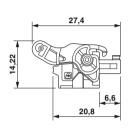
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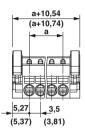
Dimensional drawing





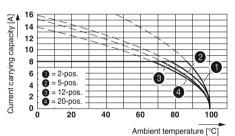
Dimensional drawing





Representative derating curve

Type: FK-MCP 1,5/...-ST-3,81 with MC 1,5/...-G-3,81



Ordering da	ita	
Туре	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: green		
FK-MCP 1,5/ 2-STF-3,5	1940091	50
FK-MCP 1,5/ 3-STF-3,5	1940101	50
FK-MCP 1,5/ 4-STF-3,5	1940114	50
FK-MCP 1,5/ 5-STF-3,5	1940127	50
FK-MCP 1,5/ 6-STF-3,5	1940130	50
FK-MCP 1,5/ 7-STF-3,5	1940143	50
FK-MCP 1,5/ 8-STF-3,5	1940156	50
FK-MCP 1,5/ 9-STF-3,5	1940169	50
FK-MCP 1,5/10-STF-3,5	1940172	50
FK-MCP 1,5/11-STF-3,5	1940185	50
FK-MCP 1,5/12-STF-3,5	1940198	50
FK-MCP 1,5/13-STF-3,5	1940208	50
FK-MCP 1,5/14-STF-3,5	1940211	50
FK-MCP 1,5/15-STF-3,5	1940224	50
FK-MCP 1,5/16-STF-3,5	1940237	50
Pitch 3.81 mm, color: green		
FK-MCP 1,5/ 2-STF-3,81	1851232	50
FK-MCP 1,5/ 3-STF-3,81	1851245	50
FK-MCP 1,5/ 4-STF-3,81	1851258	50
FK-MCP 1,5/ 5-STF-3,81	1851261	50
FK-MCP 1,5/ 6-STF-3,81	1851274	50
FK-MCP 1,5/ 7-STF-3,81	1851287	50
FK-MCP 1,5/ 8-STF-3,81	1851290	50
FK-MCP 1,5/ 9-STF-3,81	1851300	50
FK-MCP 1,5/10-STF-3,81	1851313	50
FK-MCP 1,5/11-STF-3,81	1851326	50
FK-MCP 1,5/12-STF-3,81	1851339	50
FK-MCP 1,5/13-STF-3,81	1851342	50
FK-MCP 1,5/14-STF-3,81	1851355	50

1851368

1851371

50

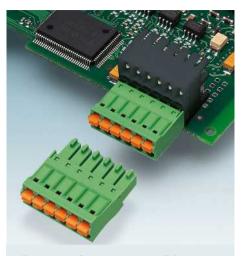
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FK-MCP 1,5/15-STF-3,81

FK-MCP 1,5/16-STF-3,81

Ordering da	ta			
Туре	Order No.	Pcs. / Pkt.		
3.5 mm pitch, color: green				
FK-MCP 1,5/ 2-ST-3,5-LR	1817233	50		
FK-MCP 1,5/ 3-ST-3,5-LR	1817246	50		
FK-MCP 1,5/ 4-ST-3,5-LR	1817259	50		
FK-MCP 1,5/ 5-ST-3,5-LR	1817262	50		
FK-MCP 1,5/ 6-ST-3,5-LR	1817275	50		
FK-MCP 1,5/ 7-ST-3,5-LR	1817288	50		
FK-MCP 1,5/ 8-ST-3,5-LR	1817291	50		
FK-MCP 1,5/ 9-ST-3,5-LR	1817301	50		
FK-MCP 1,5/10-ST-3,5-LR	1817314	50		
FK-MCP 1,5/11-ST-3,5-LR	1817327	50		
FK-MCP 1,5/12-ST-3,5-LR	1817330	50		
FK-MCP 1,5/13-ST-3,5-LR	1817343	50		
FK-MCP 1,5/14-ST-3,5-LR	1817356	50		
FK-MCP 1,5/15-ST-3,5-LR	1817369	50		
FK-MCP 1,5/16-ST-3,5-LR	1817372	50		
Pitch 3.81 mm, color: green				
FK-MCP 1,5/ 2-ST-3,81-LR	1817424	50		
FK-MCP 1,5/ 3-ST-3,81-LR	1817437	50		
FK-MCP 1,5/ 4-ST-3,81-LR	1817440	50		
FK-MCP 1,5/ 5-ST-3,81-LR	1817453	50		
FK-MCP 1,5/ 6-ST-3,81-LR	1817466	50		
FK-MCP 1,5/ 7-ST-3,81-LR	1817479	50		
FK-MCP 1,5/ 8-ST-3,81-LR	1817482	50		
FK-MCP 1,5/ 9-ST-3,81-LR	1817495	50		
FK-MCP 1,5/10-ST-3,81-LR	1817505	50		
FK-MCP 1,5/11-ST-3,81-LR	1817518	50		
FK-MCP 1,5/12-ST-3,81-LR	1817521	50		
FK-MCP 1,5/13-ST-3,81-LR	1817534	50		
FK-MCP 1,5/14-ST-3,81-LR	1817547	50		
FK-MCP 1,5/15-ST-3,81-LR	1817550	50		
FK-MCP 1,5/16-ST-3,81-LR	1817563	50		

Plug with push-in spring connection



- Extremely flat design, only 7.8 mm
- Different combination options with all MC 1,5 headers with a 3.5 mm pitch
- Maximum contact and packaging density in combination with double-level MCDN(V) 1,5 headers
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Touch connection for voltage testing using a 1 mm Ø test pin
- Versions with and without a screw flange or with a self-locking flange

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

For larger numbers of positions up to 20-pos., visit www.phoenixcontact.net/products

The maximum torque for the screw flange is 0.3 Nm.

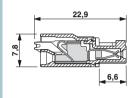
1) Please observe the derating curves. Derating curves of further combination options on request.

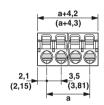


Plug with flat design

PLus 🕑

Dimensional drawing





Note derating curves

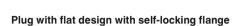
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
4 4	Marker cards SK 3,5/2,8	797	
<u> </u>	Screwdriver SZS 0,4 x 2,5 Order No. 1205037		
	Ferrules with and without plastic sleeve	834	
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		

Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]		81) / 1.5	
Rated insulation voltage for pollution degree 2	[V]		160	
Pin I			0 = / 0 0 4	
Pitch	[mm]		3.5 / 3.81	
Connection capacity	0			
	m ²] / [mm ²] / AWG		/ 0.2 - 1.5	
Stranded with ferrules without plastic sleeve	[mm ²]		0.25 - 1.5	
Stranded with ferrules with plastic sleeve	[mm ²]		0.25 - 0.75	5
Multi-conductor connection capacity (two conductors with the	e same cross section)			
Solid / stranded	[mm ²]		-/-	
Stranded with ferrules without plastic sleeve	[mm ²]		-	
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		-	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11/2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	150	-	150
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	24 - 16	-	24 - 16
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]		10	
Type of insulation material / insulation material gr	roup		PA/I	
Inflammability class according to UL 94			V0	

		Ordering dat	ta	
		Type	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	3.5 mm pitch, color: green		
2	3.50	FMC 1,5/ 2-ST-3,5	1952267	50
3	7.00	FMC 1,5/ 3-ST-3,5	1952270	50
4	10.50	FMC 1,5/ 4-ST-3,5	1952283	50
5	14.00	FMC 1,5/ 5-ST-3,5	1952296	50
6	17.50	FMC 1,5/ 6-ST-3,5	1952306	50
7	21.00	FMC 1,5/ 7-ST-3,5	1952319	50
8	24.50	FMC 1,5/ 8-ST-3,5	1952322	50
9	28.00	FMC 1,5/ 9-ST-3,5	1952335	50
10	31.50	FMC 1,5/10-ST-3,5	1952348	50
11	35.00	FMC 1,5/11-ST-3,5	1952351	50
12	38.50	FMC 1,5/12-ST-3,5	1952364	50
13	42.00	FMC 1,5/13-ST-3,5	1952377	50
14	45.50	FMC 1,5/14-ST-3,5	1952380	50
15	49.00	FMC 1,5/15-ST-3,5	1952393	50
16	52.50	FMC 1,5/16-ST-3,5	1952403	50
		Pitch 3.81 mm, color: green		
2	3.81	FMC 1,5/ 2-ST-3,81	1745894	50
3	7.62	FMC 1,5/ 3-ST-3,81	1745904	50
4	11.43	FMC 1,5/ 4-ST-3,81	1745917	50
5	15.24	FMC 1,5/ 5-ST-3,81	1745920	50
6	19.05	FMC 1,5/ 6-ST-3,81	1748011	50
7	22.86	FMC 1,5/ 7-ST-3,81	1748024	50
8	26.67	FMC 1,5/ 8-ST-3,81	1748037	50
9	30.48	FMC 1,5/ 9-ST-3,81	1748040	50
10	34.29	FMC 1,5/10-ST-3,81	1748053	50
11	38.10	FMC 1,5/11-ST-3,81	1748066	50
12	41.91	FMC 1,5/12-ST-3,81	1748079	50
13	44.72	FMC 1,5/13-ST-3,81	1748082	50
14	48.53	FMC 1,5/14-ST-3,81	1748095	50
15	52.34	FMC 1,5/15-ST-3,81	1748105	50
16	56.15	FMC 1,5/16-ST-3,81	1748118	50







Plug with flat design with screw flange



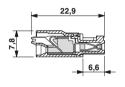
Double-row plug with flat design

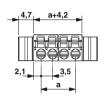
91 US 🕑 **Dimensional drawing**

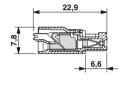
91 us 🕑

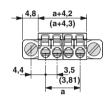
PLus 🕑

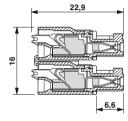
Dimensional drawing Dimensional drawing

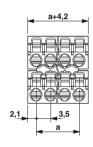








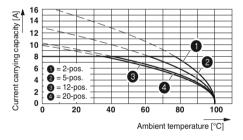


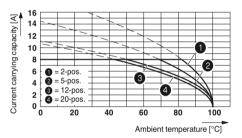


Representative derating curves of the above-mentioned plugs

Type: FMC 1,5/...-ST-3,5 with MCDN 1,5/...-G1-3,5 P26THR

Typ:FMC 1,5/...-ST-3,5 with MCDNV 1,5/...-G1-3,5 P26THR





Ordering data

Ordering	data	
Туре	Order No.	Pcs. / Pkt
3.5 mm pitch, color: green		
FMC 1,5/ 2-ST-3,5-RF	1952021	50
FMC 1,5/ 3-ST-3,5-RF	1952034	50
FMC 1,5/ 4-ST-3,5-RF	1952047	50
FMC 1,5/ 5-ST-3,5-RF	1952050	50
FMC 1,5/ 6-ST-3,5-RF	1952063	50
FMC 1,5/ 7-ST-3,5-RF	1952076	50
FMC 1,5/ 8-ST-3,5-RF	1952089	50
FMC 1,5/ 9-ST-3,5-RF	1952092	50
FMC 1,5/10-ST-3,5-RF	1952102	50
FMC 1,5/11-ST-3,5-RF	1952115	50
FMC 1,5/12-ST-3,5-RF	1952128	50
FMC 1,5/13-ST-3,5-RF	1952131	50
FMC 1,5/14-ST-3,5-RF	1952144	50
FMC 1,5/15-ST-3,5-RF	1952157	50
FMC 1,5/16-ST-3,5-RF	1952160	50

T	O	Dec / Dist
Туре	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: green		
FMC 4 F/O STF 2 F	1966091	50
FMC 1,5/ 2-STF-3,5		
FMC 1,5/ 3-STF-3,5	1966101	50
FMC 1,5/ 4-STF-3,5	1966114	50
FMC 1,5/ 5-STF-3,5	1966127	50
FMC 1,5/ 6-STF-3,5	1966130	50
FMC 1,5/ 7-STF-3,5	1966143	50
FMC 1,5/ 8-STF-3,5	1966156	50
FMC 1,5/ 9-STF-3,5	1966169	50
FMC 1,5/10-STF-3,5	1966172	50
FMC 1,5/11-STF-3,5	1966185	50
FMC 1,5/12-STF-3,5	1966198	50
FMC 1,5/13-STF-3,5	1966208	50
FMC 1,5/14-STF-3,5	1966211	50
FMC 1,5/15-STF-3,5	1966224	50
FMC 1,5/16-STF-3,5	1966237	50
Pitch 3.81 mm, color: green		
FMC 1,5/ 2-STF-3,81	1748354	50
FMC 1,5/ 3-STF-3,81	1748367	50
FMC 1,5/ 4-STF-3,81	1748370	50
FMC 1,5/ 5-STF-3,81	1748383	50
FMC 1,5/ 6-STF-3,81	1748396	50
FMC 1,5/ 7-STF-3,81	1748406	50
FMC 1,5/ 8-STF-3,81	1748419	50
FMC 1,5/ 9-STF-3,81	1748422	50
FMC 1,5/10-STF-3,81	1748435	50
FMC 1,5/11-STF-3,81	1748448	50
FMC 1,5/12-STF-3,81	1748451	50
FMC 1,5/13-STF-3,81	1748464	50
FMC 1,5/14-STF-3,81	1748477	50
FMC 1,5/15-STF-3,81	1748480	50

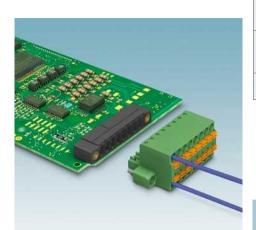
Ordering	data	
Туре	Order No.	Pcs. / Pkt
3.5 mm pitch, color: green		
FMCD 1,5/ 3-ST-3,5	1738814	50
FMCD 1,5/ 4-ST-3,5	1738827	50
FMCD 1,5/5-ST-3,5	1738830	50
FMCD 1,5/6-ST-3,5	1738843	50
FMCD 1,5/7-ST-3,5	1738856	50
FMCD 1,5/8-ST-3,5	1738869	50
FMCD 1,5/ 9-ST-3,5	1738872	50
FMCD 1,5/10-ST-3,5	1738885	50
FMCD 1,5/11-ST-3,5	1738898	50
FMCD 1,5/12-ST-3,5	1738908	50
FMCD 1,5/13-ST-3,5	1738911	50
FMCD 1,5/14-ST-3,5	1738924	50
FMCD 1,5/15-ST-3,5	1738937	50
FMCD 1,5/16-ST-3,5	1738940	50

1748493

50

FMC 1,5/16-STF-3,81

Plug with push-in spring connection



- Very compact front TWIN connection for 1.5 mm²
- Signal distribution up to 8 A directly on device
- Fast conductor connection, thanks to push-in spring connection
- Two connections per position
- Touch connection for voltage testing using a 1 mm Ø test pin
- Versions with and without a screw flange

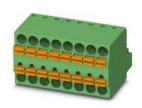
Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.



With two connections per position

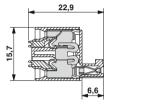
Dimensional drawing

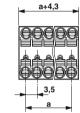
PLus 🕑

Accessories For all ty

1212034

pes	Туре	Page	
7	Marker cards SK 3,5/2,8	797	
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037		1
	Ferrules with and without plastic sleeve	834	
	Crimping pliers for 0.25 to 6 mm ²		
	CRIMPFOX 6		De





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram

lechnical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	

	8/15	
	8 / 1.5 160	
	100	
	3.5	
	0.0	
02-15	/ 0.2 - 1.5 /	24 - 16
0.2 1.0	0.25 - 1.5	<u>_</u>
	0.25 - 0.75	
	0.23 - 0.73	
	- / -	
	-/-	
	-	
	-	
III / O	III. / O	11.70
III / 3	111/2	11/2
160	160	320
2.5	2.5	2.5
В	С	D
300	-	-
8	- - C	- - D
24 - 16	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	10	
	PA/I	
	V0	

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
10	31.50

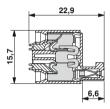
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
TFMC 1,5/ 2-ST-3,5	1772618	50	
TFMC 1,5/ 3-ST-3,5	1772621	50	
TFMC 1,5/ 4-ST-3,5	1772634	50	
TFMC 1,5/ 5-ST-3,5	1772647	50	
TFMC 1,5/ 6-ST-3,5	1772650	50	
TFMC 1,5/ 7-ST-3,5	1772663	50	
TFMC 1,5/ 8-ST-3,5	1772676	50	
TFMC 1,5/ 9-ST-3,5	1772689	50	
TFMC 1,5/10-ST-3,5	1772692	50	

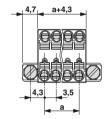


With screw flange

D 20 LP2

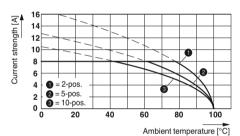
Dimensional drawing





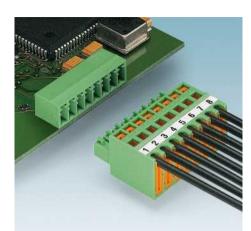
Representative derating curve

Type: TFMC 1,5/...-ST-3,5 with MCV 1,5/...-G-3,5



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
TFMC 1,5/ 2-STF-3,5	1772702	50	
TFMC 1,5/ 3-STF-3,5	1772715	50	
TFMC 1,5/ 4-STF-3,5	1772728	50	
TFMC 1,5/ 5-STF-3,5	1772731	50	
TFMC 1,5/ 6-STF-3,5	1772744	50	
TFMC 1,5/ 7-STF-3,5	1772757	50	
TFMC 1,5/ 8-STF-3,5	1772760	50	
TFMC 1,5/ 9-STF-3,5	1772773	50	
TFMC 1,5/10-STF-3,5	1772786	50	

Plug with displacement connection



- Reduced wiring time since pretreatment of the conductor is no longer necessary
- Stranded conductors of 0.34 to 0.5 mm² with PVC or PE insulation
- Connection as per EN 60352-4
- Integrated 1.2 mm Ø test connection
- Versions with and without a screw
- User notes and recommendations for the insulation displacement technology can be found on page 22

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



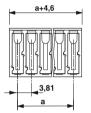
Plug with displacement connection

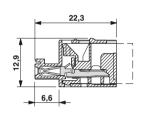
Accessories For all types Туре Page Marker cards 797 SK 3.81/2.8

Screwdriver SZS 0,4 X 2,0 Order No. 1205202

CB CB

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 0.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	,
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	·

	61) / 0.5	
	200	
	3.81	
-/0.	34 - 0.5 / 22	- 20
	-	
	-	
	,	
	-/-	
	-	
	-	
III / O	III / O	11.70
200	III / 2 200	II / 2 400
4	4	400
В	C	D
300	300	-
6	6	
24 - 20	24 - 20	-
В	C	D
		-
	-	-
-	-	-
	PA/I	
	V0	

		Type
No. of pos.	Dim. a [mm]	Pitch 3.81 i
2	3.81	QC 0,5/ 2-S
3	7.62	QC 0,5/ 3-S
4	11.43	QC 0,5/ 4-S
5	15.24	QC 0,5/ 5-S
6	19.05	QC 0,5/ 6-S
7	22.86	QC 0,5/7-S
8	26.67	QC 0,5/8-S
9	30.48	QC 0,5/ 9-S
10	34.29	QC 0,5/10-9
11	38.10	QC 0,5/11-9
12	41.91	QC 0,5/12-9
13	45.72	QC 0,5/13-9
14	49.53	QC 0,5/14-9
15	53.34	QC 0,5/15-9
16	57.15	QC 0,5/16-9

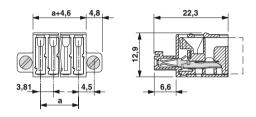
Ordering data			
Order No.	Pcs. / Pkt.		
1897393	50		
1897403	50		
1897416	50		
1897429	50		
1897432	50		
1897445	50		
1897458	50		
1897461	50		
1897474	50		
1897487	50		
1897490	50		
1897500	50		
1897513	50		
1897526	50		
1897539	50		
	1897393 1897403 1897416 1897429 1897432 1897445 1897458 1897461 1897474 1897490 1897500 1897500 1897513		



With screw flange

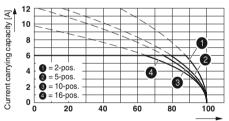
CB CB scheme

Dimensional drawing



Representative derating curve

Type: QC 0,5/...-ST-3,81 with MC 1,5/...-G-3,81



Ambient temperature [°C]
-----------------------	-----

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.81 mm, color: green				
QC 0,5/ 2-STF-3,81	1897542	50		
QC 0,5/ 3-STF-3,81	1897555	50		
QC 0,5/ 4-STF-3,81	1897568	50		
QC 0,5/ 5-STF-3,81	1897571	50		
QC 0,5/ 6-STF-3,81	1897584	50		
QC 0,5/ 7-STF-3,81	1897597	50		
QC 0,5/ 8-STF-3,81	1897607	50		
QC 0,5/ 9-STF-3,81	1897610	50		
QC 0,5/10-STF-3,81	1897623	50		
QC 0,5/11-STF-3,81	1897636	50		
QC 0,5/12-STF-3,81	1897649	50		
QC 0,5/13-STF-3,81	1897652	50		
QC 0,5/14-STF-3,81	1897665	50		
QC 0,5/15-STF-3,81	1897678	50		
QC 0,5/16-STF-3,81	1897681	50		

Connectors with crimp connection



- Flat design of the MCC 1 plug range
- Versions with and without a screw
- With snap-lock option for pullout aid
- Can be combined with MC 1,5 base strips and IMC 1,5 plugs
- Two different crimp contacts can be used:

MCC-MT 0,2 -0,35

- for conductor cross sections of 0.2 to 0.34 mm² (AWG 24-22) and currents of 4 to 5 A

MCC-MT 0,5-1,0

- for conductor cross sections of 0.5 to 1.0 mm² (AWG 20-18) and currents of 6 to 8 A

Technical data

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

For larger numbers of positions up to 20-pos. and additional technical data, visit **www.phoenixcontact.com**.

The maximum torque for the screw flange is 0.3 Nm.

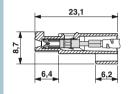
1) Please observe the derating curves. Derating curves of further combination options on request.

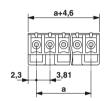


Plugs with crimp connection

P 20 LP 3

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09

Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1 mm² Reduction factor = 0.8

Number of positions = see diagram

Accessories			
For all types	Туре	Page	
	Module socket contact MCC-MT	827	
	Pullout aid STZPCC 4-7,62	828	
Å	Crimping pliers for 0.14 to 1.5 mm ² CRIMPFOX-1,6-ER- 1,50-GH Order No. 1772793		
	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504		

recillical data	•
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wi	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	re [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation materi	al group
Inflammability class according to UL 94	

	81) / 1	
	160	
	3.81	
-/C	.2 - 1 / 24	- 18
	-	
	-	
	-/-	
	-	
	-	
III/3	III/2	11/2
160	160	320
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
20 - 18		20 - 18
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	

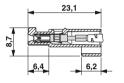
		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 3.81 mm, color: green		
2	3.81	MCC 1/ 2-STZ-3,81	1852176	50
3	7.62	MCC 1/ 3-STZ-3,81	1852189	50
4	11.43	MCC 1/ 4-STZ-3,81	1852192	50
5	15.24	MCC 1/ 5-STZ-3,81	1852202	50
6	19.05	MCC 1/ 6-STZ-3,81	1852215	50
7	22.86	MCC 1/ 7-STZ-3,81	1852228	50
8	26.67	MCC 1/ 8-STZ-3,81	1852231	50
9	30.48	MCC 1/ 9-STZ-3,81	1852244	50
10	34.29	MCC 1/10-STZ-3,81	1852257	50
11	38.10	MCC 1/11-STZ-3,81	1852260	50
12	41.91	MCC 1/12-STZ-3,81	1852273	50
13	45.72	MCC 1/13-STZ-3,81	1852286	50
14	49.53	MCC 1/14-STZ-3,81	1852299	50
15	53.34	MCC 1/15-STZ-3,81	1852309	50
16	57.15	MCC 1/16-STZ-3,81	1852312	50

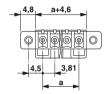


With screw flange



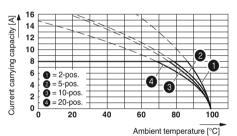
Dimensional drawing





Representative derating curve

Type: MCC 1/...-ST-3,81 with MC 1,5/...-G-3,81



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: green			
MCC 1/ 2-STZF-3,81	1852367	50	
MCC 1/ 3-STZF-3,81	1852370	50	
MCC 1/ 4-STZF-3,81	1852383	50	
MCC 1/ 5-STZF-3,81	1852396	50	
MCC 1/ 6-STZF-3,81	1852406	50	
MCC 1/ 7-STZF-3,81	1852419	50	
MCC 1/ 8-STZF-3,81	1852422	50	
MCC 1/ 9-STZF-3,81	1852435	50	
MCC 1/10-STZF-3,81	1852448	50	
MCC 1/11-STZF-3,81	1852451	50	
MCC 1/12-STZF-3,81	1852464	50	
MCC 1/13-STZF-3,81	1852477	50	
MCC 1/14-STZF-3,81	1852480	50	
MCC 1/15-STZF-3,81	1852493	50	
MCC 1/16-STZF-3,81	1852503	50	

Single-level header for reflow process-



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- Short 1.4 mm pin, no overhang in 1.6 mm PCBs for two-sided mounting
- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- 330 mm roll diameter
- Tape width corresponds to order designation, e.g., R32 = 32 mm tape width
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

 $\mbox{CP-MSTB}$ may only be used after reflow soldering. $\mbox{CP-MSTB}$ NAT HT may also be used prior to reflow soldering.

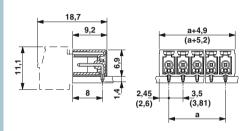
Pick and place pads for taped THR articles usually protrude be-yond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

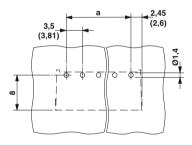


Pin length 1.4 mm, taped headers. plug-in direction parallel to the PCB

P 20 LP 3

Dimensional drawing





Accessories			
For all types	Туре	Page	
*	Coding profile CP-MSTB Order No. 1734634	38	
a a	Marker cards SK 3,81/2,8	797	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
<u> </u>	

	0	
	8	
	160	
	3.5	
	0.0	
III/3	III/2	11/2
160	160	250
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	LCP / IIIa	
	V0	
1.4	/ 0,8 x 0,8 ı	mm

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 3.5 mm, color: Black		
2	3.50	MC 1,5/ 2-G-3,5 P14 THRR32	1788958	470
3	7.00	MC 1,5/ 3-G-3,5 P14 THRR32	1788974	470
4	10.50	MC 1,5/ 4-G-3,5 P14 THRR32	1788990	470
5	14.00	MC 1,5/ 5-G-3,5 P14 THRR56	1789012	470
6	17.50	MC 1,5/ 6-G-3,5 P14 THRR56	1789038	470
7	21.00	MC 1,5/ 7-G-3,5 P14 THRR56	1789054	470
8	24.50	MC 1,5/ 8-G-3,5 P14 THRR56	1789070	470
9	28.00	MC 1,5/ 9-G-3,5 P14 THRR56	1789096	470
10	31.50	MC 1,5/10-G-3,5 P14 THRR56	1789119	470
11	35.00	MC 1,5/11-G-3,5 P14 THRR56	1789135	470
12	38.50	MC 1,5/12-G-3,5 P14 THRR72	1789151	380
		3.81 mm pitch, color: Black		
2	3.81	MC 1,5/ 2-G-3,81 P14 THRR32	1722095	470
3	7.62	MC 1,5/ 3-G-3,81 P14 THRR32	1722105	470
4	11.43	MC 1,5/ 4-G-3,81 P14 THRR32	1722118	470
5	15.24	MC 1,5/ 5-G-3,81 P14 THRR56	1702662	470
6	19.05	MC 1,5/ 6-G-3,81 P14 THRR56	1702663	470
7	22.86	MC 1,5/ 7-G-3,81 P14 THRR56	1702664	470
8	26.67	MC 1,5/ 8-G-3,81 P14 THRR56	1702665	470
9	30.48	MC 1,5/ 9-G-3,81 P14 THRR56	1702666	470
10	34.29	MC 1,5/10-G-3,81 P14 THRR56	1702667	470
11	38.10	MC 1,5/11-G-3,81 P14 THRR56	1702668	470
12	41.91	MC 1,5/12-G-3,81 P14 THRR72	1702669	380



Pin length 1.4 mm, with threaded flange, taped headers, plug-in direction parallel to the PCB



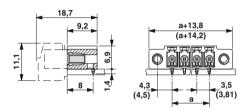
1.4 mm pin length, taped headers, plug-in direction vertical to the PCB



1.4 mm pin length, with threaded flange, taped headers, plug-in direction vertical to the PCB

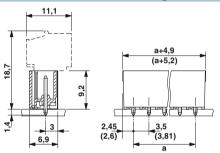
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Dimensional drawing

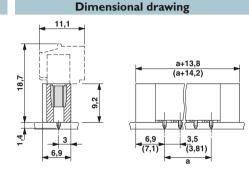


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Dimensional drawing



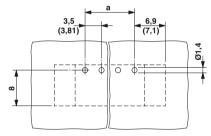
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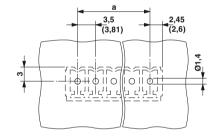


Drilling diagram

Drilling diagram



Ordering data				
Туре	Pcs. / Pkt.			
Pitch 3.5 mm, color: Black				
MC 1,5/ 2-GF-3,5 P14 THRR32	1789614	470		
MC 1,5/ 3-GF-3,5 P14 THRR56	1789630	470		
MC 1,5/ 4-GF-3,5 P14 THRR56	1789656	470		
MC 1,5/ 5-GF-3,5 P14 THRR56	1789672	470		
MC 1,5/ 6-GF-3,5 P14 THRR56	1789698	470		
MC 1,5/ 7-GF-3,5 P14 THRR56	1789711	470		
MC 1,5/ 8-GF-3,5 P14 THRR56	1789737	470		
MC 1,5/ 9-GF-3,5 P14 THRR72	1789753	470		
MC 1,5/10-GF-3,5 P14 THRR72	1789779	380		
MC 1,5/11-GF-3,5 P14 THRR72	1789795	380		
MC 1,5/12-GF-3,5 P14 THRR72	1789818	380		
3.81 mm pitch, color: Black				
MC 1,5/ 2-GF-3,81 P14 THRR32	1782132	470		
MC 1,5/ 3-GF-3,81 P14 THRR56	1782145	470		
MC 1,5/ 4-GF-3,81 P14 THRR56	1782158	470		
MC 1,5/ 5-GF-3,81 P14 THRR56	1782161	470		
MC 1,5/ 6-GF-3,81 P14 THRR56	1782174	470		
MC 1,5/ 7-GF-3,81 P14 THRR56	1782187	470		
MC 1,5/ 8-GF-3,81 P14 THRR56	1782190	470		
MC 1,5/ 9-GF-3,81 P14 THRR72	1782200	470		
MC 1,5/10-GF-3,81 P14 THRR72	1782213	380		
MC 1,5/11-GF-3,81 P14 THRR72	1782226	380		
MC 1,5/12-GF-3,81 P14 THRR72	1782239	380		



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-G-3,5 P14 THRR32	1780202	200
MCV 1,5/3-G-3,5 P14 THRR32	1780228	200
MCV 1,5/ 4-G-3,5 P14 THRR32	1780244	200
MCV 1,5/ 5-G-3,5 P14 THRR56	1780260	200
MCV 1,5/6-G-3,5 P14 THRR56	1780286	200
MCV 1,5/7-G-3,5 P14 THRR56	1780309	200
MCV 1,5/8-G-3,5 P14 THRR56	1780325	200
MCV 1,5/ 9-G-3,5 P14 THRR56	1780341	200
MCV 1,5/10-G-3,5 P14 THRR56	1780367	200
MCV 1,5/11-G-3,5 P14 THRR56	1780383	200
MCV 1,5/12-G-3,5 P14 THRR72	1780406	180
3.81 mm pitch, color: Black		
MCV 1,5/ 2-G-3,81 P14 THR R32	1755473	200
MCV 1,5/3-G-3,81 P14 THR R32	1728374	200
MCV 1,5/ 4-G-3,81 P14 THR R32	1728387	200
MCV 1,5/ 8-G-3,81 P14 THRR56	1754526	200
MCV 1,5/10-G-3,81 P14 THRR56	1754539	200

	3, <u>5</u> (3,81)	a •	6,9 ► (7,1)	
8				4,1%

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-GF-3,5 P14 THRR32	1779941	200
MCV 1,5/ 3-GF-3,5 P14 THRR56	1779967	200
MCV 1,5/ 4-GF-3,5 P14 THRR56	1779983	200
MCV 1,5/ 5-GF-3,5 P14 THRR56	1780008	200
MCV 1,5/ 6-GF-3,5 P14 THRR56	1780024	200
MCV 1,5/ 7-GF-3,5 P14 THRR56	1780040	200
MCV 1,5/8-GF-3,5 P14 THRR56	1780066	200
MCV 1,5/ 9-GF-3,5 P14 THRR56	1780082	200
MCV 1,5/10-GF-3,5 P14 THRR72	1780105	180
MCV 1,5/11-GF-3,5 P14 THRR72	1780147	180
MCV 1,5/12-GF-3,5 P14 THRR72	1780189	180
MCV 1,5/10-GF-3,81 P14 THRR72	1763931	140

Single-level header for reflow process-



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- Short 2.0 mm pin for reduced overhang in 1.6 mm PCBs
- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- 330 mm roll diameter
- Tape width corresponds to order designation, e.g., R32 = 32 mm tape width
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

 $\hbox{CP-MSTB may only be used after reflow soldering. CP-MSTB NAT}$ HT may also be used prior to reflow soldering

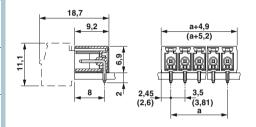
Pick and place pads for taped THR articles usually protrude be-yond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.



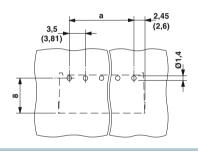
Pin length 2.0 mm, Taped headers, Plug-in direction parallel to the PCB

P 20 LP 3

Dimensional drawing



Drilling diagram



Α	ccessories	
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797

Technical data			
Technical data in accordance to IEC / DIN VDE			
Rated current	[A]		8
Rated insulation voltage for pollution degree 2	[V]		160
Pitch	[mm]		3.5
Insulation coordination	, ,		
Surge voltage category / pollution degree		III/3	III/2
Rated insulation voltage	[V]	160	160
Rated surge voltage	[kV]	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С
Nominal voltage	[V]	300	-
Nominal current	[A]	- 8	-
Connection capacity AWG	AWG	-	-
Approval data (CSA)	Use Group	В	С
Nominal voltage	[V]		-
Nominal current	[A]		-
Connection capacity AWG	AWG	-	-
General data			
Type of insulation material / insulation material group			LCP / III
Inflammability class according to UL 94			V0
Drill hole diameter / pin dimensions	[mm]	1.4	/ 0,8 x 0,

8	
160	
3.5	
III/2	11/2
160	250
2.5	2.5
С	D
-	300
-	8
-	-
С	D
-	-
-	-
-	-
LCP / IIIa	
V0	
/ 0,8 x 0,8 m	nm

11

12

	Ordering da	ta	
	Туре	Order No.	Pcs. / Pkt.
Dim. a [mm]	Pitch 3.5 mm, color: Black		
3.50	MC 1,5/ 2-G-3,5 P20 THRR32	1788738	470
7.00	MC 1,5/ 3-G-3,5 P20 THRR32	1788754	470
10.50	MC 1,5/ 4-G-3,5 P20 THRR32	1788770	470
14.00	MC 1,5/ 5-G-3,5 P20 THRR56	1788796	470
17.50	MC 1,5/ 6-G-3,5 P20 THRR56	1788819	470
21.00	MC 1,5/ 7-G-3,5 P20 THRR56	1788835	470
24.50	MC 1,5/ 8-G-3,5 P20 THRR56	1788851	470
28.00	MC 1,5/ 9-G-3,5 P20 THRR56	1788877	470
31.50	MC 1,5/10-G-3,5 P20 THRR56	1788893	470
35.00	MC 1,5/11-G-3,5 P20 THRR56	1788916	470
38.50	MC 1,5/12-G-3,5 P20 THRR72	1788932	380
	3.81 mm pitch, color: Black		
3.81	MC 1,5/ 2-G-3,81 P20 THRR32	1782572	470
7.62	MC 1,5/ 3-G-3,81 P20 THRR32	1782585	470
11.43	MC 1,5/ 4-G-3,81 P20 THRR32	1782598	470
15.24	MC 1,5/ 5-G-3,81 P20 THRR56	1782608	470
19.05	MC 1,5/ 6-G-3,81 P20 THRR56	1782611	470
22.86	MC 1,5/ 7-G-3,81 P20 THRR56	1782624	470
26.67	MC 1,5/ 8-G-3,81 P20 THRR56	1782637	470
30.48	MC 1,5/ 9-G-3,81 P20 THRR56	1782640	470
34.29	MC 1,5/10-G-3,81 P20 THRR56	1782653	470
38.10	MC 1,5/11-G-3,81 P20 THRR56	1782666	470
41.91	MC 1,5/12-G-3,81 P20 THRR72	1782679	380



Pin length 2.0 mm, with threaded flange, Taped headers. Plug-in direction parallel to the PCB



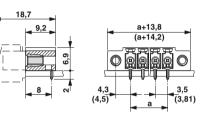
Pin length 2.0 mm, Taped headers. Plug-in direction vertical to the PCB



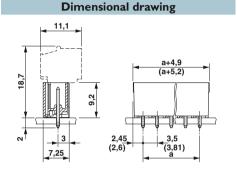
Pin length 2.0 mm, with threaded flange, Taped headers, Plug-in direction vertical to the PCB

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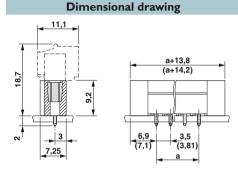
Dimensional drawing



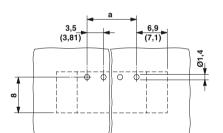
D 20 LP2



P) su **(P**2)



Drilling diagram



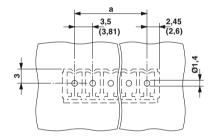
Ordering data Туре Order No. Pcs. / Pkt. Pitch 3.5 mm, color: Black MC 1.5/ 2-GF-3.5 P20 THRR32 1789397 470 MC 1,5/3-GF-3,5 P20 THRR56 1789410 470 MC 1,5/ 4-GF-3,5 P20 THRR56 1789436 470 MC 1,5/5-GF-3,5 P20 THRR56 1789452 470 MC 1.5/ 6-GF-3.5 P20 THRR56 1789478 470 MC 1,5/7-GF-3,5 P20 THRR56 1789494 470 MC 1,5/8-GF-3,5 P20 THRR56 1789517 470 MC 1.5/ 9-GF-3.5 P20 THRR72 1789533 470 MC 1,5/10-GF-3,5 P20 THRR72 1789559 380 MC 1,5/11-GF-3,5 P20 THRR72 1789575 380 MC 1,5/12-GF-3,5 P20 THRR72 1789591 380 3.81 mm pitch, color: Black MC 1,5/ 2-GF-3,81 P20 THRR32 1782022 470 MC 1,5/ 3-GF-3,81 P20 THRR56 1782035 470 MC 1,5/ 4-GF-3,81 P20 THRR56 1782048 470 MC 1,5/ 5-GF-3,81 P20 THRR56 1782051 470 MC 1,5/ 6-GF-3,81 P20 THRR56 1782064 470 MC 1,5/7-GF-3,81 P20 THRR56 1782077 470 MC 1,5/8-GF-3,81 P20 THRR56 1782080 470 MC 1,5/9-GF-3,81 P20 THRR72 470 1782093 MC 1,5/10-GF-3,81 P20 THRR72 1782103 MC 1,5/11-GF-3,81 P20 THRR72 1782116 380

1782129

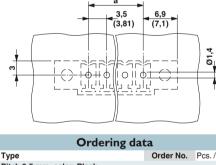
380

MC 1,5/12-GF-3,81 P20 THRR72

Drilling diagram



Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-G-3,5 P20 THRR32	1780888	200
MCV 1,5/ 3-G-3,5 P20 THRR32	1780901	200
MCV 1,5/ 4-G-3,5 P20 THRR32	1780927	200
MCV 1,5/ 5-G-3,5 P20 THRR56	1780943	200
MCV 1,5/ 6-G-3,5 P20 THRR56	1780969	200
MCV 1,5/ 7-G-3,5 P20 THRR56	1780985	200
MCV 1,5/ 8-G-3,5 P20 THRR56	1781007	200
MCV 1,5/ 9-G-3,5 P20 THRR56	1781023	200
MCV 1,5/10-G-3,5 P20 THRR56	1781049	200
MCV 1,5/11-G-3,5 P20 THRR56	1781065	200
MCV 1,5/12-G-3,5 P20 THRR72	1781081	180
MCV 1,5/ 2-G-3,81 P20 THRR32	1825665	200
MCV 1,5/ 3-G-3,81 P20 THRR32	1825678	200
MCV 1,5/ 4-G-3,81 P20 THRR32	1825681	200
MCV 1,5/ 5-G-3,81 P20 THRR56	1825694	200
MCV 1,5/ 6-G-3,81 P20 THRR56	1825704	200
MCV 1,5/7-G-3,81 P20 THRR56	1825717	200
MCV 1,5/8-G-3,81 P20 THRR56	1825720	200
MCV 1,5/ 9-G-3,81 P20 THRR56	1825733	200
MCV 1,5/10-G-3,81 P20 THRR56	1825746	200
MCV 1,5/11-G-3,81 P20 THRR72	1825759	200
MCV 1,5/12-G-3,81 P20 THRR72	1825762	180



Type Pitch 3.5 mm, color: Black MCV 1,5/ 2-GF-3,5 P20 THRR32 MCV 1,5/ 3-GF-3,5 P20 THRR56 MCV 1,5/ 4-GF-3,5 P20 THRR56 MCV 1,5/ 5-GF-3,5 P20 THRR56	1780668 1780684 1780707 1780723 1780749	200 200 200 200 200
MCV 1,5/ 2-GF-3,5 P20 THRR32 MCV 1,5/ 3-GF-3,5 P20 THRR56 MCV 1,5/ 4-GF-3,5 P20 THRR56	1780684 1780707 1780723 1780749	200 200 200
MCV 1,5/ 3-GF-3,5 P20 THRR56 MCV 1,5/ 4-GF-3,5 P20 THRR56	1780684 1780707 1780723 1780749	200 200 200
MCV 1,5/ 4-GF-3,5 P20 THRR56	1780707 1780723 1780749	200
	1780723 1780749	200
MCV 1 E/E CE 2 E D20 TUDDES	1780749	
WCV 1,5/ 5-GF-3,5 F20 1Hhh56		000
MCV 1,5/ 6-GF-3,5 P20 THRR56		200
MCV 1,5/ 7-GF-3,5 P20 THRR56	1780765	200
MCV 1,5/8-GF-3,5 P20 THRR56	1780781	200
MCV 1,5/ 9-GF-3,5 P20 THRR56	1780804	200
MCV 1,5/10-GF-3,5 P20 THRR72	1780820	180
MCV 1,5/11-GF-3,5 P20 THRR72	1780846	180
MCV 1,5/12-GF-3,5 P20 THRR72	1780862	180
MCV 1,5/ 2-GF-3,81 P20 THRR32	1825775	200
MCV 1,5/3-GF-3,81 P20 THRR56	1825788	200
MCV 1,5/ 4-GF-3,81 P20 THRR56	1825791	200
MCV 1,5/ 5-GF-3,81 P20 THRR56	1825801	200
MCV 1,5/ 6-GF-3,81 P20 THRR56	1825814	200
MCV 1,5/7-GF-3,81 P20 THRR56	1825827	200
MCV 1,5/8-GF-3,81 P20 THRR56	1825830	200
MCV 1,5/ 9-GF-3,81 P20 THRR72	1825843	200
MCV 1,5/10-GF-3,81 P20 THRR72	1825856	180
MCV 1,5/11-GF-3,81 P20 THRR72	1825869	180
MCV 1,5/12-GF-3,81 P20 THRR72	1825872	180

Single-level header for reflow process-



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- 2.6 mm pin
- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- 330 mm roll diameter
- Tape width corresponds to order designation, e.g., R32 = 32 mm tape width
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

 $\mbox{CP-MSTB}$ may only be used after reflow soldering. $\mbox{CP-MSTB}$ NAT HT may also be used prior to reflow soldering.

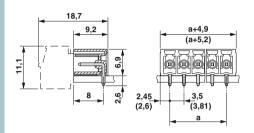
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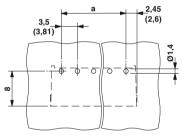


Pin length 2.6 mm, taped headers. plug-in direction parallel to the PCB

P 2u **/P** 3

Dimensional drawing





	Accessories	
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
a o	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	8	
	160	
	3.5 / 3.81	
III/3	III/2	II / 2
160	160	250
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	LCP / IIIa	
	V0	
1.4	/ 0,8 x 0,8 i	mm

		Ordering data			
		Туре	Order No.	Pcs. / Pkt.	
No. of pos.	Dim. a [mm]	Pitch 3.5 mm, color: Black			
2	3.50	MC 1,5/ 2-G-3,5 P26 THRR32	1788518	470	
3	7.00	MC 1,5/ 3-G-3,5 P26 THRR32	1788534	470	
4	10.50	MC 1,5/ 4-G-3,5 P26 THRR32	1788550	470	
5	14.00	MC 1,5/ 5-G-3,5 P26 THRR56	1788576	470	
6	17.50	MC 1,5/ 6-G-3,5 P26 THRR56	1788592	470	
7	21.00	MC 1,5/ 7-G-3,5 P26 THRR56	1788615	470	
8	24.50	MC 1,5/ 8-G-3,5 P26 THRR56	1788631	470	
9	28.00	MC 1,5/ 9-G-3,5 P26 THRR56	1788657	470	
10	31.50	MC 1,5/10-G-3,5 P26 THRR56	1788673	470	
11	35.00	MC 1,5/11-G-3,5 P26 THRR56	1788699	470	
12	38.50	MC 1,5/12-G-3,5 P26 THRR72	1788712	380	
		Pitch 3.5 mm, color: Black			
2	3.81	MC 1,5/ 2-G-3,81 P26 THRR32	1782462	470	
3	7.62	MC 1,5/ 3-G-3,81 P26 THRR32	1782475	470	
4	11.43	MC 1,5/ 4-G-3,81 P26 THRR32	1782488	470	
5	15.24	MC 1,5/ 5-G-3,81 P26 THRR56	1782491	470	
6	19.05	MC 1,5/ 6-G-3,81 P26 THRR56	1782501	470	
7	22.86	MC 1,5/ 7-G-3,81 P26 THRR56	1782514	470	
8	26.67	MC 1,5/ 8-G-3,81 P26 THRR56	1782527	470	
9	30.48	MC 1,5/ 9-G-3,81 P26 THRR56	1782530	470	
10	34.29	MC 1,5/10-G-3,81 P26 THRR56	1782543	470	
11	38.10	MC 1,5/11-G-3,81 P26 THRR56	1782556	470	
12	41.91	MC 1,5/12-G-3,81 P26 THRR72	1782569	380	



Pin length 2.6 mm, with threaded flange, taped headers. plug-in direction parallel to the PCB



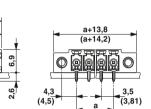
2.6 mm pin length, taped headers, plug-in direction vertical to the PCB



2.6 mm pin length, with threaded flange, taped headers, plug-in direction vertical to the PCB

. SUus 🕑

Dimensional drawing



D 20 LP2

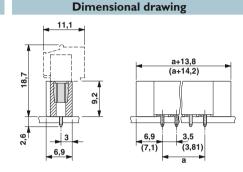
18,7

6,9

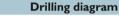
11,1 (a+5,2)

Dimensional drawing





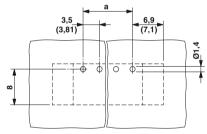
Drilling diagram



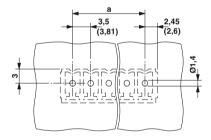
(2,6)

(3,81)

Drilling diagram







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.5 mm, color: Black				
MCV 1,5/ 2-G-3,5 P26 THRR32	1779378	200		
MCV 1,5/ 3-G-3,5 P26 THRR32	1779394	200		
MCV 1,5/ 4-G-3,5 P26 THRR32	1779417	200		
MCV 1,5/ 5-G-3,5 P26 THRR56	1779433	200		
MCV 1,5/ 6-G-3,5 P26 THRR56	1779459	200		
MCV 1,5/ 7-G-3,5 P26 THRR56	1779475	200		
MCV 1,5/ 8-G-3,5 P26 THRR56	1779491	200		
MCV 1,5/ 9-G-3,5 P26 THRR56	1779514	200		
MCV 1,5/10-G-3,5 P26 THRR56	1779530	200		
MCV 1,5/11-G-3,5 P26 THRR56	1779899	200		
MCV 1,5/12-G-3,5 P26 THRR72	1779572	180		
Pitch 3.5 mm, color: Black				
MCV 1,5/ 2-G-3,81 P26 THRR32	1713554	200		
MCV 1,5/ 3-G-3,81 P26 THRR32	1712843	200		
MCV 1,5/ 4-G-3,81 P26 THRR32	1712872	200		
MCV 1,5/ 5-G-3,81 P26 THRR56	1712898	200		
MCV 1,5/ 6-G-3,81 P26 THRR56	1712911	200		
MCV 1,5/7-G-3,81 P26 THRR56	1712937	200		
MCV 1,5/8-G-3,81 P26 THRR56	1712940	200		
MCV 1,5/ 9-G-3,81 P26 THRR56	1713567	200		
MCV 1,5/10-G-3,81 P26 THRR56	1712966	200		
MCV 1,5/11-G-3,81 P26 THRR72	1714003	180		
MCV 1,5/12-G-3,81 P26 THRR72	1712982	200		

	3, <u>5</u> (3,81)	a	6,9 ► (7,1) ►	
8				61,4

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
MCV 1,5/ 2-GF-3,5 P26 THRR32	1779077	200	
MCV 1,5/ 3-GF-3,5 P26 THRR56	1779093	200	
MCV 1,5/ 4-GF-3,5 P26 THRR56	1779116	200	
MCV 1,5/ 5-GF-3,5 P26 THRR56	1779132	200	
MCV 1,5/ 6-GF-3,5 P26 THRR56	1779158	200	
MCV 1,5/ 7-GF-3,5 P26 THRR56	1779174	200	
MCV 1,5/ 8-GF-3,5 P26 THRR56	1779190	200	
MCV 1,5/ 9-GF-3,5 P26 THRR56	1779213	200	
MCV 1,5/10-GF-3,5 P26 THRR72	1779239	180	
MCV 1,5/11-GF-3,5 P26 THRR72	1780121	180	
MCV 1,5/12-GF-3,5 P26 THRR72	1780163	180	
Pitch 3.5 mm, color: Black			
MCV 1,5/ 2-GF-3,81 P26 THRR32	1713347	200	
MCV 1,5/3-GF-3,81 P26 THRR56	1713350	200	
MCV 1,5/ 4-GF-3,81 P26 THRR56	1713363	200	
MCV 1,5/ 5-GF-3,81 P26 THRR56	1713376	200	
MCV 1,5/ 6-GF-3,81 P26 THRR56	1713389	200	
MCV 1,5/ 7-GF-3,81 P26 THRR56	1713392	200	
MCV 1,5/ 8-GF-3,81 P26 THRR56	1713402	200	
MCV 1,5/ 9-GF-3,81 P26 THRR72	1713415	180	
MCV 1,5/10-GF-3,81 P26 THRR72	1713428	200	
MCV 1,5/11-GF-3,81 P26 THRR72	1713431	200	
MCV 1,5/12-GF-3,81 P26 THRR72	1713444	200	

Single-level header for reflow process-



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- Short 1.4 mm pin, no overhang in 1.6 mm PCBs for two-sided mounting
- Box packaging
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

 $\mbox{CP-MSTB}$ may only be used after reflow soldering. $\mbox{CP-MSTB}$ NAT HT may also be used prior to reflow soldering.

Dimensional drawings of the free space for solder paste, the tape, and pick-and-place pads can be found online at www.phoenixcontact.net/products.

Order No.

Marker cards

SK 3,5/2,8 or SK 3,81/2,8

1734634

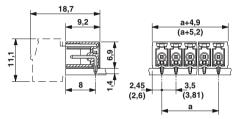


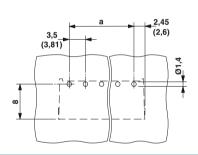
1.4 mm pin length, box-packaged headers, plug-in direction parallel to the PCB

P) 20 /P2

Accessories **Dimensional drawing** For all types Туре Page Coding profile CP-MSTB 38

797





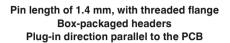
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

		8		
		160		
_				
		3.5		
_	III/3	III/2	11/2	
_	160	160	250	
	2.5	2.5	2.5	
	В	С	D	
	300	-	300	
Ξ	8	-	8	
	-	-	-	
	В	С	D	
_	-	-	-	
	-	-	-	
	-	-	-	
	LCP / IIIa			
Ξ		V0		
Ξ	1.4	/ 0,8 x 0,8 i	mm	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 3.5 mm, color: Black		
2	3.50	MC 1,5/ 2-G-3,5 P14 THR	1788945	50
3	7.00	MC 1,5/ 3-G-3,5 P14 THR	1788961	50
4	10.50	MC 1,5/ 4-G-3,5 P14 THR	1788987	50
5	14.00	MC 1,5/ 5-G-3,5 P14 THR	1789009	50
6	17.50	MC 1,5/ 6-G-3,5 P14 THR	1789025	50
7	21.00	MC 1,5/ 7-G-3,5 P14 THR	1789041	50
8	24.50	MC 1,5/ 8-G-3,5 P14 THR	1789067	50
9	28.00	MC 1,5/ 9-G-3,5 P14 THR	1789083	50
10	31.50	MC 1,5/10-G-3,5 P14 THR	1789106	50
11	35.00	MC 1,5/11-G-3,5 P14 THR	1789122	50
12	38.50	MC 1,5/12-G-3,5 P14 THR	1789148	50
		3.81 mm pitch, color: Black		
2	3.81	MC 1,5/ 2-G-3,81 P14 THR	1782352	100
3	7.62	MC 1,5/ 3-G-3,81 P14 THR	1782365	100
4	11.43	MC 1,5/ 4-G-3,81 P14 THR	1782378	100
5	15.24	MC 1,5/ 5-G-3,81 P14 THR	1782381	50
6	19.05	MC 1,5/ 6-G-3,81 P14 THR	1782394	50
7	22.86	MC 1,5/ 7-G-3,81 P14 THR	1782404	50
8	26.67	MC 1,5/8-G-3,81 P14 THR	1782417	50
9	30.48	MC 1,5/ 9-G-3,81 P14 THR	1782420	50
10	34.29	MC 1,5/10-G-3,81 P14 THR	1782433	50
11	38.10	MC 1,5/11-G-3,81 P14 THR	1782446	50
12	41.91	MC 1,5/12-G-3,81 P14 THR	1782459	50









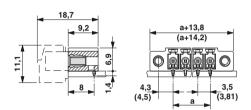
1.4 mm pin length, box-packaged headers, plug-in direction vertical to the PCB



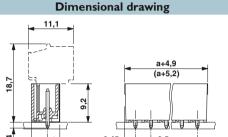
1.4 mm pin length, with threaded flange, box-packaged headers, plug-in direction vertical to the PCB

. SUus 🕑

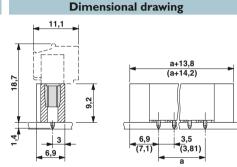
Dimensional drawing



P 20 **1/2** 2



.91us 🕝



Drilling diagram

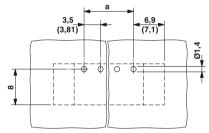




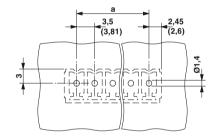
(2,6)

(3,81)

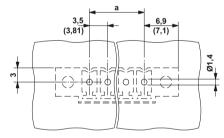
Drilling diagram







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.5 mm, color: Black				
MCV 1,5/ 2-G-3,5 P14 THR	1780192	100		
MCV 1,5/ 3-G-3,5 P14 THR	1780215	100		
MCV 1,5/ 4-G-3,5 P14 THR	1780231	100		
MCV 1,5/ 5-G-3,5 P14 THR	1780257	50		
MCV 1,5/ 6-G-3,5 P14 THR	1780273	50		
MCV 1,5/ 7-G-3,5 P14 THR	1780299	50		
MCV 1,5/ 8-G-3,5 P14 THR	1780312	50		
MCV 1,5/ 9-G-3,5 P14 THR	1780338	50		
MCV 1,5/10-G-3,5 P14 THR	1780354	50		
MCV 1,5/11-G-3,5 P14 THR	1780370	50		
MCV 1,5/12-G-3,5 P14 THR	1780396	50		
3.81 mm pitch, color: Black				
MCV 1,5/ 2-G-3,81 P14 THR	1707007	50		
MCV 1,5/ 3-G-3,81 P14 THR	1707010	50		
MCV 1,5/ 4-G-3,81 P14 THR	1707023	50		
MCV 1,5/ 5-G-3,81 P14 THR	1707036	50		
MCV 1,5/ 6-G-3,81 P14 THR	1707049	50		
MCV 1,5/7-G-3,81 P14 THR	1707052	50		
MCV 1,5/ 8-G-3,81 P14 THR	1707065	50		
MCV 1,5/ 9-G-3,81 P14 THR	1707078	50		
MCV 1,5/10-G-3,81 P14 THR	1707081	50		
MCV 1,5/11-G-3,81 P14 THR	1707094	50		
MCV 1,5/12-G-3,81 P14 THR	1707104	50		



	Ordering date	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	Pitch 3.5 mm, color: Black		
	MCV 1,5/ 2-GF-3,5 P14 THR	1779938	100
	MCV 1,5/ 3-GF-3,5 P14 THR	1779954	100
	MCV 1,5/ 4-GF-3,5 P14 THR	1779970	100
	MCV 1,5/ 5-GF-3,5 P14 THR	1779996	50
	MCV 1,5/ 6-GF-3,5 P14 THR	1780011	50
	MCV 1,5/ 7-GF-3,5 P14 THR	1780037	50
	MCV 1,5/8-GF-3,5 P14 THR	1780053	50
	MCV 1,5/ 9-GF-3,5 P14 THR	1780079	50
_	MCV 1,5/10-GF-3,5 P14 THR	1780095	50
	MCV 1,5/11-GF-3,5 P14 THR	1780134	50
	MCV 1,5/12-GF-3,5 P14 THR	1780176	50
	3.81 mm pitch, color: Black		
	MCV 1,5/ 2-GF-3,81 P14 THR	1707214	50
	MCV 1,5/ 3-GF-3,81 P14 THR	1707227	50
	MCV 1,5/ 4-GF-3,81 P14 THR	1707230	50
	MCV 1,5/ 5-GF-3,81 P14 THR	1707243	50
	MCV 1,5/ 6-GF-3,81 P14 THR	1707256	50
	MCV 1,5/7-GF-3,81 P14 THR	1707269	50
	MCV 1,5/ 8-GF-3,81 P14 THR	1707272	50
	MCV 1,5/ 9-GF-3,81 P14 THR	1707285	50
	MCV 1,5/10-GF-3,81 P14 THR	1707298	50
	MCV 1,5/11-GF-3,81 P14 THR	1707308	50
	MCV 1,5/12-GF-3,81 P14 THR	1707311	50

Single-level header for reflow process-



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- 2.6 mm pin
- Box packaging
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

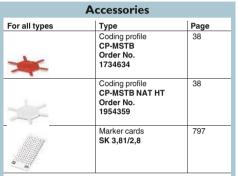
 $\mbox{CP-MSTB}$ may only be used after reflow soldering. $\mbox{CP-MSTB}$ NAT HT may also be used prior to reflow soldering.

Dimensional drawings of the free space for solder paste, the tape, and pick-and-place pads can be found online at www.phoenixcontact.net/products.

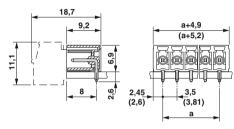


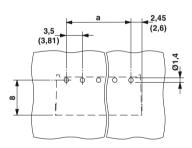
2.6 mm pin length, box-packaged headers, plug-in direction parallel to the PCB

P) 20 /P2



Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	8	
	160	
	3.5 / 3.81	
III. / O	III. / O	11./0
III/3	III/2	11/2
160	160	250
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	LCP / IIIa	
	V0	
1.4	/ 0,8 x 0,8 ı	mm

		Ordering date	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 3.5 mm, color: Black		
2	3.50	MC 1,5/ 2-G-3,5 P26 THR	1788505	50
3	7.00	MC 1,5/ 3-G-3,5 P26 THR	1788521	50
4	10.50	MC 1,5/ 4-G-3,5 P26 THR	1788547	50
5	14.00	MC 1,5/ 5-G-3,5 P26 THR	1788563	50
6	17.50	MC 1,5/ 6-G-3,5 P26 THR	1788589	50
7	21.00	MC 1,5/ 7-G-3,5 P26 THR	1788602	50
8	24.50	MC 1,5/ 8-G-3,5 P26 THR	1788628	50
9	28.00	MC 1,5/ 9-G-3,5 P26 THR	1788644	50
10	31.50	MC 1,5/10-G-3,5 P26 THR	1788660	50
11	35.00	MC 1,5/11-G-3,5 P26 THR	1788686	50
12	38.50	MC 1,5/12-G-3,5 P26 THR	1788709	50
		Pitch 3.5 mm, color: Black		
2	3.81	MC 1,5/ 2-G-3,81 P26 THR	1721986	100
3	7.62	MC 1,5/ 3-G-3,81 P26 THR	1721999	100
4	11.43	MC 1,5/ 4-G-3,81 P26 THR	1722008	100
5	15.24	MC 1,5/ 5-G-3,81 P26 THR	1722011	50
6	19.05	MC 1,5/ 6-G-3,81 P26 THR	1722024	50
7	22.86	MC 1,5/ 7-G-3,81 P26 THR	1722037	50
8	26.67	MC 1,5/ 8-G-3,81 P26 THR	1722040	50
9	30.48	MC 1,5/ 9-G-3,81 P26 THR	1722053	50
10	34.29	MC 1,5/10-G-3,81 P26 THR	1722066	50
11	38.10	MC 1,5/11-G-3,81 P26 THR	1722079	50
12	41.91	MC 1,5/12-G-3,81 P26 THR	1722082	50







Box-packaged headers

Plug-in direction parallel to the PCB



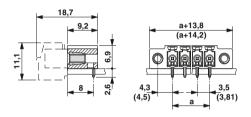
2.6 mm pin length, box-packaged headers, plug-in direction vertical to the PCB



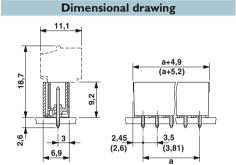
2.6 mm pin length, with threaded flange, box-packaged headers, plug-in direction vertical to the PCB

c**91**0s @

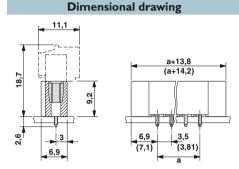
Dimensional drawing



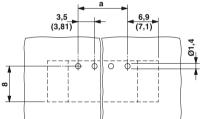




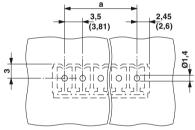
PLus 🕝



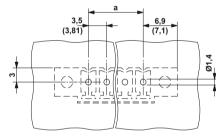
Drilling diagram



Drilling diagram



Drilling diagram



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 3.5 mm, color: Black					
MC 1,5/ 2-GF-3,5 P26 THR	1789164	50			
MC 1,5/ 3-GF-3,5 P26 THR	1789180	50			
MC 1,5/ 4-GF-3,5 P26 THR	1789203	50			
MC 1,5/ 5-GF-3,5 P26 THR	1789229	50			
MC 1,5/ 6-GF-3,5 P26 THR	1789245	50			
MC 1,5/ 7-GF-3,5 P26 THR	1789261	50			
MC 1,5/ 8-GF-3,5 P26 THR	1789287	50			
MC 1,5/ 9-GF-3,5 P26 THR	1789300	50			
MC 1,5/10-GF-3,5 P26 THR	1789326	50			
MC 1,5/11-GF-3,5 P26 THR	1789342	50			
MC 1,5/12-GF-3,5 P26 THR	1789368	50			
3.81 mm pitch, color: Black					
MC 1,5/ 2-GF-3,81 P26 THR	1722150	100			
MC 1,5/ 3-GF-3,81 P26 THR	1722163	100			
MC 1,5/ 4-GF-3,81 P26 THR	1722176	100			
MC 1,5/ 5-GF-3,81 P26 THR	1722189	50			
MC 1,5/ 6-GF-3,81 P26 THR	1722202	50			
MC 1,5/ 7-GF-3,81 P26 THR	1722215	50			
MC 1,5/ 8-GF-3,81 P26 THR	1722228	50			
MC 1,5/ 9-GF-3,81 P26 THR	1722231	50			
MC 1,5/10-GF-3,81 P26 THR	1722244	50			
MC 1,5/11-GF-3,81 P26 THR	1722257	50			
MC 1,5/12-GF-3,81 P26 THR	1722260	50			

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 3.5 mm, color: Black					
MCV 1,5/ 2-G-3,5 P26 THR	1779365	100			
MCV 1,5/ 3-G-3,5 P26 THR	1779381	100			
MCV 1,5/ 4-G-3,5 P26 THR	1779404	100			
MCV 1,5/ 5-G-3,5 P26 THR	1779420	50			
MCV 1,5/ 6-G-3,5 P26 THR	1779446	50			
MCV 1,5/ 7-G-3,5 P26 THR	1779462	50			
MCV 1,5/ 8-G-3,5 P26 THR	1779488	50			
MCV 1,5/ 9-G-3,5 P26 THR	1779501	50			
MCV 1,5/10-G-3,5 P26 THR	1779527	50			
MCV 1,5/11-G-3,5 P26 THR	1779543	50			
MCV 1,5/12-G-3,5 P26 THR	1779569	50			
3.81 mm pitch, color: Black					
MCV 1,5/ 2-G-3,81 P26 THR	1707421	50			
MCV 1,5/ 3-G-3,81 P26 THR	1707434	50			
MCV 1,5/ 4-G-3,81 P26 THR	1707447	50			
MCV 1,5/ 5-G-3,81 P26 THR	1707450	50			
MCV 1,5/ 6-G-3,81 P26 THR	1707463	50			
MCV 1,5/ 7-G-3,81 P26 THR	1707476	50			
MCV 1,5/8-G-3,81 P26 THR	1707489	50			
MCV 1,5/ 9-G-3,81 P26 THR	1707492	50			
MCV 1,5/10-G-3,81 P26 THR	1707502	50			
MCV 1,5/11-G-3,81 P26 THR	1707515	50			
MCV 1,5/12-G-3,81 P26 THR	1707528	50			

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 3.5 mm, color: Black					
MCV 1,5/ 2-GF-3,5 P26 THR	1779064	100			
MCV 1,5/ 3-GF-3,5 P26 THR	1779080	100			
MCV 1,5/ 4-GF-3,5 P26 THR	1779103	100			
MCV 1,5/ 5-GF-3,5 P26 THR	1779129	50			
MCV 1,5/ 6-GF-3,5 P26 THR	1779145	50			
MCV 1,5/7-GF-3,5 P26 THR	1779161	50			
MCV 1,5/ 8-GF-3,5 P26 THR	1779187	50			
MCV 1,5/ 9-GF-3,5 P26 THR	1779200	50			
MCV 1,5/10-GF-3,5 P26 THR	1779226	50			
MCV 1,5/11-GF-3,5 P26 THR	1780118	50			
MCV 1,5/12-GF-3,5 P26 THR	1780150	50			
3.81 mm pitch, color: Black					
MCV 1,5/ 2-GF-3,81 P26 THR	1707638	50			
MCV 1,5/ 3-GF-3,81 P26 THR	1707641	50			
MCV 1,5/ 4-GF-3,81 P26 THR	1707654	50			
MCV 1,5/ 5-GF-3,81 P26 THR	1707667	50			
MCV 1,5/6-GF-3,81 P26 THR	1707670	50			
MCV 1,5/7-GF-3,81 P26 THR	1707683	50			
MCV 1,5/8-GF-3,81 P26 THR	1707696	50			
MCV 1,5/ 9-GF-3,81 P26 THR	1707706	50			
MCV 1,5/10-GF-3,81 P26 THR	1707719	50			
MCV 1,5/11-GF-3,81 P26 THR	1707722	50			
MCV 1,5/12-GF-3,81 P26 THR	1707735	50			

Double-level header for reflow processes



- Application in SMT reflow processes
- THR double-level pin strips with a flat design featuring compact pitches of 3.5 mm and 3.81 mm
- Alternative pin lengths 1.4 mm or 2.6 mm
- Plug-in direction parallel to the PCB
- Without a level offset, for flush installation in the front of the devices
- Versions with engagement noses for locking plugs with self-locking flanges
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products
- Relevant FMC 1,5/...plugs can be found on page 200

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

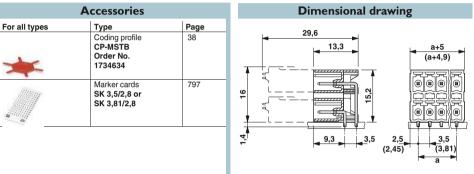
Application notes and suggestions for the THR process can be found on page 27.

CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

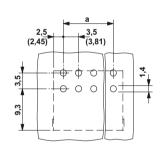


1.4 mm pin length, plug-in direction parallel to the PCB

P) 20 /P2



Drilling diagram



-				
Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current	[A]		8	
Rated insulation voltage for pollution degree 2	[V]		160	
Pitch	[mm]		3.5 / 3.81	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11/2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	150	-	150
Nominal current	[A]	- 8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]		-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group			LCP / Illa	
Inflammability class according to UL 94			V0	

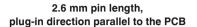
[mm]

1.4 / 0,8 x 0,8 mm

		Ordering dat	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 3.5 mm, color: Black		
2	3.50	MCDN 1,5/ 2-G1-3,5 P14THR	1953907	50
3	7.00	MCDN 1,5/ 3-G1-3,5 P14THR	1953923	50
4	10.50	MCDN 1,5/ 4-G1-3,5 P14THR	1953936	50
5	14.00	MCDN 1,5/ 5-G1-3,5 P14THR	1953949	50
6	17.50	MCDN 1,5/ 6-G1-3,5 P14THR	1953952	50
7	21.00	MCDN 1,5/ 7-G1-3,5 P14THR	1953965	50
8	24.50	MCDN 1,5/ 8-G1-3,5 P14THR	1953978	50
9	28.00	MCDN 1,5/ 9-G1-3,5 P14THR	1953981	50
10	31.50	MCDN 1,5/10-G1-3,5 P14THR	1953994	50
11	35.00	MCDN 1,5/11-G1-3,5 P14THR	1954003	50
12	38.50	MCDN 1,5/12-G1-3,5 P14THR	1954032	50
13	42.00	MCDN 1,5/13-G1-3,5 P14THR	1954045	50
14	45.50	MCDN 1,5/14-G1-3,5 P14THR	1954058	50
15	49.00	MCDN 1,5/15-G1-3,5 P14THR	1954061	50
16	52.50	MCDN 1,5/16-G1-3,5 P14THR	1954074	50
		3.81 mm pitch, color: Black		
2	3.81	MCDN 1,5/ 2-G1-3,81 P14THR	1749337	50
2	7.62	MCDN 1,5/ 3-G1-3,81 P14THR	1749340	50
4	11.43	MCDN 1,5/ 4-G1-3,81 P14THR	1749353	50
5	15.24	MCDN 1,5/ 5-G1-3,81 P14THR	1749366	50
6	19.05	MCDN 1,5/ 6-G1-3,81 P14THR	1749379	50
7	22.86	MCDN 1,5/ 7-G1-3,81 P14THR	1749382	50
8	26.67	MCDN 1,5/ 8-G1-3,81 P14THR	1749395	50
9	30.48	MCDN 1,5/ 9-G1-3,81 P14THR	1749405	50
10	34.29	MCDN 1,5/10-G1-3,81 P14THR	1749418	50
11	38.10	MCDN 1,5/11-G1-3,81 P14THR	1749421	50
12	41.91	MCDN 1,5/12-G1-3,81 P14THR	1749434	50
13	45.72	MCDN 1,5/13-G1-3,81 P14THR	1749447	50
14	49.53	MCDN 1,5/14-G1-3,81 P14THR	1749450	50
15	53.34	MCDN 1,5/15-G1-3,81 P14THR	1749463	50
16	57.15	MCDN 1,5/16-G1-3,81 P14THR	1749476	50
		· · · · · · · · · · · · · · · · · · ·		

Drill hole diameter / pin dimensions





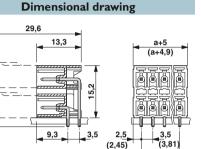


1.4 mm pin length, with engagement noses, plug-in direction parallel to the PCB



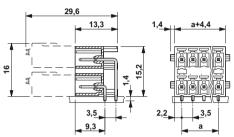
2.6 mm pin length, with engagement noses, plug-in direction parallel to the PCB

91 US 🕑

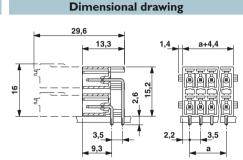




PLus 🕑



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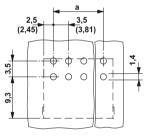


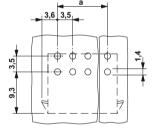
Drilling diagram



Drilling diagram

Drilling diagram





-	3,6	_	a	-	
3,5		F 0	0	0+	4,1

Ordering of	data				
Туре	Order No.	Pcs. / Pkt.			
Pitch 3.5 mm, color: Black					
MCDN 1,5/ 2-G1-3,5 P26THR	1953716	50			
MCDN 1,5/3-G1-3,5 P26THR	1953729	50			
MCDN 1,5/ 4-G1-3,5 P26THR	1953732	50			
MCDN 1,5/ 5-G1-3,5 P26THR	1953745	50			
MCDN 1,5/6-G1-3,5 P26THR	1953758	50			
MCDN 1,5/7-G1-3,5 P26THR	1953761	50			
MCDN 1,5/8-G1-3,5 P26THR	1953774	50			
MCDN 1,5/9-G1-3,5 P26THR	1953787	50			
MCDN 1,5/10-G1-3,5 P26THR	1953790	50			
MCDN 1,5/11-G1-3,5 P26THR	1953800	50			
MCDN 1,5/12-G1-3,5 P26THR	1953813	50			
MCDN 1,5/13-G1-3,5 P26THR	1953826	50			
MCDN 1,5/14-G1-3,5 P26THR	1953839	50			
MCDN 1,5/15-G1-3,5 P26THR	1953842	50			
MCDN 1,5/16-G1-3,5 P26THR	1953855	50			
3.81 mm pitch, color: Black					
MCDN 1,5/ 2-G1-3,81 P26THR	1749528	50			
MCDN 1,5/3-G1-3,81 P26THR	1749531	50			
MCDN 1,5/ 4-G1-3,81 P26THR	1749544	50			
MCDN 1,5/5-G1-3,81 P26THR	1749557	50			
MCDN 1,5/6-G1-3,81 P26THR	1749560	50			
MCDN 1,5/7-G1-3,81 P26THR	1749573	50			
MCDN 1,5/8-G1-3,81 P26THR	1749586	50			
MCDN 1,5/ 9-G1-3,81 P26THR	1749599	50			
MCDN 1,5/10-G1-3,81 P26THR	1749609	50			
MCDN 1,5/11-G1-3,81 P26THR	1749612	50			
MCDN 1,5/12-G1-3,81 P26THR	1749625	50			
MCDN 1,5/13-G1-3,81 P26THR	1749638	50			
MCDN 1,5/14-G1-3,81 P26THR	1749641	50			
MCDN 1,5/15-G1-3,81 P26THR	1749654	50			

1749667

50

MCDN 1,5/16-G1-3,81 P26THR

Ordering date	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDN 1,5/ 2-G1-3,5 RNP14THR	1953208	50
MCDN 1,5/3-G1-3,5 RNP14THR	1953211	50
MCDN 1,5/ 4-G1-3,5 RNP14THR	1953224	50
MCDN 1,5/ 5-G1-3,5 RNP14THR	1953237	50
MCDN 1,5/6-G1-3,5 RNP14THR	1953240	50
MCDN 1,5/ 7-G1-3,5 RNP14THR	1953253	50
MCDN 1,5/8-G1-3,5 RNP14THR	1953266	50
MCDN 1,5/9-G1-3,5 RNP14THR	1953279	50
MCDN 1,5/10-G1-3,5 RNP14THR	1953282	50
MCDN 1,5/11-G1-3,5 RNP14THR	1953295	50
MCDN 1,5/12-G1-3,5 RNP14THR	1953305	50
MCDN 1,5/13-G1-3,5 RNP14THR	1953318	50
MCDN 1,5/14-G1-3,5 RNP14THR	1953321	50
MCDN 1,5/15-G1-3,5 RNP14THR	1953334	50
MCDN 1,5/16-G1-3,5 RNP14THR	1953350	50

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDN 1,5/ 2-G1-3,5 RNP26THR	1953402	50
MCDN 1,5/ 3-G1-3,5 RNP26THR	1953415	50
MCDN 1,5/ 4-G1-3,5 RNP26THR	1953428	50
MCDN 1,5/ 5-G1-3,5 RNP26THR	1953554	50
MCDN 1,5/ 6-G1-3,5 RNP26THR	1953567	50
MCDN 1,5/ 7-G1-3,5 RNP26THR	1953570	50
MCDN 1,5/ 8-G1-3,5 RNP26THR	1953583	50
MCDN 1,5/ 9-G1-3,5 RNP26THR	1953596	50
MCDN 1,5/10-G1-3,5 RNP26THR	1953606	50
MCDN 1,5/11-G1-3,5 RNP26THR	1953619	50
MCDN 1,5/12-G1-3,5 RNP26THR	1953622	50
MCDN 1,5/13-G1-3,5 RNP26THR	1953635	50
MCDN 1,5/14-G1-3,5 RNP26THR	1953648	50
MCDN 1,5/15-G1-3,5 RNP26THR	1953651	50
MCDN 1,5/16-G1-3,5 RNP26THR	1953664	50

Double-level header for reflow processes



- Application in SMT reflow processes
- THR double-level pin strips with a flat design featuring compact pitches of 3.5 mm and 3.81 mm
- Alternative pin lengths 1.4 mm or 2.6 mm
- Plug-in direction vertical to the PCB
- Without a level offset, for flush installation in the front of the devices
- Versions with engagement noses for locking plugs with self-locking flanges
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products
- Relevant FMC 1,5/...connectors can be found on page 200

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

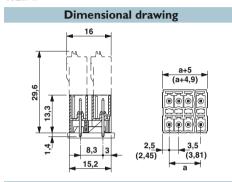
Application notes and suggestions for the THR process can be found on page 27.

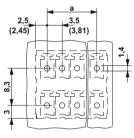
CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.



1.4 mm pin length, plug-in direction vertical to the PCB

P) 20 /P2





Į.	Accessories	
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
	Marker cards SK 3,5/2,8 or SK 3,81/2,8	797

Technical data		
Technical data in accordance to IEC / DIN VDE		
Rated current	[A]	
Rated insulation voltage for pollution degree 2	[V]	
Pitch	[mm]	-
Insulation coordination		
Surge voltage category / pollution degree		III /
Rated insulation voltage	[V]	16
Rated surge voltage	[kV]	2.5
Approval data (UL/CUL)	Use Group	В
Nominal voltage	[V]	15
Nominal current	[A]	8
Connection capacity AWG	AWG	-
Approval data (CSA)	Use Group	В
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	-
General data		
Type of insulation material / insulation material group		
Inflammability class according to UL 94		
Drill hole diameter / pin dimensions	[mm]	

	8	
	200	
	3.5 / 3.81	
3	III/2	II / 2
0 5	200	250
5	2.5	2.5
	С	D
0	-	150
	-	8
	-	-
	С	D
	-	-
	-	-
	-	-
	LCP / Illa	
	V0	
1.4	4 / 0,8 x 0,8 m	m

		Ordering date	ta	
		Туре	Order No.	Pcs. / Pkt.
pos.	Dim. a [mm]	Pitch 3.5 mm, color: Black		
2	3.50	MCDNV 1,5/ 2-G1-3,5 P14THR	1952979	50
3	7.00	MCDNV 1,5/ 3-G1-3,5 P14THR	1952982	50
4	10.50	MCDNV 1,5/ 4-G1-3,5 P14THR	1952995	50
5	14.00	MCDNV 1,5/ 5-G1-3,5 P14THR	1953004	50
6	17.50	MCDNV 1,5/ 6-G1-3,5 P14THR	1953046	50
7	21.00	MCDNV 1,5/ 7-G1-3,5 P14THR	1953059	50
8	24.50	MCDNV 1,5/ 8-G1-3,5 P14THR	1953062	50
9	28.00	MCDNV 1,5/ 9-G1-3,5 P14THR	1953075	50
10	31.50	MCDNV 1,5/10-G1-3,5 P14THR	1953088	50
11	35.00	MCDNV 1,5/11-G1-3,5 P14THR	1953101	50
12	38.50	MCDNV 1,5/12-G1-3,5 P14THR	1953114	50
13	42.00	MCDNV 1,5/13-G1-3,5 P14THR	1953127	50
14	45.50	MCDNV 1,5/14-G1-3,5 P14THR	1953130	50
15	49.00	MCDNV 1,5/15-G1-3,5 P14THR	1953143	50
16	52.50	MCDNV 1,5/16-G1-3,5 P14THR	1953156	50
		3.81 mm pitch, color: Black		
2	3.81	MCDNV 1,5/ 2-G1-3,81 P14THR	1750106	50
3	7.62	MCDNV 1,5/ 3-G1-3,81 P14THR	1750119	50
4	11.43	MCDNV 1,5/ 4-G1-3,81 P14THR	1750122	50
5	15.24	MCDNV 1,5/ 5-G1-3,81 P14THR	1750135	50
6	19.05	MCDNV 1,5/ 6-G1-3,81 P14THR	1750148	50
7	22.86	MCDNV 1,5/ 7-G1-3,81 P14THR	1750151	50
8	26.67	MCDNV 1,5/ 8-G1-3,81 P14THR	1750164	50
9	30.48	MCDNV 1,5/ 9-G1-3,81 P14THR	1750177	50
10	34.29	MCDNV 1,5/10-G1-3,81 P14THR	1750180	50
11	38.10	MCDNV 1,5/11-G1-3,81 P14THR	1750193	50
12	41.91	MCDNV 1,5/12-G1-3,81 P14THR	1750203	50
13	45.72	MCDNV 1,5/13-G1-3,81 P14THR	1750216	50
14	49.53	MCDNV 1,5/14-G1-3,81 P14THR	1750229	50
15	53.34	MCDNV 1,5/15-G1-3,81 P14THR	1750232	50
16	57.15	MCDNV 1,5/16-G1-3,81 P14THR	1750245	50



2.6 mm pin length, plug-in direction vertical to the PCB



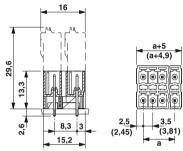
1.4 mm pin length, with engagement noses, plug-in direction vertical to the PCB



2.6 mm pin length, with engagement noses, plug-in direction vertical to the PCB



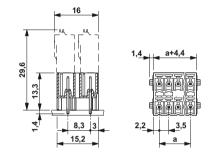
Dimensional drawing



Drilling diagram

PLus 🕑

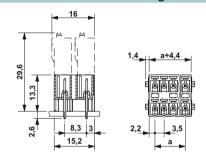
Dimensional drawing



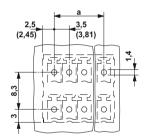
Drilling diagram

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Dimensional drawing



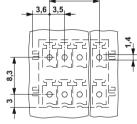
Drilling diagram



Ordering d	lata	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDNV 1,5/ 2-G1-3,5 P26THR	1952788	50
MCDNV 1,5/ 3-G1-3,5 P26THR	1952791	50
MCDNV 1,5/ 4-G1-3,5 P26THR	1952801	50
MCDNV 1,5/ 5-G1-3,5 P26THR	1952814	50
MCDNV 1,5/ 6-G1-3,5 P26THR	1952827	50
MCDNV 1,5/ 7-G1-3,5 P26THR	1952830	50
MCDNV 1,5/ 8-G1-3,5 P26THR	1952843	50
MCDNV 1,5/ 9-G1-3,5 P26THR	1952856	50
MCDNV 1,5/10-G1-3,5 P26THR	1952869	50
MCDNV 1,5/11-G1-3,5 P26THR	1952872	50
MCDNV 1,5/12-G1-3,5 P26THR	1952885	50
MCDNV 1,5/13-G1-3,5 P26THR	1952898	50
MCDNV 1,5/14-G1-3,5 P26THR	1952908	50
MCDNV 1,5/15-G1-3,5 P26THR	1952911	50
MCDNV 1,5/16-G1-3,5 P26THR	1952924	50
3.81 mm pitch, color: Black		
MCDNV 1,5/ 2-G1-3,81 P26THR	1750290	50
MCDNV 1,5/ 3-G1-3,81 P26THR	1750300	50
MCDNV 1,5/ 4-G1-3,81 P26THR	1750313	50
MCDNV 1,5/ 5-G1-3,81 P26THR	1750326	50
MCDNV 1,5/ 6-G1-3,81 P26THR	1750339	50
MCDNV 1,5/ 7-G1-3,81 P26THR	1750342	50
MCDNV 1,5/ 8-G1-3,81 P26THR	1750355	50
MCDNV 1,5/ 9-G1-3,81 P26THR	1750368	50
MCDNV 1,5/10-G1-3,81 P26THR	1750371	50
MCDNV 1,5/11-G1-3,81 P26THR	1750384	50
MCDNV 1,5/12-G1-3,81 P26THR	1750397	50
MCDNV 1,5/13-G1-3,81 P26THR	1750407	50
MCDNV 1,5/14-G1-3,81 P26THR	1750410	50
MCDNV 1,5/15-G1-3,81 P26THR	1750423	50

1750436

MCDNV 1,5/16-G1-3,81 P26THR

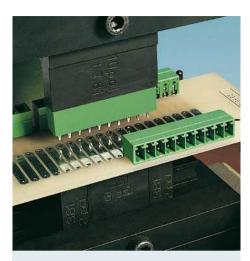


Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDNV 1,5/ 2-G1-3,5 RNP14THR	1952500	50
MCDNV 1,5/ 3-G1-3,5 RNP14THR	1952513	50
MCDNV 1,5/ 4-G1-3,5 RNP14THR	1952526	50
MCDNV 1,5/ 5-G1-3,5 RNP14THR	1952539	50
MCDNV 1,5/ 6-G1-3,5 RNP14THR	1952542	50
MCDNV 1,5/ 7-G1-3,5 RNP14THR	1952555	50
MCDNV 1,5/ 8-G1-3,5 RNP14THR	1952568	50
MCDNV 1,5/ 9-G1-3,5 RNP14THR	1952571	50
MCDNV 1,5/10-G1-3,5 RNP14THR	1952584	50
MCDNV 1,5/11-G1-3,5 RNP14THR	1952597	50
MCDNV 1,5/12-G1-3,5 RNP14THR	1952607	50
MCDNV 1,5/13-G1-3,5 RNP14THR	1952610	50
MCDNV 1,5/14-G1-3,5 RNP14THR	1952623	50
MCDNV 1,5/15-G1-3,5 RNP14THR	1952636	50
MCDNV 1,5/16-G1-3,5 RNP14THR	1952649	50

_	3,6 3,5 a	
*	[5-2-2-2-2-2-2-1-2-1-2-2-2-2-2-2-2-2-2-2-	
3 8,3		

Ordering da	ıta	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDNV 1,5/ 2-G1-3,5 RNP26THR	1952458	50
MCDNV 1,5/ 3-G1-3,5 RNP26THR	1952461	50
MCDNV 1,5/ 4-G1-3,5 RNP26THR	1952474	50
MCDNV 1,5/ 5-G1-3,5 RNP26THR	1952487	50
MCDNV 1,5/ 6-G1-3,5 RNP26THR	1952490	50
MCDNV 1,5/ 7-G1-3,5 RNP26THR	1952212	50
MCDNV 1,5/ 8-G1-3,5 RNP26THR	1952225	50
MCDNV 1,5/ 9-G1-3,5 RNP26THR	1952238	50
MCDNV 1,5/10-G1-3,5 RNP26THR	1952241	50
MCDNV 1,5/11-G1-3,5 RNP26THR	1952254	50
MCDNV 1,5/12-G1-3,5 RNP26THR	1952694	50
MCDNV 1,5/13-G1-3,5 RNP26THR	1952704	50
MCDNV 1,5/14-G1-3,5 RNP26THR	1952717	50
MCDNV 1,5/15-G1-3,5 RNP26THR	1952720	50
MCDNV 1,5/16-G1-3,5 RNP26THR	1952733	50

Single-level header for press-in technology



- Pin strips with flexible press-in zone **ERNI-PRESS**
- Plug-in direction horizontal and vertical to the PCB
- Processing as per EN 60352-5
- Press-in tools available on request
- Versions with and without a threaded
- You can find user notes and recommendations for the press-in technology on page 31

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C.

For the structure of the plated bore hole for EMC 1,5/...-G(F)-... and EMCV 1,5/....-G(F)-... see page 31.

Accessories

Stamp set EMCV 1,5-SS 1

Order No. 1877274



Plug-in direction parallel to the PCB

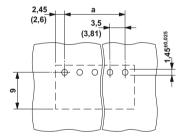
Dimensional drawing

P) 20 /P2

For all types Туре Page Coding profile CP-MSTB 38 20.2 Order No. 10,7 a+4.9 1734634 (a+5,2)Marker cards 797 Ξ, 66666 SK 3,5/2,8 or SK 3,81/2,8 Stamp holder EMC 1,5-SH 826 (3,81) (2.6)Order No. 1877258

Drilling diagram

Minimum printed circuit board thickness 1.5 mm



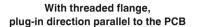
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[A] [V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
•	

	8	
	160	
	160	
	3.5 / 3.81	
III/3	III/2	II / 2
160	160	250
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PBT / Illa	
	V0	
1.45	5 / 0,8 x 0,8	mm

Only for EMCV 1,5/...-G(F)-3,81

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	3.5 mm pitch, color: green		
2	3.50	EMC 1,5/ 2-G-3,5	1897092	50
3	7.00	EMC 1,5/ 3-G-3,5	1897102	50
4	10.50	EMC 1,5/ 4-G-3,5	1897115	50
5	14.00	EMC 1,5/ 5-G-3,5	1897128	50
6	17.50	EMC 1,5/ 6-G-3,5	1897131	50
7	21.00	EMC 1,5/ 7-G-3,5	1897144	50
8	24.50	EMC 1,5/ 8-G-3,5	1897157	50
9	28.00	EMC 1,5/ 9-G-3,5	1897160	50
10	31.50	EMC 1,5/10-G-3,5	1897173	50
11	35.00	EMC 1,5/11-G-3,5	1897186	50
12	38.50	EMC 1,5/12-G-3,5	1897199	50
13	42.00	EMC 1,5/13-G-3,5	1897209	50
14	45.50	EMC 1,5/14-G-3,5	1897212	50
15	49.00	EMC 1,5/15-G-3,5	1897225	50
16	52.50	EMC 1,5/16-G-3,5	1897238	50
		Pitch 3.81 mm, color: green		
2	3.81	EMC 1,5/ 2-G-3,81	1897801	50
3	7.62	EMC 1,5/ 3-G-3,81	1897814	50
4	11.43	EMC 1,5/ 4-G-3,81	1897827	50
5	15.24	EMC 1,5/ 5-G-3,81	1897830	50
6	19.05	EMC 1,5/ 6-G-3,81	1897843	50
7	22.86	EMC 1,5/ 7-G-3,81	1897856	50
8	26.67	EMC 1,5/ 8-G-3,81	1897869	50
9	30.48	EMC 1,5/ 9-G-3,81	1897872	50
10	34.29	EMC 1,5/10-G-3,81	1897885	50
11	38.10	EMC 1,5/11-G-3,81	1897898	50
12	41.91	EMC 1,5/12-G-3,81	1897908	50
13	45.72	EMC 1,5/13-G-3,81	1897911	50
14	49.53	EMC 1,5/14-G-3,81	1897924	50
15	53.34	EMC 1,5/15-G-3,81	1897937	50
16	57.15	EMC 1,5/16-G-3,81	1897940	50







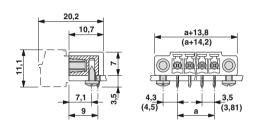
Plug-in direction vertical to the PCB



With threaded flange, plug-in direction vertical to the PCB

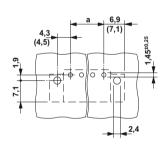
€ 20 **21 27** 20

Dimensional drawing



Drilling diagram

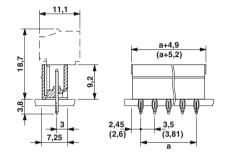
Minimum printed circuit board thickness 1.5 mm



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
EMC 1,5/ 2-GF-3,5	1897241	50	
EMC 1,5/ 3-GF-3,5	1897254	50	
EMC 1,5/ 4-GF-3,5	1897267	50	
EMC 1,5/ 5-GF-3,5	1897270	50	
EMC 1,5/ 6-GF-3,5	1897283	50	
EMC 1,5/ 7-GF-3,5	1897296	50	
EMC 1,5/ 8-GF-3,5	1897306	50	
EMC 1,5/ 9-GF-3,5	1897319	50	
EMC 1,5/10-GF-3,5	1897322	50	
EMC 1,5/11-GF-3,5	1897335	50	
EMC 1,5/12-GF-3,5	1897348	50	
EMC 1,5/13-GF-3,5	1897351	50	
EMC 1,5/14-GF-3,5	1897364	50	
EMC 1,5/15-GF-3,5	1897377	50	
EMC 1,5/16-GF-3,5	1897380	50	
Pitch 3.81 mm, color: green			
EMC 1,5/ 2-GF-3,81	1896941	50	
EMC 1,5/ 3-GF-3,81	1896954	50	
EMC 1,5/ 4-GF-3,81	1896967	50	
EMC 1,5/ 5-GF-3,81	1896970	50	
EMC 1,5/ 6-GF-3,81	1896983	50	
EMC 1,5/ 7-GF-3,81	1896996	50	
EMC 1,5/ 8-GF-3,81	1897005	50	
EMC 1,5/ 9-GF-3,81	1897018	50	
EMC 1,5/10-GF-3,81	1897021	50	
EMC 1,5/11-GF-3,81	1897034	50	
EMC 1,5/12-GF-3,81	1897047	50	
EMC 1,5/13-GF-3,81	1897050	50	
EMC 1,5/14-GF-3,81	1897063	50	
EMC 1,5/15-GF-3,81	1897076	50	
EMC 1,5/16-GF-3,81	1897089	50	

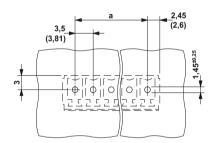
PLus 🕑

Dimensional drawing



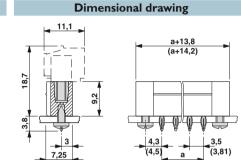
Drilling diagram

Minimum printed circuit board thickness 1.5 mm



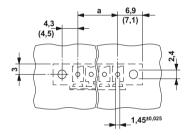
Ordering data		
Туре	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: green		
EMCV 1,5/ 2-G-3,5	1911017	50
EMCV 1,5/ 3-G-3,5	1911020	50
EMCV 1,5/ 4-G-3,5	1911033	50
EMCV 1,5/ 5-G-3,5	1911046	50
EMCV 1,5/ 6-G-3,5	1911059	50
EMCV 1,5/ 7-G-3,5	1911062	50
EMCV 1,5/ 8-G-3,5	1911075	50
EMCV 1,5/ 9-G-3,5	1911088	50
EMCV 1,5/10-G-3,5	1911091	50
EMCV 1,5/11-G-3,5	1911101	50
EMCV 1,5/12-G-3,5	1911114	50
EMCV 1,5/13-G-3,5	1911127	50
EMCV 1,5/14-G-3,5	1911130	50
EMCV 1,5/15-G-3,5	1911143	50
EMCV 1,5/16-G-3,5	1911156	50
Pitch 3.81 mm, color: green		
EMCV 1,5/ 2-G-3,81	1860647	50
EMCV 1,5/ 3-G-3,81	1860650	50
EMCV 1,5/ 4-G-3,81	1860663	50
EMCV 1,5/ 5-G-3,81	1860676	50
EMCV 1,5/ 6-G-3,81	1860689	50
EMCV 1,5/ 7-G-3,81	1860692	50
EMCV 1,5/ 8-G-3,81	1860702	50
EMCV 1,5/ 9-G-3,81	1860715	50
EMCV 1,5/10-G-3,81	1860728	50
EMCV 1,5/11-G-3,81	1860731	50
EMCV 1,5/12-G-3,81	1860744	50
EMCV 1,5/13-G-3,81	1860757	50
EMCV 1,5/14-G-3,81	1860760	50
EMCV 1,5/15-G-3,81	1860773	50
EMCV 1,5/16-G-3,81	1860786	50

PLus 🕑



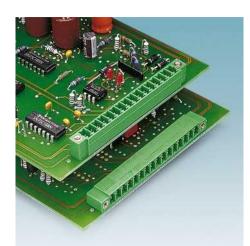
Drilling diagram

Minimum printed circuit board thickness 1.5 mm



	-11		
	Ordering dat	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	3.5 mm pitch, color: green		
	EMCV 1,5/ 2-GF-3,5	1911169	50
	EMCV 1,5/ 3-GF-3,5	1911172	50
	EMCV 1,5/ 4-GF-3,5	1911185	50
	EMCV 1,5/ 5-GF-3,5	1911198	50
	EMCV 1,5/ 6-GF-3,5	1911208	50
	EMCV 1,5/ 7-GF-3,5	1911211	50
	EMCV 1,5/ 8-GF-3,5	1911224	50
	EMCV 1,5/ 9-GF-3,5	1911237	50
	EMCV 1,5/10-GF-3,5	1911240	50
	EMCV 1,5/11-GF-3,5	1911253	50
	EMCV 1,5/12-GF-3,5	1911266	50
	EMCV 1,5/13-GF-3,5	1911279	50
	EMCV 1,5/14-GF-3,5	1911282	50
	EMCV 1,5/15-GF-3,5	1911295	50
	EMCV 1,5/16-GF-3,5	1911305	50
	Pitch 3.81 mm, color: green		
	EMCV 1,5/ 2-GF-3,81	1879285	50
	EMCV 1,5/ 3-GF-3,81	1879298	50
	EMCV 1,5/ 4-GF-3,81	1879308	50
	EMCV 1,5/ 5-GF-3,81	1879311	50
	EMCV 1,5/ 6-GF-3,81	1879324	50
	EMCV 1,5/ 7-GF-3,81	1879337	50
	EMCV 1,5/ 8-GF-3,81	1879340	50
	EMCV 1,5/ 9-GF-3,81	1879353	50
	EMCV 1,5/10-GF-3,81	1879366	50
	EMCV 1,5/11-GF-3,81	1879379	50
_	EMCV 1,5/12-GF-3,81	1879382	50
	EMCV 1,5/13-GF-3,81	1879395	50
	EMCV 1,5/14-GF-3,81	1879405	50
	EMCV 1,5/15-GF-3,81	1879418	50
	EMCV 1,5/16-GF-3,81	1879421	50

Single-level header for the wave soldering processes



- Low-profile pin strips with compact pitches
- Plug-in direction parallel and vertical to the PCB
- Versions with and without a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with Lock & Release locking and threaded flange can be used with plugs with Lock & Release or with screw flange
- Individual position coding by inserting the coding profiles
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

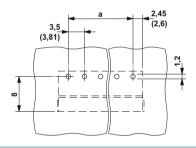
Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C. Screw connection only permitted prior to soldering.



Plug-in direction parallel to the PCB

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Accessories **Dimensional drawing** For all types Туре Page Coding profile CP-MSTB 38 9,2 1734634 Marker cards 797 SK 3,5/2,8 or SK 3,81/2,8



Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current	[A]		8	
Rated insulation voltage for pollution degree 2	[V]		160	
Pitch	[mm]		3.5 / 3.81	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group			PBT / Illa	
Inflammability class according to UL 94			V0	
Drill hole diameter / pin dimensions	[mm]	1.2	/ 0,8 x 0,8 r	nm

		Ordering dat	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	3.5 mm pitch, color: green		
2	3.50	MC 1,5/ 2-G-3,5	1844210	250
3	7.00	MC 1,5/ 3-G-3,5	1844223	250
4	10.50	MC 1,5/ 4-G-3,5	1844236	250
5	14.00	MC 1,5/ 5-G-3,5	1844249	250
6	17.50	MC 1,5/ 6-G-3,5	1844252	100
7	21.00	MC 1,5/ 7-G-3,5	1844265	100
8	24.50	MC 1,5/ 8-G-3,5	1844278	100
9	28.00	MC 1,5/ 9-G-3,5	1844281	100
10	31.50	MC 1,5/10-G-3,5	1844294	100
11	35.00	MC 1,5/11-G-3,5	1844304	50
12	38.50	MC 1,5/12-G-3,5	1844317	50
13	42.00	MC 1,5/13-G-3,5	1844320	50
14	45.50	MC 1,5/14-G-3,5	1844333	50
15	49.00	MC 1,5/15-G-3,5	1844346	50
16	52.50	MC 1,5/16-G-3,5	1844359	50
		Pitch 3.81 mm, color: green		
2	3.81	MC 1,5/ 2-G-3,81	1803277	250
3	7.62	MC 1,5/ 3-G-3,81	1803280	250
4	11.43	MC 1,5/ 4-G-3,81	1803293	250
5	15.24	MC 1,5/ 5-G-3,81	1803303	250
6	19.05	MC 1,5/ 6-G-3,81	1803316	100
7	22.86	MC 1,5/ 7-G-3,81	1803329	100
8	26.67	MC 1,5/ 8-G-3,81	1803332	100
9	30.48	MC 1,5/ 9-G-3,81	1803345	100
10	34.29	MC 1,5/10-G-3,81	1803358	100
11	38.10	MC 1,5/11-G-3,81	1803361	50
12	41.91	MC 1,5/12-G-3,81	1803374	50
13	45.72	MC 1,5/13-G-3,81	1803387	50
14	49.53	MC 1,5/14-G-3,81	1803390	50
15	53.34	MC 1,5/15-G-3,81	1803400	50
16	57.15	MC 1,5/16-G-3,81	1803413	50
		*		









With engagement noses, plug-in direction parallel to the PCB

With threaded flange, plug-in direction parallel to the PCB With Lock & Release mechanism and threaded flange, plug-in direction parallel to the PCB

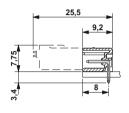


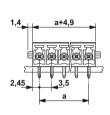


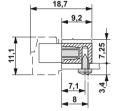


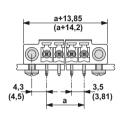
Dimensional drawing

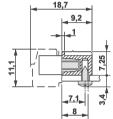
Dimensional drawing

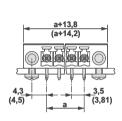








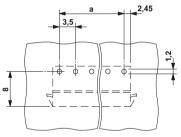


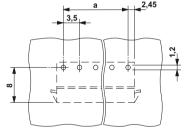


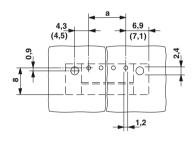
Drilling diagram

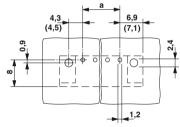
Drilling diagram

Drilling diagram









Ordering data		
Туре	Order No.	Pcs. / Pkt
3.5 mm pitch, color: green		
MC 1,5/ 2-G-3,5-RN	1731675	50
MC 1,5/ 3-G-3,5-RN	1731688	50
MC 1,5/ 4-G-3,5-RN	1731691	50
MC 1,5/ 5-G-3,5-RN	1731701	50
MC 1,5/ 6-G-3,5-RN	1731714	50
MC 1,5/ 7-G-3,5-RN	1731727	50
MC 1,5/ 8-G-3,5-RN	1731730	50
MC 1,5/ 9-G-3,5-RN	1731743	50
MC 1,5/10-G-3,5-RN	1731756	50
MC 1,5/11-G-3,5-RN	1731769	50
MC 1,5/12-G-3,5-RN	1731772	50
MC 1,5/13-G-3,5-RN	1731785	50
MC 1,5/14-G-3,5-RN	1731798	50
MC 1,5/15-G-3,5-RN	1731808	50
MC 1,5/16-G-3,5-RN	1731811	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
MC 1,5/ 2-GF-3,5	1843790	250	
MC 1,5/ 3-GF-3,5	1843800	250	
MC 1,5/ 4-GF-3,5	1843813	250	
MC 1,5/ 5-GF-3,5	1843826	250	
MC 1,5/ 6-GF-3,5	1843839	100	
MC 1,5/ 7-GF-3,5	1843842	100	
MC 1,5/ 8-GF-3,5	1843855	100	
MC 1,5/ 9-GF-3,5	1843868	100	
MC 1,5/10-GF-3,5	1843871	100	
MC 1,5/11-GF-3,5	1843884	50	
MC 1,5/12-GF-3,5	1843897	50	
MC 1,5/13-GF-3,5	1843907	50	
MC 1,5/14-GF-3,5	1843910	50	
MC 1,5/15-GF-3,5	1843923	50	
MC 1,5/16-GF-3,5	1843936	50	
Pitch 3.81 mm, color: green			
MC 1,5/ 2-GF-3,81	1827868	250	
MC 1,5/ 3-GF-3,81	1827871	250	
MC 1,5/ 4-GF-3,81	1827884	250	
MC 1,5/ 5-GF-3,81	1827897	250	
MC 1,5/ 6-GF-3,81	1827907	100	
MC 1,5/ 7-GF-3,81	1827910	100	
MC 1,5/ 8-GF-3,81	1827923	100	
MC 1,5/ 9-GF-3,81	1827936	100	
MC 1,5/10-GF-3,81	1827949	100	
MC 1,5/11-GF-3,81	1827952	50	
MC 1,5/12-GF-3,81	1827965	50	
MC 1,5/13-GF-3,81	1827978	50	
MC 1.5/14-GF-3.81	1827981	50	

	-> 	∢ 1 ,2	
	Ordering da	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	3.5 mm pitch, color: green		
	MC 1,5/ 2-GF-3,5-LR	1817615	50
	MC 1,5/ 3-GF-3,5-LR	1817628	50
	MC 1,5/ 4-GF-3,5-LR	1817631	50
	MC 1,5/ 5-GF-3,5-LR	1817644	50
	MC 1,5/ 6-GF-3,5-LR	1817657	50
	MC 1,5/ 7-GF-3,5-LR	1817660	50
	MC 1,5/ 8-GF-3,5-LR	1817673	50
	MC 1,5/ 9-GF-3,5-LR	1817686	50
	MC 1,5/10-GF-3,5-LR	1817699	50
	MC 1,5/11-GF-3,5-LR	1817709	50
	MC 1,5/12-GF-3,5-LR	1817712	50
	MC 1,5/13-GF-3,5-LR	1817725	50
	MC 1,5/14-GF-3,5-LR	1817738	50
	MC 1,5/15-GF-3,5-LR	1817741	50
_	MC 1,5/16-GF-3,5-LR	1817754	50
	Pitch 3.81 mm, color: green		
	MC 1,5/ 2-GF-3,81-LR	1817806	50
	MC 1,5/ 3-GF-3,81-LR	1817819	50
	MC 1,5/ 4-GF-3,81-LR	1817822	50
	MC 1,5/ 5-GF-3,81-LR	1817835	50
	MC 1,5/ 6-GF-3,81-LR	1817848	50
	MC 1,5/ 7-GF-3,81-LR	1817851	50
	MC 1,5/ 8-GF-3,81-LR	1817864	50
	MC 1,5/ 9-GF-3,81-LR	1817877	50
	MC 1,5/10-GF-3,81-LR	1817880	50
	MC 1,5/11-GF-3,81-LR	1817893	50
	MC 1,5/12-GF-3,81-LR	1817903	50
_	MC 1,5/13-GF-3,81-LR	1817916	50
_	MC 1,5/14-GF-3,81-LR	1817929	50
	MC 1,5/15-GF-3,81-LR	1817932	50
_	MC 1,5/16-GF-3,81-LR	1817945	50
_			

1827994

1828003

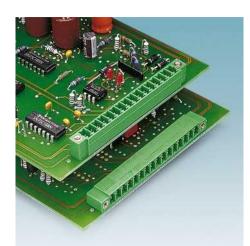
50

50

MC 1,5/15-GF-3,81

MC 1.5/16-GF-3.81

Single-level header for the wave soldering processes



- Low-profile pin strips with compact pitches
- Plug-in direction vertical to the PCB
- Versions with and without a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with Lock & Release locking and threaded flange can be used with plugs with Lock & Release or with screw flange

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C. Screw connection only permitted prior to soldering.



Plug-in direction vertical to the PCB

€ .**\$1** us € CB.

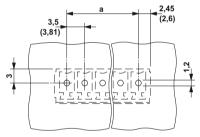
Dimensional drawing 11,1 (2,6)

Drilling diagram

a+4,9

(a+5,2)

(3,81)



Accessories			
For all types	Туре	Page	
*	Coding profile CP-MSTB Order No. 1734634	38	
a a	Marker cards SK 3,81/2,8	797	

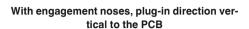
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	8	
	160	
	3.5 / 3.81	
III/3	III/2	II / 2
160	160	250
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
-	-	-
В	С	D
300	-	300
8	-	8
-	-	-
	PBT / Illa	
V0		
1.2	! / 0,8 x 0,8 r	mm

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	3.5 mm pitch, color: green		
2	3.50	MCV 1,5/ 2-G-3,5	1843606	250
3	7.00	MCV 1,5/ 3-G-3,5	1843619	250
4	10.50	MCV 1,5/ 4-G-3,5	1843622	250
5	14.00	MCV 1,5/ 5-G-3,5	1843635	250
6	17.50	MCV 1,5/ 6-G-3,5	1843648	100
7	21.00	MCV 1,5/ 7-G-3,5	1843651	100
8	24.50	MCV 1,5/ 8-G-3,5	1843664	100
9	28.00	MCV 1,5/ 9-G-3,5	1843677	100
10	31.50	MCV 1,5/10-G-3,5	1843680	100
11	35.00	MCV 1,5/11-G-3,5	1843693	50
12	38.50	MCV 1,5/12-G-3,5	1843703	50
13	42.00	MCV 1,5/13-G-3,5	1843716	50
14	45.50	MCV 1,5/14-G-3,5	1843729	50
15	49.00	MCV 1,5/15-G-3,5	1843732	50
16	52.50	MCV 1,5/16-G-3,5	1843745	50
		Pitch 3.81 mm, color: green		
2	3.81	MCV 1,5/ 2-G-3,81	1803426	250
3	7.62	MCV 1,5/ 3-G-3,81	1803439	250
4	11.43	MCV 1,5/ 4-G-3,81	1803442	250
5	15.24	MCV 1,5/ 5-G-3,81	1803455	250
6	19.05	MCV 1,5/ 6-G-3,81	1803468	100
7	22.86	MCV 1,5/ 7-G-3,81	1803471	100
8	26.67	MCV 1,5/ 8-G-3,81	1803484	100
9	30.48	MCV 1,5/ 9-G-3,81	1803497	100
10	34.29	MCV 1,5/10-G-3,81	1803507	100
11	38.10	MCV 1,5/11-G-3,81	1803510	50
12	41.91	MCV 1,5/12-G-3,81	1803523	50
13	45.72	MCV 1,5/13-G-3,81	1803536	50
14	49.53	MCV 1,5/14-G-3,81	1803549	50
15	53.34	MCV 1,5/15-G-3,81	1803552	50
16	57.15	MCV 1,5/16-G-3,81	1803565	50
		•		









With threaded flange, plug-in direction vertical to the PCB

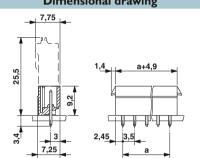
(F) LUS (C) LOS CB



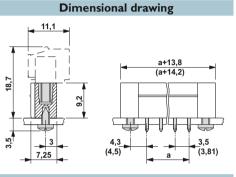
With Lock & Release mechanism and threaded flange, plug-in direction parallel to the PCB

Dimensional drawing





Dimensional drawing



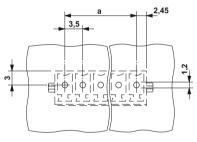
a+13,8 (a+14,2)

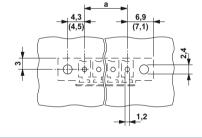
(3,81)

Drilling diagram

Drilling diagram

Drilling diagram





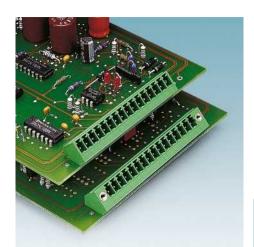
	-	4,3	•	a 3,5 (3,81)	6,9 (7,1)	
6 4					9 0	
	Ø2, <u>4</u>	-	-	Ø1,2		

Ordering data			
Туре	Order No.	Pcs. / Pkt	
3.5 mm pitch, color: green			
MCV 1,5/ 2-G-3,5-RN	1731471	50	
MCV 1,5/ 3-G-3,5-RN	1731484	50	
MCV 1,5/ 4-G-3,5-RN	1731497	50	
MCV 1,5/ 5-G-3,5-RN	1731510	50	
MCV 1,5/ 6-G-3,5-RN	1731523	50	
MCV 1,5/ 7-G-3,5-RN	1731536	50	
MCV 1,5/ 8-G-3,5-RN	1731549	50	
MCV 1,5/ 9-G-3,5-RN	1731552	50	
MCV 1,5/10-G-3,5-RN	1731565	50	
MCV 1,5/11-G-3,5-RN	1731578	50	
MCV 1,5/12-G-3,5-RN	1731581	50	
MCV 1,5/13-G-3,5-RN	1731594	50	
MCV 1,5/14-G-3,5-RN	1731604	50	
MCV 1,5/15-G-3,5-RN	1731617	50	
MCV 1,5/16-G-3,5-RN	1731620	50	
·			

Type 3.5 mm pitch, color: green MCV 1,5/2-GF-3,5 1843224 250 MCV 1,5/3-GF-3,5 1843237 250 MCV 1,5/4-GF-3,5 1843237 250 MCV 1,5/5-GF-3,5 1843253 250 MCV 1,5/6-GF-3,5 1843253 250 MCV 1,5/6-GF-3,5 1843266 100 MCV 1,5/6-GF-3,5 1843279 100 MCV 1,5/6-GF-3,5 1843282 100 MCV 1,5/9-GF-3,5 1843282 100 MCV 1,5/10-GF-3,5 1843282 100 MCV 1,5/10-GF-3,5 1843285 100 MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/10-GF-3,5 1843318 50 MCV 1,5/10-GF-3,5 1843321 50 MCV 1,5/10-GF-3,5 1843321 50 MCV 1,5/10-GF-3,5 1843321 50 MCV 1,5/16-GF-3,5 1843347 50 MCV 1,5/15-GF-3,5 1843347 50 MCV 1,5/15-GF-3,5 1843363 50 MCV 1,5/15-GF-3,5 1843363 50 MCV 1,5/15-GF-3,81 184366 250 MCV 1,5/6-GF-3,81 1830619 250 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830636 100 MCV 1,5/7-GF-3,81 1830636 100 MCV 1,5/1-GF-3,81 1830664 100 MCV 1,5/1-GF-3,81 1830664 100 MCV 1,5/1-GF-3,81 1830693 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/16-GF-3,81 1830703 50 MCV 1,5/16-GF-3,81 1830732 50	Ordering data			
MCV 1,5/2-GF-3,5 1843224 250 MCV 1,5/3-GF-3,5 1843237 250 MCV 1,5/4-GF-3,5 1843240 250 MCV 1,5/5-GF-3,5 1843253 250 MCV 1,5/6-GF-3,5 1843253 250 MCV 1,5/6-GF-3,5 1843279 100 MCV 1,5/8-GF-3,5 1843282 100 MCV 1,5/8-GF-3,5 1843295 100 MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/10-GF-3,5 1843318 50 MCV 1,5/13-GF-3,5 1843314 50 MCV 1,5/13-GF-3,5 1843347 50 MCV 1,5/13-GF-3,5 1843347 50 MCV 1,5/14-GF-3,5 1843347 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3,81 mm, color: green MCV 1,5/2-GF-3,81 1830696 250 MCV 1,5/3-GF-3,81 1830619 250 MCV 1,5/4-GF-3,81 1830635 100 MCV 1,5/6-GF-3,81 1830648 100 MCV 1,5/10-GF-3,81 1830649	Туре	Order No.	Pcs. / Pkt.	
MCV 1,5/3-GF-3,5 1843237 250 MCV 1,5/4-GF-3,5 1843240 250 MCV 1,5/5-GF-3,5 1843253 250 MCV 1,5/5-GF-3,5 1843266 100 MCV 1,5/7-GF-3,5 1843279 100 MCV 1,5/9-GF-3,5 1843282 100 MCV 1,5/9-GF-3,5 1843295 100 MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/1-GF-3,5 1843318 50 MCV 1,5/1-GF-3,5 1843321 50 MCV 1,5/13-GF-3,5 1843334 50 MCV 1,5/14-GF-3,5 1843347 50 MCV 1,5/14-GF-3,5 1843347 50 MCV 1,5/16-GF-3,5 1843350 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830696 250 MCV 1,5/3-GF-3,81 1830696 250 MCV 1,5/3-GF-3,81 1830619 250 MCV 1,5/3-GF-3,81 1830692 250 MCV 1,5/3-GF-3,81 1830693 100	3.5 mm pitch, color: green			
MCV 1,5/4-GF-3,5 1843240 250 MCV 1,5/5-GF-3,5 1843253 250 MCV 1,5/6-GF-3,5 1843253 250 MCV 1,5/6-GF-3,5 1843279 100 MCV 1,5/8-GF-3,5 1843282 100 MCV 1,5/9-GF-3,5 1843295 100 MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/12-GF-3,5 1843318 50 MCV 1,5/12-GF-3,5 1843334 50 MCV 1,5/13-GF-3,5 1843347 50 MCV 1,5/14-GF-3,5 1843347 50 MCV 1,5/16-GF-3,5 1843350 50 Pitch 3.81 mm, color: green MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/3-GF-3,81 1830696 250 MCV 1,5/3-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830619 250 MCV 1,5/3-GF-3,81 1830635 100 MCV 1,5/3-GF-3,81 1830648 100 MCV 1,5/10-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830660<		1843224	250	
MCV 1,5/5-GF-3,5 1843253 250 MCV 1,5/6-GF-3,5 1843266 100 MCV 1,5/7-GF-3,5 1843279 100 MCV 1,5/9-GF-3,5 1843282 100 MCV 1,5/9-GF-3,5 1843295 100 MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/11-GF-3,5 1843318 50 MCV 1,5/13-GF-3,5 1843321 50 MCV 1,5/13-GF-3,5 1843334 50 MCV 1,5/13-GF-3,5 1843347 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/4-GF-3,81 1830619 250 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/6-GF-3,81 1830648 100 MCV 1,5/3-GF-3,81 1830648 100 MCV 1,5/10-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830660 50 MCV 1,5/10-GF-3,81 1830660 50	MCV 1,5/ 3-GF-3,5	1843237	250	
MCV 1,5/6-GF-3,5 1843266 100 MCV 1,5/7-GF-3,5 1843279 100 MCV 1,5/9-GF-3,5 1843282 100 MCV 1,5/9-GF-3,5 1843295 100 MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/11-GF-3,5 1843318 50 MCV 1,5/13-GF-3,5 1843321 50 MCV 1,5/13-GF-3,5 1843334 50 MCV 1,5/13-GF-3,5 1843347 50 MCV 1,5/14-GF-3,5 1843350 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/2-GF-3,81 1830606 250 MCV 1,5/2-GF-3,81 1830619 250 MCV 1,5/3-GF-3,81 1830622 250 MCV 1,5/3-GF-3,81 1830635 100 MCV 1,5/3-GF-3,81 1830648 100 MCV 1,5/3-GF-3,81 1830648 100 MCV 1,5/3-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830660 50	MCV 1,5/ 4-GF-3,5	1843240	250	
MCV 1,5/7-GF-3,5 1843279 100 MCV 1,5/8-GF-3,5 1843282 100 MCV 1,5/9-GF-3,5 1843282 100 MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/11-GF-3,5 1843318 50 MCV 1,5/11-GF-3,5 1843321 50 MCV 1,5/13-GF-3,5 1843347 50 MCV 1,5/15-GF-3,5 1843347 50 MCV 1,5/16-GF-3,5 1843350 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/2-GF-3,81 1830606 250 MCV 1,5/3-GF-3,81 1830602 250 MCV 1,5/3-GF-3,81 1830635 100 MCV 1,5/3-GF-3,81 1830648 100 MCV 1,5/3-GF-3,81 1830651 100 MCV 1,5/3-GF-3,81 1830664 100 MCV 1,5/3-GF-3,81 1830650 50 MCV 1,5/3-GF-3,81 1830690 50 MCV 1,5/3-GF-3,81 1830690 50	MCV 1,5/ 5-GF-3,5	1843253	250	
MCV 1,5/8-GF-3,5 1843282 100 MCV 1,5/9-GF-3,5 1843295 100 MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/11-GF-3,5 1843318 50 MCV 1,5/12-GF-3,5 1843321 50 MCV 1,5/13-GF-3,5 1843334 50 MCV 1,5/16-GF-3,5 1843330 50 MCV 1,5/16-GF-3,5 1843350 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/2-GF-3,81 1830600 250 MCV 1,5/3-GF-3,81 1830619 250 MCV 1,5/3-GF-3,81 1830635 100 MCV 1,5/3-GF-3,81 1830635 100 MCV 1,5/3-GF-3,81 1830648 100 MCV 1,5/3-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830690 50 MCV 1,5/14-GF-3,81 1830690 50 MCV 1,5/14-GF-3,81 1830690 50 <t< td=""><td>MCV 1,5/ 6-GF-3,5</td><td>1843266</td><td>100</td></t<>	MCV 1,5/ 6-GF-3,5	1843266	100	
MCV 1,5/9-GF-3,5 1843295 100 MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/11-GF-3,5 1843318 50 MCV 1,5/12-GF-3,5 1843321 50 MCV 1,5/12-GF-3,5 1843334 50 MCV 1,5/14-GF-3,5 1843347 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/5-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/5-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/3-GF-3,81 1830648 100 MCV 1,5/10-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830667 100 MCV 1,5/10-GF-3,81 1830680 50 MCV 1,5/14-GF-3,81 1830693 50 MCV 1,5/14-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830703 50	MCV 1,5/ 7-GF-3,5	1843279	100	
MCV 1,5/10-GF-3,5 1843305 100 MCV 1,5/11-GF-3,5 1843318 50 MCV 1,5/12-GF-3,5 1843321 50 MCV 1,5/13-GF-3,5 1843334 50 MCV 1,5/13-GF-3,5 1843347 50 MCV 1,5/14-GF-3,5 1843350 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/4-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/5-GF-3,81 1830635 100 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/6-GF-3,81 1830648 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830667 100 MCV 1,5/10-GF-3,81 1830680 50 MCV 1,5/14-GF-3,81 1830693 50 MCV 1,5/14-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830703 50	MCV 1,5/ 8-GF-3,5	1843282	100	
MCV 1,5/11-GF-3,5 1843318 50 MCV 1,5/12-GF-3,5 1843321 50 MCV 1,5/13-GF-3,5 1843324 50 MCV 1,5/14-GF-3,5 1843334 50 MCV 1,5/15-GF-3,5 1843350 50 MCV 1,5/15-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/4-GF-3,81 1830619 250 MCV 1,5/4-GF-3,81 1830622 250 MCV 1,5/5-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/9-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/14-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 18307016 50 MCV 1,5/14-GF-3,81 1830703 50 MCV 1,5/15-GF-3,81 1830703 50	MCV 1,5/ 9-GF-3,5	1843295	100	
MCV 1,5/12-GF-3,5 1843321 50 MCV 1,5/13-GF-3,5 1843334 50 MCV 1,5/14-GF-3,5 1843334 50 MCV 1,5/16-GF-3,5 1843350 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/2-GF-3,81 1830606 250 MCV 1,5/3-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/7-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830635 100 MCV 1,5/9-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/12-GF-3,81 1830680 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830703 50 MCV 1,5/15-GF-3,81 1830703 50	MCV 1,5/10-GF-3,5	1843305	100	
MCV 1,5/13-GF-3,5 1843334 50 MCV 1,5/14-GF-3,5 1843347 50 MCV 1,5/15-GF-3,5 1843350 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830609 250 MCV 1,5/5-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/5-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830667 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/14-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 18307016 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/11-GF-3,5	1843318	50	
MCV 1,5/14-GF-3,5 1843347 50 MCV 1,5/15-GF-3,5 1843350 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/5-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/6-GF-3,81 1830648 100 MCV 1,5/3-GF-3,81 1830648 100 MCV 1,5/10-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 18306677 100 MCV 1,5/10-GF-3,81 1830680 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/12-GF-3,5	1843321	50	
MCV 1,5/15-GF-3,5 1843350 50 MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/3-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830635 100 MCV 1,5/8-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/14-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/13-GF-3,5	1843334	50	
MCV 1,5/16-GF-3,5 1843363 50 Pitch 3.81 mm, color: green Beauty 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/4-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/8-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830703 50 MCV 1,5/15-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/14-GF-3,5	1843347	50	
Pitch 3.81 mm, color: green MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/4-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/9-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/15-GF-3,5	1843350	50	
MCV 1,5/2-GF-3,81 1830596 250 MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/3-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/9-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 18306677 100 MCV 1,5/10-GF-3,81 1830680 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/16-GF-3,5	1843363	50	
MCV 1,5/3-GF-3,81 1830606 250 MCV 1,5/4-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/5-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/8-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/13-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	Pitch 3.81 mm, color: green			
MCV 1,5/4-GF-3,81 1830619 250 MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/8-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/ 2-GF-3,81	1830596	250	
MCV 1,5/5-GF-3,81 1830622 250 MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/8-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/ 3-GF-3,81	1830606	250	
MCV 1,5/6-GF-3,81 1830635 100 MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/8-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/ 4-GF-3,81	1830619	250	
MCV 1,5/7-GF-3,81 1830648 100 MCV 1,5/8-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/ 5-GF-3,81	1830622	250	
MCV 1,5/8-GF-3,81 1830651 100 MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/ 6-GF-3,81	1830635	100	
MCV 1,5/9-GF-3,81 1830664 100 MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/ 7-GF-3,81	1830648	100	
MCV 1,5/10-GF-3,81 1830677 100 MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/ 8-GF-3,81	1830651	100	
MCV 1,5/11-GF-3,81 1830680 50 MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/ 9-GF-3,81	1830664	100	
MCV 1,5/12-GF-3,81 1830693 50 MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/10-GF-3,81	1830677	100	
MCV 1,5/13-GF-3,81 1830703 50 MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/11-GF-3,81	1830680	50	
MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/12-GF-3,81	1830693	50	
MCV 1,5/14-GF-3,81 1830716 50 MCV 1,5/15-GF-3,81 1830729 50	MCV 1,5/13-GF-3,81	1830703	50	
MCV 1,5/15-GF-3,81 1830729 50		1830716	50	
MCV 1,5/16-GF-3,81 1830732 50	MCV 1,5/15-GF-3,81	1830729	50	
	MCV 1,5/16-GF-3,81	1830732	50	

Ordering data			
Туре	Order No.	Pcs. / Pk	
3.5 mm pitch, color: green			
MCV 1,5/ 2-GF-3,5-LR	1817990	50	
MCV 1,5/ 3-GF-3,5-LR	1818009	50	
MCV 1,5/ 4-GF-3,5-LR	1818012	50	
MCV 1,5/ 5-GF-3,5-LR	1818025	50	
MCV 1,5/ 6-GF-3,5-LR	1818038	50	
MCV 1,5/ 7-GF-3,5-LR	1818041	50	
MCV 1,5/ 8-GF-3,5-LR	1818054	50	
MCV 1,5/ 9-GF-3,5-LR	1818067	50	
MCV 1,5/10-GF-3,5-LR	1818070	50	
MCV 1,5/11-GF-3,5-LR	1818083	50	
MCV 1,5/12-GF-3,5-LR	1818096	50	
MCV 1,5/13-GF-3,5-LR	1818106	50	
MCV 1,5/14-GF-3,5-LR	1818119	50	
MCV 1,5/15-GF-3,5-LR	1818122	50	
MCV 1,5/16-GF-3,5-LR	1818135	50	
Pitch 3.81 mm, color: green			
MCV 1,5/ 2-GF-3,81-LR	1818180	50	
MCV 1,5/ 3-GF-3,81-LR	1818193	50	
MCV 1,5/ 4-GF-3,81-LR	1818203	50	
MCV 1,5/ 5-GF-3,81-LR	1818216	50	
MCV 1,5/ 6-GF-3,81-LR	1818229	50	
MCV 1,5/7-GF-3,81-LR	1818232	50	
MCV 1,5/8-GF-3,81-LR	1818245	50	
MCV 1,5/ 9-GF-3,81-LR	1818258	50	
MCV 1,5/10-GF-3,81-LR	1818261	50	
MCV 1,5/11-GF-3,81-LR	1818274	50	
MCV 1,5/12-GF-3,81-LR	1818287	50	
MCV 1,5/13-GF-3,81-LR	1818290	50	
MCV 1,5/14-GF-3,81-LR	1818300	50	
MCV 1,5/15-GF-3,81-LR	1818313	50	
MCV 1,5/16-GF-3,81-LR	1818326	50	

Single-level header for the wave soldering processes



- Low-profile pin strips with compact pitches
- Plug-in direction at an angle of 45° to the **PCB**
- 45° angle makes it easier to plug in the connector in restricted spaces
- Versions with and without a threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

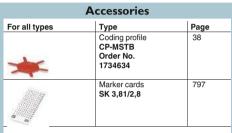
COMBICON select

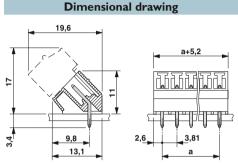
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

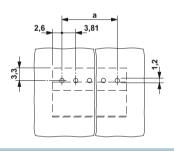


Plug-in direction 45° to the PCB

€ .**\$1** us € CB.







Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	8	
	160	
	3.81	
III/3	III/2	11/2
160	160	320
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
-	-	-
В	С	D
300	-	300
8	-	8
-	-	-
	PA/I	
	V0	
1.2	18,0 x 8,0 \	nm

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

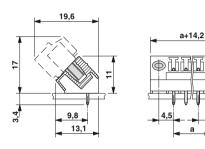
Ordering data			
	Туре	Order No.	Pcs. / Pkt.
	Pitch 3.81 mm, color: green		
	SMC 1,5/ 2-G-3,81	1827279	50
	SMC 1,5/ 3-G-3,81	1827282	50
	SMC 1,5/ 4-G-3,81	1827295	50
	SMC 1,5/ 5-G-3,81	1827305	50
	SMC 1,5/ 6-G-3,81	1827318	50
	SMC 1,5/7-G-3,81	1827321	50
	SMC 1,5/ 8-G-3,81	1827334	50
	SMC 1,5/ 9-G-3,81	1827347	50
	SMC 1,5/10-G-3,81	1827350	50
	SMC 1,5/11-G-3,81	1827363	50
	SMC 1,5/12-G-3,81	1827376	50
	SMC 1,5/13-G-3,81	1827389	50
	SMC 1,5/14-G-3,81	1827392	50
	SMC 1,5/15-G-3,81	1827402	50
	SMC 1,5/16-G-3,81	1827415	50

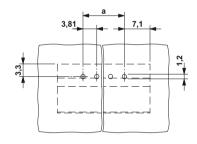


With threaded flange, plug-in direction $45^{\circ}\ to$ the PCB

(CB scheme

Dimensional drawing





Ordering data			
	Туре	Order No.	Pcs. / Pkt.
	Pitch 3.81 mm, color: green		
	SMC 1,5/ 2-GF-3,81	1827428	50
	SMC 1,5/ 3-GF-3,81	1827431	50
	SMC 1,5/ 4-GF-3,81	1827444	50
	SMC 1,5/ 5-GF-3,81	1827457	50
	SMC 1,5/ 6-GF-3,81	1827460	50
	SMC 1,5/ 7-GF-3,81	1827473	50
	SMC 1,5/ 8-GF-3,81	1827486	50
	SMC 1,5/ 9-GF-3,81	1827499	50
	SMC 1,5/10-GF-3,81	1827509	50
	SMC 1,5/11-GF-3,81	1827512	50
	SMC 1,5/12-GF-3,81	1827525	50
	SMC 1,5/13-GF-3,81	1827538	50
	SMC 1,5/14-GF-3,81	1827541	50
	SMC 1,5/15-GF-3,81	1827554	50
	SMC 1,5/16-GF-3,81	1827567	50

Single-level header for the wave soldering processes



- Space-saving header
- Pin strip perpendicular (orthogonal) to the PCB
- Pitch: 3.81 mm

MCO 1,5/...-GL

- The PCB is to the left of the header

MCO 1,5/...-GR

- The PCB is to the right of the header

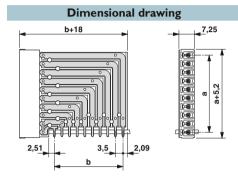
Notes: In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under Dimension b: 3-pos. = 7.00 mm 4-pos. = 10.50 mm 5-pos. = 14.00 mm 6-pos. = 17.50 mm 7-pos. = 21.00 mm 8-pos. = 24.50 mm 9-pos. = 28.00 mm

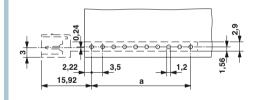
10-pos. = 31.50 mm



Pin strip leading off at a right angle "PCB on the left"

CB US CB





,	Accessories	
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	8	
	160	
	0.04	
	3.81	
III/3	III/2	II / 2
125	160	200
2.5	2.5	2.5
2.3 B	C C	2.3 D
300	-	300
8		8
	-	-
В	С	D
	-	-
-	-	-
Р	A (PBT) / III	la
	V0	
1/	0,9 x 0,32 r	nm

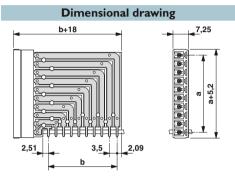
Type		
Pitch 3.81	Dim. a [mm]	No. of pos.
MCO 1,5/	7.62	3
MCO 1,5/	11.43	4
MCO 1,5/	15.24	5
MCO 1,5/	19.05	6
MCO 1,5/	22.86	7
MCO 1,5/	26.67	8
MCO 1,5/	30.48	9
MCO 1,5/1	34.29	10

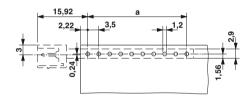
Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.81 mm, color: green				
MCO 1,5/ 3-GL-3,81	1861730	50		
MCO 1,5/ 4-GL-3,81	1861743	50		
MCO 1,5/ 5-GL-3,81	1861756	50		
MCO 1,5/ 6-GL-3,81	1861769	50		
MCO 1,5/ 7-GL-3,81	1861772	50		
MCO 1,5/ 8-GL-3,81	1861785	50		
MCO 1,5/ 9-GL-3,81	1861798	50		
MCO 1,5/10-GL-3,81	1861808	50		



Pin strip leading off at a right angle "PCB on the right"







Ordering date	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: green		
MCO 1,5/ 3-GR-3,81	1861659	50
MCO 1,5/ 4-GR-3,81	1861662	50
MCO 1,5/ 5-GR-3,81	1861675	50
MCO 1,5/ 6-GR-3,81	1861688	50
MCO 1,5/ 7-GR-3,81	1861691	50
MCO 1,5/ 8-GR-3,81	1861701	50
MCO 1,5/ 9-GR-3,81	1861714	50
MCO 1,5/10-GR-3,81	1861727	50

Orthogonal headers for wave soldering processes



- Headers for ME and ME MAX electronic housings
- Plug-in direction orthogonal to the PCB
- Pitch: 3.5 mm
- "Left" and "right" design
- Number of positions between 3 and 5

Notes:

For all ty

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select
You will find the possible plug-in connector combinations in COM-BICON select at: www.phoenixcontact.net/products or starting on page 182.



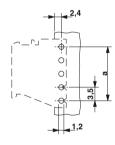
Pin strip leading off at a right angle "left"

PLus 🕑

13,25

Accessories			Dimensional drawing
ypes	Туре	Page	
K	Coding section CR-MSTBO G1 Order No. 2199618	38	19,55 b

Drilling diagram



Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current	[A]		8	
Rated insulation voltage for pollution degree 2	[V]		160	
Pitch	[mm]	-	3.5	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group			PA/I	

[mm]

1.2 / 0,8 x 0,8 mm

Туре		
COMBICON	Dim. a [mm]	No. of pos.
MCO 1,5/ 3-0	7.00	3
MCO 1,5/ 4-0	10.50	4
MCO 1,5/ 5-0	14.00	5

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
COMBICON headers, left, pitch: 3.5 mm,color: light gray				
MCO 1,5/ 3-G1L-3,5 KMGY	2278319	50		
MCO 1,5/ 4-G1L-3,5 KMGY	2278364	50		
MCO 1,5/ 5-G1L-3,5 KMGY	2278380	50		

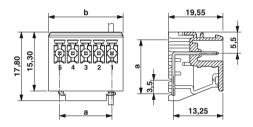
Inflammability class according to UL 94 Drill hole diameter / pin dimensions



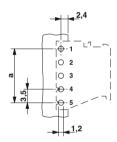
Pin strip leading off at a right angle

D 20 LP2

Dimensional drawing



Drilling diagram



Ordering data Order No. Pcs. / Pkt. Type Order No. Pcs./COMBICON headers, right, pitch: 3.5 mm, color: light gray MCO 1,5/ 3-G1R-3,5 KMGY 2278322 MCO 1,5/ 4-G1R-3,5 KMGY 2278377 50 MCO 1,5/ 5-G1R-3,5 KMGY 2278351 50

Double-level header for the wave soldering processes



- Low-profile double-level headers with high contact density
- Plug-in direction parallel to the PCB
- Versions with and without a threaded flange

MCD 1,5/...-G-3,81

- With offset levels
- Improved view and accessibility to the lower level

MCD 1,5/...-G1-3,81

- Without a level offset, for flush installation in the front of the devices

Notes:

For all

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

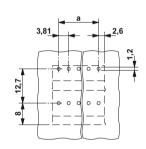
COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.



With offset levels

Accessories		Dimensional	drawing	
I types	Type Coding profile CP-MSTB Order No. 1734634 Marker cards SK 3,81/2,8	Page 38 797	31,4	a+5,2
			8 12,7 m	2,0 = 3,01



Technical data				
recinicai data				
Technical data in accordance to IEC / DIN VDE				
Rated current	[A]		8	
Rated insulation voltage for pollution degree 2	[V]		160	
Pitch	[mm]		3.81	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II /
Rated insulation voltage	[V]	160	160	25
Rated surge voltage	[kV]	2.5	2.5	2.
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	300	-	30
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	300	-	30
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group			PA/I	
Inflammability class according to UL 94			V0	
Drill hole diameter / pin dimensions	[mm]	1.2	/ 0,8 x 0,8 ı	mm

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 3.81 mm, color: green		
2	3.81	MCD 1,5/ 2-G-3,81	1829950	50
3	7.62	MCD 1,5/ 3-G-3,81	1829963	50
4	11.43	MCD 1,5/ 4-G-3,81	1829976	50
5	15.24	MCD 1,5/ 5-G-3,81	1829989	50
6	19.05	MCD 1,5/ 6-G-3,81	1829992	50
7	22.86	MCD 1,5/ 7-G-3,81	1830004	50
8	26.67	MCD 1,5/ 8-G-3,81	1830017	50
9	30.48	MCD 1,5/ 9-G-3,81	1830020	50
10	34.29	MCD 1,5/10-G-3,81	1830033	50
11	38.10	MCD 1,5/11-G-3,81	1830046	50
12	41.91	MCD 1,5/12-G-3,81	1830059	50
13	45.72	MCD 1,5/13-G-3,81	1830062	50
14	49.53	MCD 1,5/14-G-3,81	1830075	50
15	53.34	MCD 1,5/15-G-3,81	1830088	50
16	57.15	MCD 1,5/16-G-3,81	1830091	50







With offset levels and threaded flange

Without offset levels

Without offset levels, with threaded flange

(P. SAL) us (C. Angle C.B.

Type

MCD 1,5/11-GF-3,81

MCD 1,5/12-GF-3,81

MCD 1,5/13-GF-3,81

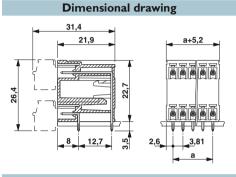
MCD 1,5/14-GF-3,81

MCD 1,5/15-GF-3,81

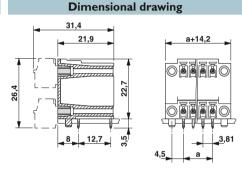
MCD 1,5/16-GF-3,81

Dimensional drawing 26,4





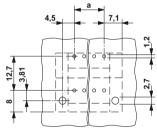
OR CB. Scheme

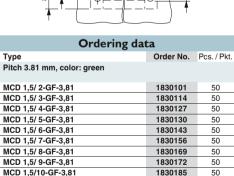


Drilling diagram

Drilling diagram

Drilling diagram





1830198

1830208

1830211

1830224

1830237

1830240

50

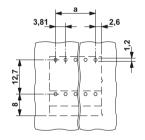
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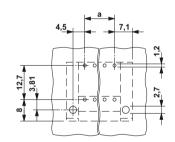
50

50

50



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 3.81 mm, color: green				
MCD 1,5/ 2-G1-3,81	1843075	50		
MCD 1,5/ 3-G1-3,81	1843088	50		
MCD 1,5/ 4-G1-3,81	1843091	50		
MCD 1,5/ 5-G1-3,81	1843101	50		
MCD 1,5/ 6-G1-3,81	1843114	50		
MCD 1,5/ 7-G1-3,81	1843127	50		
MCD 1,5/ 8-G1-3,81	1843130	50		
MCD 1,5/ 9-G1-3,81	1843143	50		
MCD 1,5/10-G1-3,81	1843156	50		
MCD 1,5/11-G1-3,81	1843169	50		
MCD 1,5/12-G1-3,81	1843172	50		
MCD 1,5/13-G1-3,81	1843185	50		
MCD 1,5/14-G1-3,81	1843198	50		
MCD 1,5/15-G1-3,81	1843208	50		
MCD 1,5/16-G1-3,81	1843211	50		



	Ordering data		
t.	Туре	Order No.	Pcs. / Pkt.
	Pitch 3.81 mm, color: green		
	MCD 1,5/ 2-G1F-3,81	1842911	50
	MCD 1,5/ 3-G1F-3,81	1842924	50
	MCD 1,5/ 4-G1F-3,81	1842937	50
	MCD 1,5/ 5-G1F-3,81	1842940	50
	MCD 1,5/ 6-G1F-3,81	1842953	50
	MCD 1,5/ 7-G1F-3,81	1842966	50
	MCD 1,5/ 8-G1F-3,81	1842979	50
	MCD 1,5/ 9-G1F-3,81	1842982	50
	MCD 1,5/10-G1F-3,81	1842995	50
	MCD 1,5/11-G1F-3,81	1843004	50
	MCD 1,5/12-G1F-3,81	1843017	50
	MCD 1,5/13-G1F-3,81	1843033	50
	MCD 1,5/14-G1F-3,81	1843046	50
	MCD 1,5/15-G1F-3,81	1843059	50
	MCD 1,5/16-G1F-3,81	1843062	50

Double-level header for the wave soldering processes



- Low-profile double-level headers with high contact density
- Plug-in direction vertical to the PCB
- Versions with and without a threaded flange

MCDV 1,5/...-G-3,81

- With offset levels
- Improved view and accessibility to the lower level

MCDV 1,5/...-G1-3,81

- Without a level offset, for flush installation in the front of the devices

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.



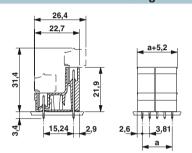
With offset levels

Accessories

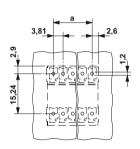
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
77	Marker cards SK 3,81/2,8	797

€ .**\$1** us € CB.

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	8		
	160		
	3.81		
III/3	III/2	II / 2	
160	160	250	
2.5	2.5	2.5	
В	С	D	
300	-	300	
8	-	8	
-	-	-	
В	С	D	
300	-	300	
8	-	8	
-	-	-	
PA/I			
V0			
1.2 / 0,8 x 0,8 mm			

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data			
	Туре	Order No.	Pcs. / Pkt
	Pitch 3.81 mm, color: green		
	MCDV 1,5/ 2-G-3,81	1830402	50
	MCDV 1,5/ 3-G-3,81	1830415	50
	MCDV 1,5/ 4-G-3,81	1830428	50
	MCDV 1,5/ 5-G-3,81	1830431	50
	MCDV 1,5/ 6-G-3,81	1830444	50
	MCDV 1,5/ 7-G-3,81	1830457	50
	MCDV 1,5/ 8-G-3,81	1830460	50
	MCDV 1,5/ 9-G-3,81	1830473	50
	MCDV 1,5/10-G-3,81	1830486	50
	MCDV 1,5/11-G-3,81	1830499	50
	MCDV 1,5/12-G-3,81	1830509	50
	MCDV 1,5/13-G-3,81	1830512	50
	MCDV 1,5/14-G-3,81	1830525	50
	MCDV 1,5/15-G-3,81	1830538	50
	MCDV 1,5/16-G-3,81	1830541	50



With offset levels and threaded flange



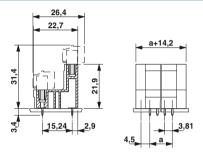
Without offset levels



Without offset levels, with threaded flange

(P. SAL) us (C. Angle C.B.

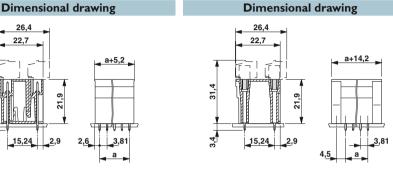
Dimensional drawing



31,4

(cal us PC A CB

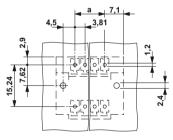




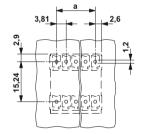
Drilling diagram

Drilling diagram

Drilling diagram





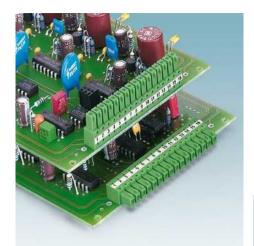


Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: green		
MCDV 1,5/ 2-G1-3,81	1847725	50
MCDV 1,5/ 3-G1-3,81	1847738	50
MCDV 1,5/ 4-G1-3,81	1847741	50
MCDV 1,5/ 5-G1-3,81	1847754	50
MCDV 1,5/ 6-G1-3,81	1847767	50
MCDV 1,5/ 7-G1-3,81	1847783	50
MCDV 1,5/ 8-G1-3,81	1847796	50
MCDV 1,5/ 9-G1-3,81	1847806	50
MCDV 1,5/10-G1-3,81	1847819	50
MCDV 1,5/11-G1-3,81	1847822	50
MCDV 1,5/12-G1-3,81	1847835	50
MCDV 1,5/13-G1-3,81	1847848	50
MCDV 1,5/14-G1-3,81	1847851	50
MCDV 1,5/15-G1-3,81	1847864	50
MCDV 1.5/16-G1-3.81	1847877	50

	3,81 7,1	
24 2,9		1,2
15,24		

	Ordering da	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	Pitch 3.81 mm, color: green		
	MCDV 1,5/ 2-G1F-3,81	1842762	50
	MCDV 1,5/ 3-G1F-3,81	1842775	50
	MCDV 1,5/ 4-G1F-3,81	1842788	50
	MCDV 1,5/ 5-G1F-3,81	1842791	50
	MCDV 1,5/ 6-G1F-3,81	1842801	50
	MCDV 1,5/ 7-G1F-3,81	1842814	50
	MCDV 1,5/ 8-G1F-3,81	1842827	50
_	MCDV 1,5/ 9-G1F-3,81	1842830	50
	MCDV 1,5/10-G1F-3,81	1842843	50
	MCDV 1,5/11-G1F-3,81	1842856	50
	MCDV 1,5/12-G1F-3,81	1842869	50
	MCDV 1,5/13-G1F-3,81	1842872	50
	MCDV 1,5/14-G1F-3,81	1842885	50
_	MCDV 1,5/15-G1F-3,81	1842898	50
	MCDV 1,5/16-G1F-3,81	1842908	50

Inverted header for the wave soldering processes



- Use in contact protected applications
- Plug-in direction horizontal and vertical to the PCB
- Combination with MC 1,5 pin strips for primary/secondary/PCB connection
- Clear separation of PCB inputs/outputs
- Individual position coding by removing the coding tab and by connecting the coding profile to the counterpart

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

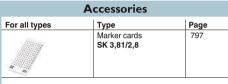
COMBICON select

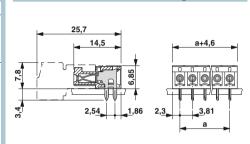
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

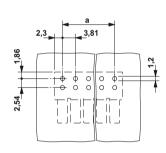


Plug-in direction parallel to the PCB

CB CB **Dimensional drawing**







Trabulas data	
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

8 160 3.81 /3 /2 /2 160 160 320 2.5 2.5 2.5 B C D 300 - 300 8 - 8 B C D				
3.81 /3 /2 /2 160 160 320 2.5 2.5 2.5 300 - 300 8 - - B				
3.81 /3 /2 /2 160 160 320 2.5 2.5 2.5 300 - 300 8 - - B				
3.81 /3 /2 /2 160 160 320 2.5 2.5 2.5 B C D 300 - 300 8 - 8 B C D				
III / 3		160		
III / 3				
160 160 320 2.5 2.5 2.5 B C D 300 - 300 8 - 8 B C D		3.81		
160 160 320 2.5 2.5 2.5 B C D 300 - 300 8 - 8 B C D				
2.5 2.5 2.5 B C D 300 - 300 8 - 8 B B C D 				
B C D 300 - 300 8 - 8 B C D	160	160		
300 - 300 8 - 8 B C D 	2.5	2.5	2.5	
8 - 8 	В	С	D	
B C D	300	-	300	
B C D	8	-	8	
	-		-	
	В	С	D	
	-	-	-	
	-	-	-	
DA //	-	-	-	
B 4 / 1				
PA/I				
V0				
1.2 / 0,8 x 0,8 mm				

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

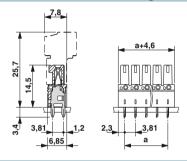
Ordering da	ta	
Туре	Order No.	Pcs. / Pkt
Pitch 3.81 mm, color: green		
IMC 1,5/ 2-G-3,81	1862577	50
IMC 1,5/ 3-G-3,81	1862580	50
IMC 1,5/ 4-G-3,81	1862593	50
IMC 1,5/ 5-G-3,81	1862603	50
IMC 1,5/ 6-G-3,81	1862616	50
IMC 1,5/ 7-G-3,81	1862629	50
IMC 1,5/ 8-G-3,81	1862632	50
IMC 1,5/ 9-G-3,81	1862645	50
IMC 1,5/10-G-3,81	1862658	50
IMC 1,5/11-G-3,81	1862661	50
IMC 1,5/12-G-3,81	1862674	50
IMC 1,5/13-G-3,81	1862687	50
IMC 1,5/14-G-3,81	1862690	50
IMC 1,5/15-G-3,81	1862700	50
IMC 1,5/16-G-3,81	1862713	50

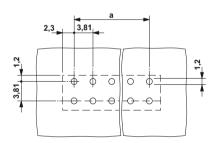


Plug-in direction vertical to the PCB



Dimensional drawing





Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: green			
IMCV 1,5/ 2-G-3,81	1875425	50	
IMCV 1,5/ 3-G-3,81	1875438	50	
IMCV 1,5/ 4-G-3,81	1875441	50	
IMCV 1,5/ 5-G-3,81	1875454	50	
IMCV 1,5/ 6-G-3,81	1875467	50	
IMCV 1,5/ 7-G-3,81	1875470	50	
IMCV 1,5/ 8-G-3,81	1875483	50	
IMCV 1,5/ 9-G-3,81	1875496	50	
IMCV 1,5/10-G-3,81	1875506	50	
IMCV 1,5/11-G-3,81	1875519	50	
IMCV 1,5/12-G-3,81	1875522	50	
IMCV 1,5/13-G-3,81	1875535	50	
IMCV 1,5/14-G-3,81	1875548	50	
IMCV 1,5/15-G-3,81	1875551	50	
IMCV 1,5/16-G-3,81	1875564	50	

Header for panel feed-throughs



- Header for assembly in a device/housing
- Outer plug-in connection for corresponding connectors with 3.81 mm pitch
- Internal optional solder or 2.8 mm slipon connection
- Separate screw connection with the device/housing wall

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

Sheet metal cutout dimensions b and c, refer to page 838.

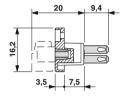


With threaded flange, with solder or slip-on connection for housing walls 0.5 to 4 mm thick





Dimensional drawing



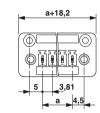
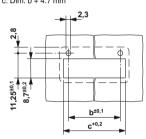


Plate cutout

Dimension b: 6.19 mm + (no. of pos. x 3.81 mm) Dimension c: Dim. b + 4.7 mm



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Slip-on connection (DIN 46249-1)	[A]/[mm]
<u> </u>	

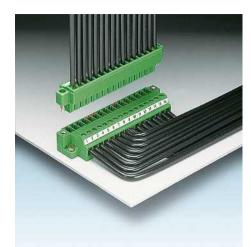
	8/1.5	
	160	
	3.81	
III/3	III/2	II / 2
160	160	320
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
-	-	-
В	С	D
150	-	150
8	-	8
28 - 16	-	28 - 16
	PA/I	
	V0	

- / 2,8 x 0,8 mm

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data			
Туре	Order No.	Pcs. / Pkt	
Pitch 3.81 mm, color: green			
DFK-MC 1,5/ 2-GF-3,81	1829345	50	
DFK-MC 1,5/ 3-GF-3,81	1829358	50	
DFK-MC 1,5/ 4-GF-3,81	1829361	50	
DFK-MC 1,5/ 5-GF-3,81	1829374	50	
DFK-MC 1,5/ 6-GF-3,81	1829387	50	
DFK-MC 1,5/ 7-GF-3,81	1829390	50	
DFK-MC 1,5/ 8-GF-3,81	1827596	50	
DFK-MC 1,5/ 9-GF-3,81	1829400	50	
DFK-MC 1,5/10-GF-3,81	1829413	50	
DFK-MC 1,5/11-GF-3,81	1829426	50	
DFK-MC 1,5/12-GF-3,81	1829439	50	
DFK-MC 1,5/13-GF-3,81	1829442	50	
DFK-MC 1,5/14-GF-3,81	1829455	50	
DFK-MC 1,5/15-GF-3,81	1829468	50	
DFK-MC 1,5/16-GF-3,81	1829471	50	

Header for direct mounting



- Direct plug-in block with mounting flanges for screw connection on mounting plates or unit housings
- Shock-proof connection block in combination with MC plug-in system
- Design with a threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

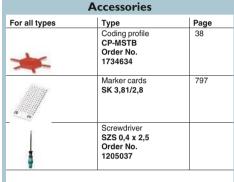
COMBICON select

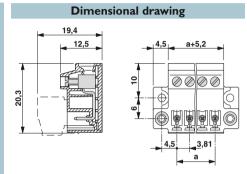
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

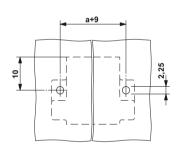


With threaded flange and flange for direct mounting

⊕ .**\$1** us € CB.







Technical data	ı
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	re [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
	al augus
Type of insulation material / insulation material Inflammability class according to UL 94	ai group

	8 / 1.5	
	160	
	3.81	
0.14 - 1.5	/ 0.14 - 1.5	5/28-16
	0.25 - 1.5	
	0.25 - 0.5	
	0.5 / 0.14	
	0.25 - 0.34	
	0.5 - 0.5	
III/3	III/2	II / 2
160	160	320
2.5	2.5	2.5
В	С	D
300	-	300
8	-	8
30 - 14		30 - 14
В	С	D
300	-	300
8	-	8
28 - 16	-	28 - 16
	-	
	7 M2	
	0.22 - 0.25	
	PA / I	<u>'</u>
	V0	
	٧U	-

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 3.81 mm, color: green			
MCVU 1,5/ 2-GFD-3,81	1833027	50	
MCVU 1,5/ 3-GFD-3,81	1833030	50	
MCVU 1,5/ 4-GFD-3,81	1833043	50	
MCVU 1,5/ 5-GFD-3,81	1833056	50	
MCVU 1,5/ 6-GFD-3,81	1833069	50	
MCVU 1,5/ 7-GFD-3,81	1833072	50	
MCVU 1,5/ 8-GFD-3,81	1833085	50	
MCVU 1,5/ 9-GFD-3,81	1833098	50	
MCVU 1,5/10-GFD-3,81	1833108	50	
MCVU 1,5/11-GFD-3,81	1833111	50	
MCVU 1,5/12-GFD-3,81	1833124	50	
MCVU 1,5/13-GFD-3,81	1833137	50	
MCVU 1,5/14-GFD-3,81	1833140	50	
MCVU 1,5/15-GFD-3,81	1833153	50	
MCVU 1,5/16-GFD-3,81	1833166	50	

Cable housings



- For MC or IMC plugs with and without flange, with 3.81 mm pitch
- Complete snap-locking of the two half shells of the cable housing
- Cable strain relief using cable binder or cable clamp
- Straight cable outlet for aligning multiple cable housings
- Easier plugging and unplugging processes
- Incl. cable binders and marker strips for all numbers of positions
- Incl. transparent label carriers from 6- to 16-pos.



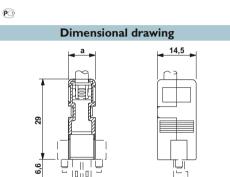
2- to 5-pos., for cable diameters up to 5 mm with 2-pos. housings, up to 8.5 mm with 3- to 5-pos. housings





For all types

Transparent marker carrier KGG-MC 1,5/DST Order No. 1839050



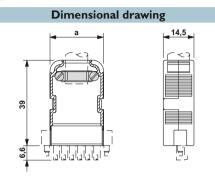
Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]		-/-	
Rated insulation voltage for pollution degree 2	[V]		-	
Pitch	[mm]		3.81	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group			ABS/I	
Inflammability class according to UL 94			HB	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 3.81 mm, color: green		
2	10.01	KGG-MC 1,5/ 2	1834343	10
3	13.82	KGG-MC 1,5/ 3	1834356	10
4	17.63	KGG-MC 1,5/ 4	1834369	10
5	21.44	KGG-MC 1,5/ 5	1834372	10
6	25.25			
7	29.09			
8	32.87			
9	36.68			
10	40.49			
11	44.30			
12	48.11			
13	51.92			
14	55.73			
15	59.54			
16	63.35			



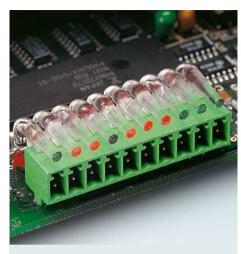
6- to 16-pos., for cable diameters of 4 - 11 mm





Ordering da	Ordering data				
Туре	Order No.	Pcs. / Pkt.			
Pitch 3.81 mm, color: green					
KGG-MC 1,5/6	1834385	10			
KGG-MC 1,5/ 7	1834398	10			
KGG-MC 1,5/ 8	1834408	10			
KGG-MC 1,5/ 9	1834411	10			
KGG-MC 1,5/10	1834424	10			
KGG-MC 1,5/11	1834437	10			
KGG-MC 1,5/12	1834440	10			
KGG-MC 1,5/13	1834453	10			
KGG-MC 1,5/14	1834466	10			
KGG-MC 1,5/15	1834479	10			
KGG-MC 1,5/16	1834482	10			

Fiber optics for headers



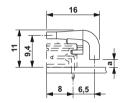
- "Bending" the light of the flat SMD LEDs by 90°. This is thus visible from the front
- Snap-locking on the back side of the standard MC header
- 10-pos., can be separated for small numbers of positions
- Pitch: 3.5 and 3.81 mm
- Distance of 1.5, 2.3 and 4.0 mm from the PCB for a possible use of all conventional SMD LEDs

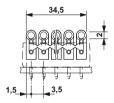


3.5 mm pitch, snapped onto the rear of the MC header



Dimensional drawing





Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]		-/-	
Rated insulation voltage for pollution degree 2	[V]		-	
Pitch	[mm]		3.5 / 3.81	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group			-/-	
Inflammability class according to UL 94			-	

		Ord
		Туре
lo. of pos.	Dim. a [mm]	Pitch 3.5 mm, color: Trans
10	1.50	MC 1,5/10-LWL 1,5-3,5
10	2.30	MC 1,5/10-LWL 2,3-3,5
10	4.00	MC 1,5/10-LWL 4-3,5

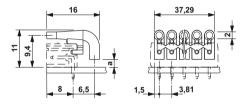
Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 3.5 mm, color: Transparent					
MC 1,5/10-LWL 1,5-3,5	1841161	50			
MC 1,5/10-LWL 2,3-3,5	1841187	50			
MC 1,5/10-LWL 4-3,5	1841200	50			



3.81 mm pitch, snapped onto the rear of the MC header



Dimensional drawing



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 3.81 mm, color: Transparent					
MC 1,5/10-LWL 1,5-3,81 1841174 50					
MC 1,5/10-LWL 2,3-3,81	1841190	50			
MC 1,5/10-LWL 4-3,81	1841213	50			

Plugs with screw connection, pitch 5.08 mm



- High dielectric strength up to 320 V in acc. with III/2
- Flat design of the MC 1,5 plug range
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange
- Individual position coding by removing the coding tab and connecting the coding profile to the header
- ST1 version with a plug-in zone with downward offset, locks flush with the lower edge of the housing

Technical data

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

2) CSA data for MC 1,5/...-ST(F)-5,08 on request.

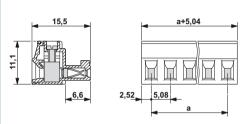


With connection area moved to the bottom

cal Cal

Accessories For all types Page Type Screwdriver SZS 0.4 x 2.5 1205037 Marker cards 797 SK 5,08/2,8

Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section [A] / [mm²] Rated insulation voltage for pollution degree 2 [V] Pitch [mm] Connection capacity $[\text{mm}^2]\,/\,[\text{mm}^2]\,/\,\text{AWG}$ Solid / stranded Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded [mm²] Stranded with ferrules without plastic sleeve [mm²] [mm²] Stranded with TWIN ferrule with plastic sleeve Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [V] Rated surge voltage [kV] Use Group Approval data (UL/CUL) Nominal voltage [V] Nominal current AWG Connection capacity AWG Approval data (CSA) Use Group Nominal voltage [V] Nominal current [A] Connection capacity AWG AWG General data

	81) / 1.5	
	320	
	5.08	
0.14 - 1.5	5 / 0.14 - 1.5	728 - 16
	0.25 - 1.5	
	0.25 - 0.5	
0.00	0 = / 0 00	. ==
0.08	- 0.5 / 0.08 -	0.75
-	0.25 - 0.34	
	0.5 - 0.5	
III / O	III. / O	11./0
1II / 3 250	III / 2 320	11 / 2 630
4	320	4
B	C	D D
300	C	300
8		8
30 - 14	-	30 - 14
B	С	D D
-	-	-
	-	
	7	
-	M2	
-	0.22 - 0.25	-
•	PA/I	
	V0	

[mm]

[Nm]

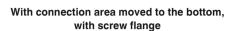
		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.08 mm pitch, color: green		
2	5.08	MC 1,5/ 2-ST1-5,08	1900772	50
3	10.16	MC 1,5/ 3-ST1-5,08	1900785	50
4	15.24	MC 1,5/ 4-ST1-5,08	1900798	50
5	20.32	MC 1,5/ 5-ST1-5,08	1900808	50
6	25.40	MC 1,5/ 6-ST1-5,08	1900811	50
7	30.48	MC 1,5/ 7-ST1-5,08	1900824	50
8	35.56	MC 1,5/ 8-ST1-5,08	1900837	50
9	40.64	MC 1,5/ 9-ST1-5,08	1900840	50
10	45.72	MC 1,5/10-ST1-5,08	1900853	50
11	50.80	MC 1,5/11-ST1-5,08	1900866	50
12	55.88	MC 1,5/12-ST1-5,08	1900879	50

Stripping length

Screw thread Tightening torque

Type of insulation material / insulation material group Inflammability class according to UL 94







Standard plug

Dimensional drawing



With screw flange

Dimensional drawing

CB CB

15,5

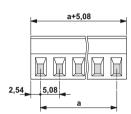
Dimensional drawing

Schem

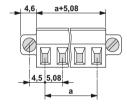
(F) LUS (C) LOE CB

a+5,04



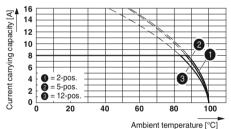




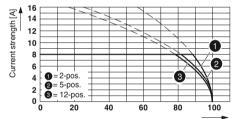


Representative derating curves of the above-mentioned plugs Type: MC 1,5/...-ST-5,08 with MC 1,5/...-G-5,08

Type: MC 1,5/...-ST1-5,08 with MC 1,5/...-G-5,08







Ambient temperature [°	C]
------------------------	----

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
MC 1,5/ 2-ST1F-5,08	1900882	50	
MC 1,5/ 3-ST1F-5,08	1900895	50	
MC 1,5/ 4-ST1F-5,08	1900905	50	
MC 1,5/ 5-ST1F-5,08	1900918	50	
MC 1,5/ 6-ST1F-5,08	1900921	50	
MC 1,5/ 7-ST1F-5,08	1900934	50	
MC 1,5/ 8-ST1F-5,08	1900947	50	
MC 1,5/ 9-ST1F-5,08	1900950	50	
MC 1,5/10-ST1F-5,08	1900963	50	
MC 1,5/11-ST1F-5,08	1900976	50	
MC 1,5/12-ST1F-5,08	1900989	50	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
MC 1,5/ 2-ST-5,08	1836079	50	
MC 1,5/ 3-ST-5,08	1836082	50	
MC 1,5/ 4-ST-5,08	1836095	50	
MC 1,5/ 5-ST-5,08	1836105	50	
MC 1,5/ 6-ST-5,08	1836118	50	
MC 1,5/ 7-ST-5,08	1836121	50	
MC 1,5/ 8-ST-5,08	1836134	50	
MC 1,5/ 9-ST-5,08	1836147	50	
MC 1,5/10-ST-5,08	1836150	50	
MC 1,5/11-ST-5,08	1836163	50	
MC 1,5/12-ST-5,08	1836176	50	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
MC 1,5/ 2-STF-5,08	1847356	50	
MC 1,5/ 3-STF-5,08	1847369	50	
MC 1,5/ 4-STF-5,08	1847372	50	
MC 1,5/ 5-STF-5,08	1847385	50	
MC 1,5/ 6-STF-5,08	1847398	50	
MC 1,5/ 7-STF-5,08	1847408	50	
MC 1,5/ 8-STF-5,08	1847411	50	
MC 1,5/ 9-STF-5,08	1847424	50	
MC 1,5/10-STF-5,08	1847437	50	
MC 1,5/11-STF-5,08	1847440	50	
MC 1,5/12-STF-5,08	1847453	50	

A header with a 5.08 mm pitch for wave soldering processes



- High dielectric strength up to 320 V in acc. with III/2
- Low-profile header
- Plug-in direction parallel and vertical to the PCB
- Versions with and without a threaded
- Individual position coding by inserting the coding profiles

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

Mounting screws for MCV 1,5/...-GF-5,08: sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C. Screw connection only permitted prior to soldering.

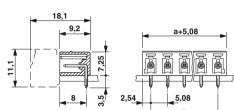
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 182.

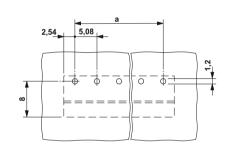


Plug-in direction parallel to the PCB

Dimensional drawing

Accessories For all types Туре Page Coding profile CP-MSTB 38 Order No. 1734634 Marker cards 797 SK 5,08/2,8





Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current	[A]			
Rated insulation voltage for pollution degree 2	[V]			
Pitch	[mm]			
Insulation coordination				
Surge voltage category / pollution degree				
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
Approval data (UL/CUL)	Use Group			
Nominal voltage	[V]			
Nominal current	[A]			
Connection capacity AWG	AWG			
Approval data (CSA)	Use Group			
Nominal voltage	[V]			
Nominal current	[A]			
Connection capacity AWG	AWG			
General data				
Type of insulation material / insulation material group				
Inflammability class according to UL 94				
Drill hole diameter / pin dimensions	[mm]			
·				

	8			
	320			
	5.08			
III/3	III/2	II / 2		
250	320	400		
4	4	4		
В	С	D		
300	-	300		
8	-	8		
-	-	-		
В	С	D		
300	-	300		
8	-	8		
-	-	-		
PBT / IIIa				
V0				
1.2	/ 0,8 x 0,8 i	mm		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data						
Туре	Order No.	Pcs. / Pkt.				
5.08 mm pitch, color: green						
MC 1,5/ 2-G-5,08	1836189	50				
MC 1,5/ 3-G-5,08	1836192	50				
MC 1,5/ 4-G-5,08	1836202	50				
MC 1,5/ 5-G-5,08	1836215	50				
MC 1,5/ 6-G-5,08	1836228	50				
MC 1,5/ 7-G-5,08	1836231	50				
MC 1,5/ 8-G-5,08	1836244	50				
MC 1,5/ 9-G-5,08	1836257	50				
MC 1,5/10-G-5,08	1836260	50				
MC 1,5/11-G-5,08	1836273	50				
MC 1,5/12-G-5,08	1836286	50				



Plug-in direction vertical to the PCB



With threaded flange, plug-in direction parallel to the PCB



With threaded flange, plug-in direction vertical to the PCB

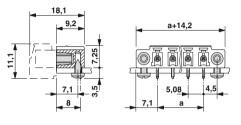
(P. SAL) US (C. LOE) CB. SCHEME

a+5,08 18,1

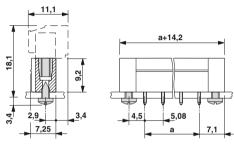
Dimensional drawing

CB CB





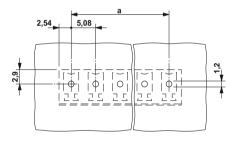
Dimensional drawing



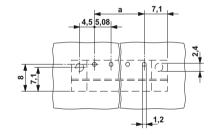
Drilling diagram

Drilling diagram

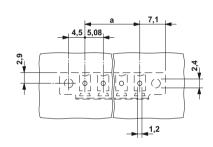
Drilling diagram







Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.08 mm pitch, color: green					
MC 1,5/ 2-GF-5,08	1847466	50			
MC 1,5/ 3-GF-5,08	1847479	50			
MC 1,5/ 4-GF-5,08	1847482	50			
MC 1,5/ 5-GF-5,08	1847495	50			
MC 1,5/ 6-GF-5,08	1847505	50			
MC 1,5/ 7-GF-5,08	1847518	50			
MC 1,5/ 8-GF-5,08	1847521	50			
MC 1,5/ 9-GF-5,08	1847534	50			
MC 1,5/10-GF-5,08	1847547	50			
MC 1,5/11-GF-5,08	1847550	50			
MC 1,5/12-GF-5,08	1847563	50			



	Ordering data						
t.	Туре	Order No.	Pcs. / Pkt				
	5.08 mm pitch, color: green						
	MCV 1,5/ 2-GF-5,08	1847615	50				
	MCV 1,5/ 3-GF-5,08	1847628	50				
	MCV 1,5/ 4-GF-5,08	1847631	50				
	MCV 1,5/ 5-GF-5,08	1847644	50				
	MCV 1,5/ 6-GF-5,08	1847657	50				
	MCV 1,5/ 7-GF-5,08	1847660	50				
	MCV 1,5/ 8-GF-5,08	1847673	50				
	MCV 1,5/ 9-GF-5,08	1847686	50				
	MCV 1,5/10-GF-5,08	1847699	50				
	MCV 1,5/11-GF-5,08	1847709	50				
	MCV 1,5/12-GF-5,08	1847712	50				

Special designs

SUBCON header with **MINI COMBICON connection**



- A combination of MINI-COMBICON plug-in connectors and the good shielding properties and the geometry of D-SUB plug-in connectors
- 3-pos. POWER SUBCON in the shape of the 9-pos. D-SUB
- 5-pos. POWER SUBCON in the shape of the 15-pos. D-SUB
- Can be used in a conventional D-SUB housing

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

When used in metal or metal-plated housing, SELV protection must be used with AC = 25 V and DC = 60 V.

For assembly cutout drawings see page 840.

Accessories				
For all types	Туре	Page		
For PSC 1,5/3-M				
*	Coding profile CP-MSTB Order No. 1734634	38		

rechnical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[manual
1 11011	[mm]
Connection capacity	21 / F21 / ANA/O
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	,
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	

Technical data

PSC 1,5/ 3-F			PSC 1,5/ 5-F		PSC 1,5/ 3-M			
	8 / 1.5			8 / 1.5			8	
	-			-			-	
	3.5		3.5			3.5		
	3.3		3.5			3.5		
0 14 - 1 5	/014-1	5 / 28 - 16	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16		5 / 28 - 16	-/-/-		
	0.25 - 1.5		0.111 1.10	0.25 - 1.5			-	
	0.25 - 1.5			0.25 - 1.5				
	-/-			-/-			-/-	
	-			-		-		
	-			-			-	
III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	II / 2
250			250			250		
_		_	_	_	_	_		_
В	С	D	В	С	D	В	С	D
300	-	300 8	300	-	300 8	300 8	•	300
8 30 - 14	-	30 - 14	30 - 14	-	30 - 14	- 8	-	8
30 - 14 B	С	30 - 14 D	30 - 14 B	C	D D	В	C	D
300	-	300	300	-	300	300	-	300
8	-	8	8	-	8	8	-	8
28 - 16	-	28 - 16	28 - 16	-	28 - 16		-	-
_5 10			_0 10					
	M2			M2				
-	0.22 - 0.25	5		0.22 - 0.25		-		
-	PA/I PA/I			PA/I				
V0 V0				V0				

No. of pos.	Dim. a [mm]
3	7.00
5	14.00



Shielded POWER SUBCON plug with screw connection and cover cap



Shielded POWER SUBCON plug with screw connection and cover cap

Dimensional drawing



Shielded POWER SUBCON header, for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread

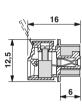
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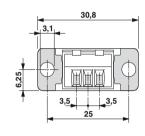
Dimensional drawing

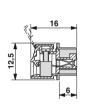


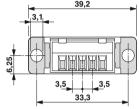
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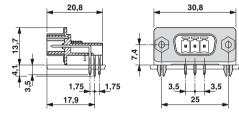
Dimensional drawing



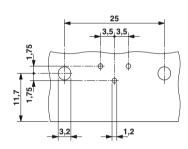








Drilling diagram



Ordering data							
Туре		Order No.	Pcs. / Pkt.				
Color: green							
PSC 1,5/ 3-F		1841909	50				

Ordering data							
Туре		Order No.	Pcs. / Pkt.				
Color: green							
PSC 1,5/ 5-F		1841912	50				

Ordering d	ata	
Туре	Order No.	Pcs. / Pkt.
Color: green		
PSC 1,5/ 3-M	1841857	50

Special designs

SUBCON header with **MINI COMBICON connection**



- A combination of MINI-COMBICON plug-in connectors and the good shielding properties and the geometry of D-SUB plug-in connectors
- 3-pos. POWER SUBCON in the shape of the 9-pos. D-SUB
- 5-pos. POWER SUBCON in the shape of the 15-pos. D-SUB
- Can be used in a conventional D-SUB housing
- PSC 1,5/...-M-PE version with leading, medium PE contact

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

When used in metal or metal-plated housing, SELV protection must be used with AC = 25 V and DC = 60 V.

For assembly cutout drawings see page 840.

Accessories						
For all types	Туре	Page				
*	Coding profile CP-MSTB Order No. 1734634	38				

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

	P	SC 1,5/ 5-N	1	PS	C 1,5/ 3-M-	PE	PS	PSC 1,5/ 5-M-PE		
		8			8			8		
		-			-			-		
		3.5			3.5			3.5		
	III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	11/2	
L	250	_		250	_		250			
	В	С	D	В	С	D	В	С	D	
	300	-	300	300	-	300	300	-	300	
	8	-	8	8	-	8	8	-	8	
	-	-	-	-	-	-	-	-	-	
	В	С	D	В	С	D	В	С	D	
	300	-	300	300	-	300	300	-	300	
	8	-	8	8	-	8	8	-	8	
_	-	-	-	-	-	-	-	-	-	
		PA/I			PA/I			PA/I		
		V0			V0			V0		
			_							

No. of pos.	Dim. a [mm]
3	7.00
5	14.00



Shielded POWER SUBCON header for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread



Shielded POWER SUBCON header for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread, with leading medium PE contact



Shielded POWER SUBCON header for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread, with leading medium PE contact

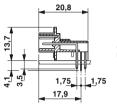
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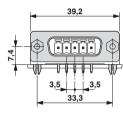
Dimensional drawing

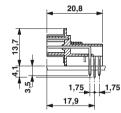


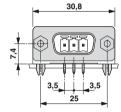
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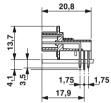
Dimensional drawing

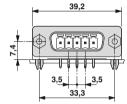








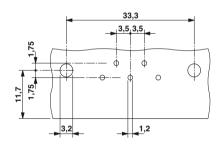


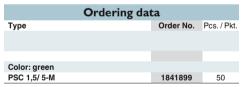


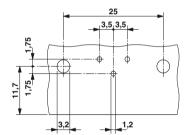
Drilling diagram

Drilling diagram

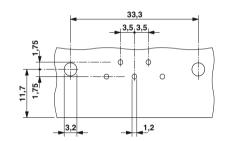
Drilling diagram



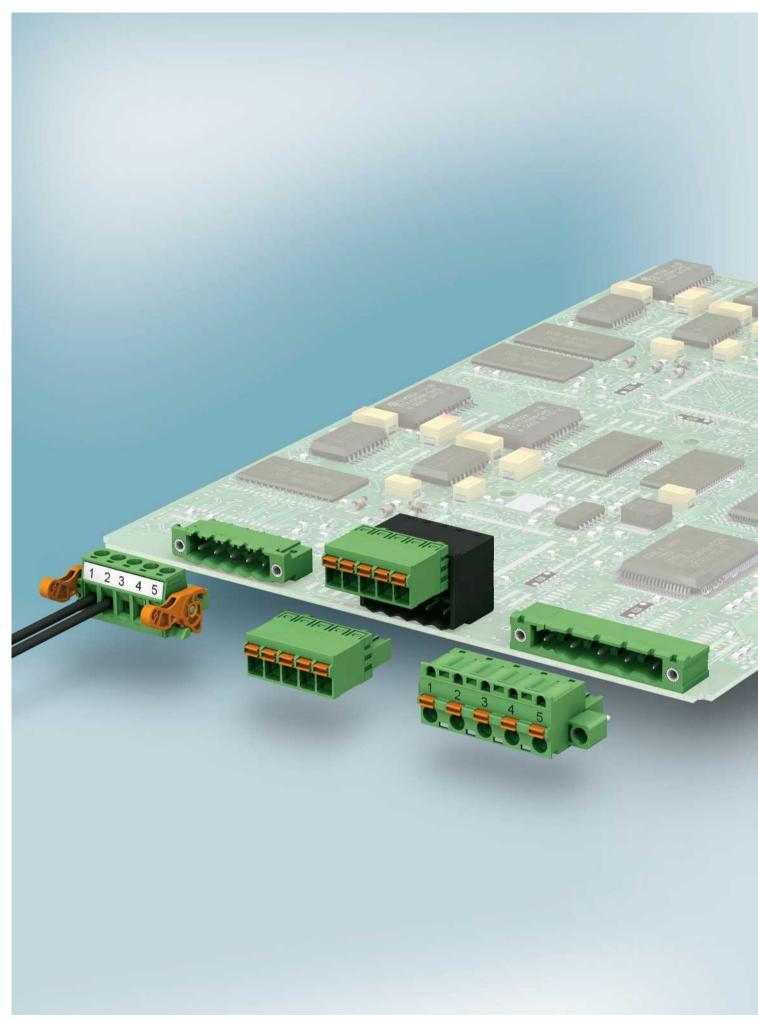




Ordering data						
Туре	Order No.	Pcs. / Pkt.				
Color: green						
PSC 1,5/ 3-M-PE	1848122	50				



Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Color: green		
PSC 1,5/ 5-M-PE	1848135	50



Plug-in connector systems with 5.0 to 7.62 mm pitch

COMBICON plug-in connectors have established themselves as the worldwide standard in industrial electronics.

A wide range of plugs and headers are available with 5.0/5.08 and 7.5/7.62 mm pitch.

Choose from screw, push-in spring, crimp or displacement connection for conductor contacting. Horizontal, vertical, and inverted plug and header designs enable plug-in PCB connections, PCB pairing with PCB or free-hanging connections.

Customer-specific versions complete the range of services. In addition to the standard green housing, a further 20 colors are available on request. The headers and plugs can be labeled individually for clear identification of each terminal point. For external device connections or harsh operating conditions such as vibrations, additional locking of the plug and header is advisable. This can be achieved with the particularly userfriendly Lock & Release connection, a selflocking flange connection or proven screw flanges.

When using several plug-in connections in an application, clear assignment of the plugs and headers is possible by means of individual coding.

General	256
COMBICON control cross-reference list	259
CLASSIC COMBICON plug-in connectors Pitch 5.0/5.08 mm up to 12 A	262
Plugs with screw connection	262
Inverted plugs with screw connection	272
Plugs with push-in spring connection	274
Inverted plugs with push-in spring connection	286
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Plugs with crimp connection	294
Inverted connectors with crimp connection	296
Headers for reflow processes	298
Headers for press-in technology	310
Headers for wave soldering processes	312
Inverted headers for wave soldering processes	332
CLASSIC COMBICON plug-in connectors Pitch 7.5/7.62 mm up to 12 A	334
Plugs with screw connection	334
Inverted plugs with screw connection	338
Plugs with push-in spring connection	340
Inverted plugs with push-in spring connection	341
Headers for wave soldering processes	342
Inverted headers for wave soldering processes	346
Special designs	348
Cable housing	348
Feed-through headers and assembly frames	350
Plug-in blocks for direct mounting	356
Plug-in blocks for DIN rail mounting	358
ZEC series - direct plug-in connectors	365
MINI-COMBICON for D-SUB	251
CLASSIC COMBICON plug-in connectors for the Ex area with 5.08 and 7.62 mm pitch	369
Plugs with screw connection with 5.08 mm pitch	369
Plugs with push-in spring connection	371
Inverted plugs with 5.08 mm pitch	373
Headers for wave soldering processes	369
Inverted headers for wave soldering processes	377
Plugs with screw connection with 7.62 mm pitch	379
Headers for wave soldering processes with 7.62 mm pitch	383

Classic plug-in connector with 5.0 to 7.62 mm pitch

General

Customer-specific standard plug-in connectors

Customer-specific requirements and requests can also be taken into account when producing plug-in connectors.

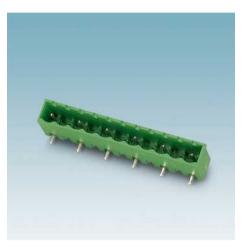
Usually plug-in connectors are available as partially assembled versions and in various colors.

Standard plug-in connectors with special pins

Individual processing of pin strips in the soldering process as well as the special environmental requirements are taken into consideration in many product ranges, which is why solder pins of different lengths and with different surfaces (e.g., tin or gold) are available for these pins.

Test connections

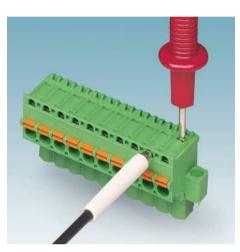
Test connections or touch connections are integrated in many plugs for measurement and test purposes.



Partially assembled pin strip



Version with tin-plated pins



Integrated test connections



Color options



Version with partially gold-plated pins

COMBICON plug-in connectors

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. When used as intended, they may not be connected or disconnected while they are live or under load.

Encoding

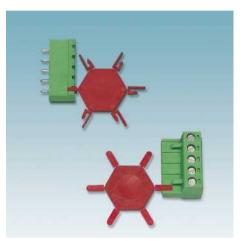
If plugs from a series with the same number of positions are used in an application, clear assignment of the plugs and headers is possible by means of individual coding. The coding can be implemented later on site or is provided in pre-assembled versions.

Bridges

In addition to conventional TWIN plug-in connectors, standard plug-in connectors can also be used for potential distribution by means of separate bridges. The fixed bridge is connected directly in the connection area, if necessary, with a supply conduc-

Marking

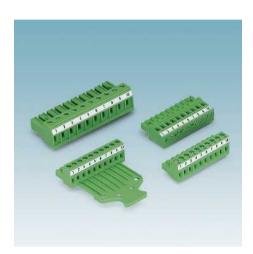
For marking individual terminal points, marker cards (SK strips with consecutive numbers 1 - 10, 11 - 20) are available with 2.5 to 7.62 mm pitch. Alternatively, the terminal blocks can also be supplied with individual marking.



Coding with coding section and coding profile



Separate fixed bridges



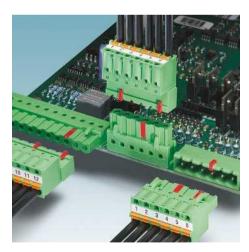
SK marker strips



Example for combination that cannot be plugged in



Separate fixed bridges



Coding/printing

Note:

Since the installation environment of the entire PCB cannot be influenced, the specified nominal voltage of all COMBICON plug-in connectors refers to the "as-delivered" state. For more detailed information on the dimensioning of air and creepage distances of PCBs, see page 849.

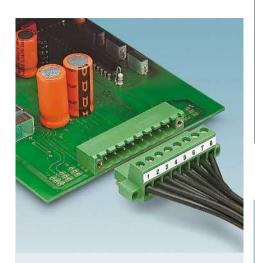
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COMBICON			Page 272	Page 273	Page 273	Page 287	Page 296	Page 298	Page 299	
plugs					288			300	301	
					5.0					
		Pitch	5.08	5.08	5.08	5.08	5.08	5.08	5.08	
	QC 1ST									
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	QC 1STF									
	Page 291	5.08		•					•	
	QC 1,5ST	5.0			•					
	Page 292									
Continue of the same of	QC 1,5STF	5.0								
	Page 293									
	MSTB(T)ST	5.0			•					
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ecuraceous ecuaciones	SMSTBSTF	5.0								
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Charles of Garage	FRONT-MSTBSTF	5.0			•		•			
	Page 269	5.08								
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	Page 271	5.08		•					•	
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	TVMSTBSTF	= 00								
	Page 271	5.08		•					•	
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	FKCNST	5.0	•		•					
	Page 278	5.08			•		•	•		
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Allegan Allen	MSTBCST(Z)									
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	MSTBCSTZF									
Managama	Page 295	5.08		•					•	
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	Page 295	5.08				•	•			
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CCAGRN CCVAGRN Page 299 301	CCDNG1(F) Page 306	MSTBOG1R(L) Page 308	EMSTBAG MSTB(A)(W)G Page 310 312	EMSTBGF MSTBGF Page 311 314	EMSTBVAG MSTBV(A)G MSTBGEH Page 311/317	EMSTBVGF MSTBVGF Page 344/311 317	SMSTB(A)G Page 318	MSTB(V)A G RN Page 313 316	MSTBOGR(L) Page 320
5.08	5.0 5.08	5.0	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.08
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CLASSIC COMBICON plugs	Туре		CCGFLR THR CCVGFLR THR THR Page 299 301	MDSTB(A)G MDSTBWG MDSTBV(A)G 326 / 329 / 320	MDSTBGF MDSTBVGF Page 327 331	MDSTBG1 MDSTBVG1 Page 329 329	DFK-MSTBG DFK-MSTB(V)AG Page 352 354	DFK-MSTBGF DFK-MSTB(V)AGF Page 353 355	MVSTBUGB MVSTBUGFB Page 357
				5.0	5.0	5.0	5.0	5.0	
	QC 1ST	Pitch	5.08	5.08	5.08	5.08	5.08	5.08	5.08
	Page 290 QC 1STF	5.08		•		•	•		•
	Page 291 QC 1,5ST	5.08 5.0	•	•	•	•	•	•	•
mann b	Page 292 QC 1,5STF	5.0			•			•	
627	Page 293 MSTB(T)ST	5.0		•		•	•		
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THE REAL PROPERTY.	MSTB(T)STF	5.0			•			•	_
	Page 265 SMSTBST	5.08 5.0	•	•	•	•	•	•	•
Forces Forces	Page 268	5.08		•		•	•		•
Contactory Countercost	SMSTBSTF	5.0			•			•	
	Page 269	5.08	•		•	_	_	•	•
	MVSTBR(W)ST Page 266	5.0 5.08		•		•	•		•
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	Page 271	5.08	•					•	
manna manna	TVMSTBST Page 271	5.08					•		
	TVMSTBSTF Page 271	5.08						•	
	FKC(S)ST	5.0	1 -	•		•	•		
STREET, STREET	Page 274	5.08		•		•	•		•
SERESSEE STREET	FKC(S)STF	5.0 5.08			•			•	•
	Page 274 MSTBSTLR	5.08	•		•			•	•
Sunuphun (Page 263 FKCSTLR	5.08	•						
	Page 275 FKCTST	5.0	-	•		•	•		
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	FKCNST Page 278	5.0 5.08					•		•
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COLUMN STREET	Page 280 FKCVR(W)STF	5.08 5.0					•	•	•
	Page 281	5.08	•					•	•
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(Carrie and)	Page 295 MSTBCSTZR	5.08	•		•			•	•
ininini	Page 295	5.08							
	IC(V)G								
	Page 332 IC(V)GF	5.08		•		•	•		•
	Page 333	5.08	•			l			

	CLASSII COMBICC headers	ON	-				December of	Control of the Contro	
CLASSIC COMBICON plugs	Туре		GIC ST Page 338	GIC STF Page 339	GIC STGF Page 339	GFKIC ST Page 341	GMSTBAG GMSTBAG Page 343/342	GMSTBGF GMSTBVGF Page 343 345	GMSTBVG GMSTBVAG Page 344
		Pitch	7.62	7.62	7.62	7.62	7.5 7.62	7.62	7.5 7.62
*******	GMSTBST Page 334	7.5 7.62	•	7.02	7.02	•	•	7.02	•
SANARA SAN	GMSTBSTF Page 335	7.62			•			•	
*************	FRONT-GMSTBST Page 335	7.62	•			•	•		•
EREBEREE .	FRONT-GMSTBSTF Page 335	7.62			•			•	
	GMVSTBR(W)ST Page 336	7.5 7.62	•			•	•		•
	GMVSTBR(W)STF Page 337	7.62			•			•	
The second	GFKCST Page 340	7.5 7.62	•			•	•		•
*******	GFKCSTF Page 341	7.62			•			•	
	GICG Page 346	7.62	•			•	•		•
	GICGF Page 347	7.62		•					
Control of the Contro	GICVG Page 347	7.62	•			•	•		•
	GICVGF Page 347	7.62		•					

Plug with a screw connection



- Standard plug-in system for 320 V (III/2)
- Plug-in direction parallel to the conductor axis
- Versions with screw flange, pull-out aid, and Lock & Release levers
- Individual position coding by inserting the coding profiles
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

MSTB 2,5/...-STZ

	Dimension b	Dimension c	
	[mm]	[mm]	
2- to 4-pos.	9.9	46	
5- to 8-pos.	19.9	46	
From 9-pos. onwards	39.9	55.6	

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



Plug with screw connection

€ .**\$1** us € CB.

Dimensional drawing

Note derating curves

(a+5,08)

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Α	ccessories	
For all types	Туре	Page
w	Marker cards SK 5/3,8 orSK 5,08/3,8	798
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
*	Coding profile CP-MSTB Order No. 1734634	38
	Insertion bridge EBP 5	829

Technical data	
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the sa	me cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material grou	р
Inflammability class according to UL 94	

	121) / 2.5	
	320	
	020	
	5/5.08	
0.2 - 2.5	5 / 0.2 - 2.5	/ 24 - 12
	0.25 - 2.5	
	0.25 - 2.5	
0.	2 - 1 / 0.2 -	1.5
	0.25 - 1	
	0.5 - 1.5	
III/3	III/2	11/2
250	320	630
4	4	4
В	С	D
300	-	300
15	-	15
30 - 12		30 - 12
В	С	D
300	-	300
10	-	10
28 - 12	-	28 - 12
	7	
	М3	
	M3 0.5 - 0.6	
	М3	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	MSTB 2,5/ 2-ST	1754449	50
3	10.00	MSTB 2,5/ 3-ST	1754465	50
4	15.00	MSTB 2,5/ 4-ST	1754481	50
5	20.00	MSTB 2,5/ 5-ST	1754504	50
6	25.00	MSTB 2,5/ 6-ST	1754520	50
7	30.00	MSTB 2,5/ 7-ST	1754546	50
8	35.00	MSTB 2,5/ 8-ST	1754562	50
9	40.00	MSTB 2,5/ 9-ST	1754588	50
10	45.00	MSTB 2,5/10-ST	1754601	50
11	50.00	MSTB 2,5/11-ST	1754627	50
12	55.00	MSTB 2,5/12-ST	1754643	50
13	60.00	MSTB 2,5/13-ST	1754669	50
14	65.00	MSTB 2,5/14-ST	1754685	50
15	70.00	MSTB 2,5/15-ST	1754708	50
16	75.00	MSTB 2,5/16-ST	1754724	50
		5.08 mm pitch, color: green		
2	5.08	MSTB 2,5/ 2-ST-5,08	1757019	50
3	10.16	MSTB 2,5/ 3-ST-5,08	1757022	50
4	15.24	MSTB 2,5/ 4-ST-5,08	1757035	50
5	20.32	MSTB 2,5/ 5-ST-5,08	1757048	50
6	25.40	MSTB 2,5/ 6-ST-5,08	1757051	50
7	30.48	MSTB 2,5/ 7-ST-5,08	1757064	50
8	35.56	MSTB 2,5/ 8-ST-5,08	1757077	50
9	40.64	MSTB 2,5/ 9-ST-5,08	1757080	50
10	45.72	MSTB 2,5/10-ST-5,08	1757093	50
11	50.80	MSTB 2,5/11-ST-5,08	1757103	50
12	55.88	MSTB 2,5/12-ST-5,08	1757116	50
13	60.96	MSTB 2,5/13-ST-5,08	1757129	50
14	66.04	MSTB 2,5/14-ST-5,08	1757132	50
15	71.12	MSTB 2,5/15-ST-5,08	1757145	50
16	76.20	MSTB 2,5/16-ST-5,08	1757158	50





With screw flange



With pull-out aid



With Lock & Release levers for locking and releasing

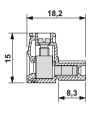


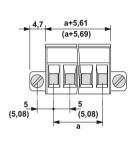
Dimensional drawing

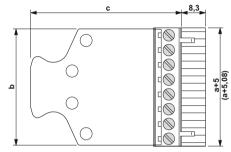


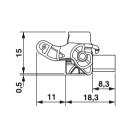
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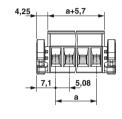
Dimensional drawing





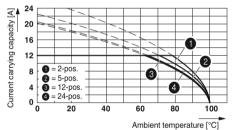






Representative derating curves of the above-mentioned plugs

Type: MSTB 2,5/..-ST(-5,08) with MSTBA 2,5/...-G(-5,08)

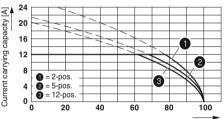




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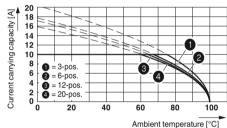
50

Type: MSTB 2,5/...-5,08 with CC 2,5/...-G-5,08 P26THR



Ambient temperature [°C]

Type: MSTB 2,5/..-ST with MDSTB 2,5/...-G1



Ordering d	ata	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5/ 2-STF	1786831	50
MSTB 2,5/ 3-STF	1786844	50
MSTB 2,5/ 4-STF	1786857	50
MSTB 2,5/ 5-STF	1786860	50
MSTB 2,5/ 6-STF	1786873	50
MSTB 2,5/ 7-STF	1786886	50
MSTB 2,5/ 8-STF	1786899	50
MSTB 2,5/ 9-STF	1786909	50
MSTB 2,5/10-STF	1786912	50
MSTB 2,5/11-STF	1786925	50
MSTB 2,5/12-STF	1786938	50
MSTB 2,5/13-STF	1786941	50
MSTB 2,5/14-STF	1786954	50
MSTB 2,5/15-STF	1786967	50
MSTB 2,5/16-STF	1786970	50
5.08 mm pitch, color: green		
MSTB 2,5/ 2-STF-5,08	1777989	50
MSTB 2,5/ 3-STF-5,08	1777992	50
MSTB 2,5/ 4-STF-5,08	1778001	50
MSTB 2,5/ 5-STF-5,08	1778014	50
MSTB 2,5/ 6-STF-5,08	1778027	50
MSTB 2,5/ 7-STF-5,08	1778030	50
MSTB 2,5/ 8-STF-5,08	1778043	50
MSTB 2,5/ 9-STF-5,08	1778056	50
MSTB 2,5/10-STF-5,08	1778069	50
MSTB 2,5/11-STF-5,08	1778072	50
MSTB 2,5/12-STF-5,08	1778085	50
MSTB 2,5/13-STF-5,08	1778098	50
MSTB 2,5/14-STF-5,08	1778108	50
MSTB 2.5/15-STF-5.08	1778111	50

MSTB 2,5/16-STF-5,08

Ordering da	ıta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5/ 4-STZ	1739114	50
MSTB 2,5/ 8-STZ	1758982	50
MSTB 2,5/ 9-STZ	1758995	50
MSTB 2,5/10-STZ	1759004	50
MSTB 2,5/11-STZ	1759347	50
MSTB 2,5/12-STZ MSTB 2,5/13-STZ	1759350 1759363	50 50
MSTB 2.5/14-STZ	1759363	50
MSTB 2,5/14-312	1759370	50
MSTB 2,5/16-STZ	1759392	50
5.08 mm pitch, color: green		- 00
MSTB 2,5/ 2-STZ-5,08	1709791	50
MSTB 2,5/ 3-STZ-5,08	1776168	50
MSTB 2,5/ 4-STZ-5,08	1776155	50
MSTB 2,5/ 5-STZ-5,08	1776142	50
MSTB 2,5/ 6-STZ-5,08	1776126	50
MSTB 2,5/ 7-STZ-5,08	1776113	50
MSTB 2,5/ 8-STZ-5,08	1764235	50
MSTB 2,5/ 9-STZ-5,08	1764316	50
MSTB 2,5/10-STZ-5,08	1764303	50
MSTB 2,5/11-STZ-5,08	1764293	50
MSTB 2,5/12-STZ-5,08	1764280	50
MSTB 2,5/13-STZ-5,08	1764277	50
MSTB 2,5/14-STZ-5,08	1764264	50

	Ambient temperatu	re [°C]
Orderin	g data	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
MSTB 2,5/ 2-ST-5,08-LR	1808886	50
MSTB 2,5/ 3-ST-5,08-LR	1808899	50
MSTB 2,5/ 4-ST-5,08-LR	1808909	50
MSTB 2,5/ 5-ST-5,08-LR	1808912	50
MSTB 2,5/ 6-ST-5,08-LR	1808925	50
MSTB 2,5/ 7-ST-5,08-LR	1808938	50
MSTB 2,5/ 8-ST-5,08-LR	1808941	50
MSTB 2,5/ 9-ST-5,08-LR	1808954	50
MSTB 2,5/10-ST-5,08-LR	1808967	50
MSTB 2,5/11-ST-5,08-LR	1808970	50
MSTB 2,5/12-ST-5,08-LR	1808983	50
MSTB 2,5/13-ST-5,08-LR	1808996	50
MSTB 2,5/14-ST-5,08-LR	1809005	50
MSTB 2,5/15-ST-5,08-LR	1809018	50
MSTB 2,5/16-ST-5,08-LR	1809021	50

1764251

1764248

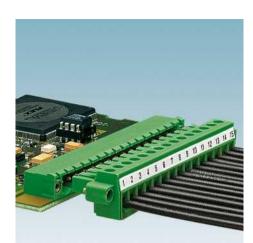
50

50

MSTB 2,5/15-STZ-5,08

MSTB 2.5/16-STZ-5.08

Plug with a screw connection



- Versions with and without a screw flange
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products
- Plug-in direction parallel to the conductor axis

MSTBP 2,5/...

- Test connection for MPS plugs

MSTBT 2,5/...

- The cable connection area of the MSTBT 2,5/... is located deeper than that of the MSTB 2,5/...

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

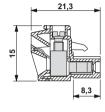
1) Please observe the derating curves. Derating curves of further combination options on request.

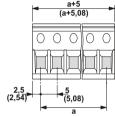


With a test connection

Dimensional drawing

© c¶ us PC de CB.





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories For all types Page Coding profile CP-MSTB 38 1734634 Marker cards SK 5/3,8 or SK 5,08/3,8 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Insertion bridge 829 EBP...- 5 Only for MSTBP 2,5/ ... -ST 831 Test plug

Technical data			
recilinear data			
Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section	FA1 / Fma.ma21		1
Rated insulation voltage for pollution degree 2	[A] / [mm²] [V]	-	_
nated irisulation voltage for pollution degree 2	[v]		
Pitch	[mm]		
Connection capacity			
Solid / stranded [mm²	2] / [mm ²] / AWG	0.2 - 2.5	/
Stranded with ferrules without plastic sleeve	[mm ²]		0
Stranded with ferrules with plastic sleeve	[mm ²]		0
Multi-conductor connection capacity (two conductors with the sa	ame cross section)		
Solid / stranded	[mm ²]	0.2	<u>-</u>
Stranded with ferrules without plastic sleeve	[mm ²]		-
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		(
Insulation coordination			
Surge voltage category / pollution degree		III/3	
Rated insulation voltage	[V]	250	
Rated surge voltage	[kV]	4	
Approval data (UL/CUL)	Use Group	В	
Nominal voltage	[V]	300	
Nominal current	[A]	15	
Connection capacity AWG	AWG	30 - 12	
Approval data (CSA)	Use Group	В	
Nominal voltage	[V]	300	
Nominal current	[A]	10	
Connection capacity AWG	AWG	28 - 12	
General data			
Stripping length	[mm]		
Screw thread			
Tightening torque	[Nm]		(
Type of insulation material / insulation material grou	ip		
Inflammability class according to UL 94			
			_

	121) / 2.5	
	320	
	5 / 5.08	
0.2 - 2.5	5 / 0.2 - 2.5	
	0.25 - 2.5	
	0.25 - 2.5	
0.:	2 - 1 / 0.2 -	1.5
	0.25 - 1	
	0.5 - 1.5	
	III / O	11.70
III/3	III/2	11/2
250	320	630
4	4	4
В	С	D
300 15	-	300 15
30 - 12		30 - 12
30 - 12 B	C	30 - 12 D
300	C	300
10		10
28 - 12		28 - 12
20 - 12		20 - 12
	7	
	M3	
	0.5 - 0.6	
	PA/I	
	VO	

		Ordering dar	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	MSTBP 2,5/ 2-ST	1765771	50
3	10.00	MSTBP 2,5/ 3-ST	1765784	50
4	15.00	MSTBP 2,5/ 4-ST	1765797	50
5	20.00	MSTBP 2,5/ 5-ST	1765807	50
6	25.00	MSTBP 2,5/ 6-ST	1765810	50
7	30.00	MSTBP 2,5/ 7-ST	1765823	50
8	35.00	MSTBP 2,5/ 8-ST	1765836	50
9	40.00	MSTBP 2,5/ 9-ST	1765849	50
10	45.00	MSTBP 2,5/10-ST	1765852	50
11	50.00	MSTBP 2,5/11-ST	1765865	50
12	55.00	MSTBP 2,5/12-ST	1765878	50
13	60.00	MSTBP 2,5/13-ST	1765881	50
14	65.00	MSTBP 2,5/14-ST	1765894	50
15	70.00	MSTBP 2,5/15-ST	1765904	50
16	75.00	MSTBP 2,5/16-ST	1765917	50
		5.08 mm pitch, color: green		
2	5.08	MSTBP 2,5/ 2-ST-5,08	1769010	50
3	10.16	MSTBP 2,5/ 3-ST-5,08	1769023	50
4	15.24	MSTBP 2,5/ 4-ST-5,08	1769036	50
5	20.32	MSTBP 2,5/ 5-ST-5,08	1769049	50
6	25.40	MSTBP 2,5/ 6-ST-5,08	1769052	50
7	30.48	MSTBP 2,5/ 7-ST-5,08	1769065	50
8	35.56	MSTBP 2,5/ 8-ST-5,08	1769078	50
9	40.64	MSTBP 2,5/ 9-ST-5,08	1769081	50
10	45.72	MSTBP 2,5/10-ST-5,08	1769094	50
11	50.80	MSTBP 2,5/11-ST-5,08	1769104	50
12	55.88	MSTBP 2,5/12-ST-5,08	1769117	50
13	60.96	MSTBP 2,5/13-ST-5,08	1769120	50
14	66.04	MSTBP 2,5/14-ST-5,08	1769133	50
15	71.12	MSTBP 2,5/15-ST-5,08	1769146	50
16	76.20	MSTBP 2,5/16-ST-5,08	1769159	50





With connection area moved to the top

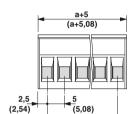
With connection area moved to the top and screw flange

Dimensional drawing

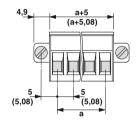
(F) Lync (C) Lync CB.

18,2

Dimensional drawing

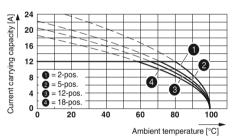


(cal us PC And CB



Representative derating curve

Type: MSTBT 2,5/...-ST with MSTBA 2,5/...-G



Type Order No. Pcs./Pk COMBICON screw connectors, 5.0 mm pitch, color: green MSTBT 2,5/ 2-ST 1779835 50 MSTBT 2,5/ 3-ST 1779848 50 MSTBT 2,5/ 4-ST 1779851 50 MSTBT 2,5/ 6-ST 1779864 50 MSTBT 2,5/ 6-ST 1779877 50 MSTBT 2,5/ 6-ST 1779880 50 MSTBT 2,5/ 8-ST 1779880 50 MSTBT 2,5/ 9-ST 177993 50 MSTBT 2,5/ 10-ST 177993 50 MSTBT 2,5/ 10-ST 1779916 50 MSTBT 2,5/ 11-ST 1779929 50 MSTBT 2,5/ 11-ST 1779932 50 MSTBT 2,5/ 11-ST 1779932 50 MSTBT 2,5/ 11-ST 1779932 50 MSTBT 2,5/ 15-ST 1779945 50 MSTBT 2,5/ 15-ST 1779945 50 MSTBT 2,5/ 15-ST 1779958 50 MSTBT 2,5/ 15-ST 1779961 50 MSTBT 2,5/ 15-ST 1779974 50 MSTBT 2,5/ 15-ST 177997 50 MSTBT 2,5/ 15-ST-5,08 1779997 50 MSTBT 2,5/ 15-ST-5,08 1781042 50 MSTBT 2,5/ 5-ST-5,08 1781043 50 MSTBT 2,5/ 8-ST-5,08 1781043 50 MSTBT 2,5/ 10-ST-5,08 1781030 50 MSTBT 2,5/ 10-ST-5,08 1781030 50 MSTBT 2,5/ 15-ST-5,08 1781030 50 MSTBT 2,5/ 15-ST-5,08 1781043 50 MSTBT 2,5/ 15-ST-5,08 1781098 50 MSTBT 2,5/ 15-ST-5,08 178108 50 MSTBT 2,5/ 15-ST-5,08 1781108 50	Ordering data			
COMBICON screw connectors, 5.0 mm pitch, color: green MSTBT 2,5/2-ST 1779835 50 MSTBT 2,5/3-ST 1779848 50 MSTBT 2,5/4-ST 1779851 50 MSTBT 2,5/6-ST 1779864 50 MSTBT 2,5/6-ST 1779877 50 MSTBT 2,5/6-ST 1779880 50 MSTBT 2,5/9-ST 1779993 50 MSTBT 2,5/9-ST 1779903 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/11-ST 1779929 50 MSTBT 2,5/12-ST 1779929 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/14-ST 1779958 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/16-ST 1779974 50 5.08 mm pitch, color: green MSTBT 2,5/2-ST-5,08 1779979 50 MSTBT 2,5/3-ST-5,08 1779987 50 MSTBT 2,5/3-ST-5,08 178104 50 MSTBT 2,5/3-ST-5,08 178102 50 MSTBT 2,5/3-ST-5,08			Doc / Dkt	
MSTBT 2,5/2-ST 1779848 50 MSTBT 2,5/3-ST 1779848 50 MSTBT 2,5/4-ST 1779851 50 MSTBT 2,5/4-ST 1779851 50 MSTBT 2,5/6-ST 1779864 50 MSTBT 2,5/6-ST 1779877 50 MSTBT 2,5/6-ST 1779880 50 MSTBT 2,5/8-ST 1779880 50 MSTBT 2,5/9-ST 1779903 50 MSTBT 2,5/10-ST 1779903 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/11-ST 1779929 50 MSTBT 2,5/13-ST 1779929 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/15-ST 1779945 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/15-ST 1779974 50 MSTBT 2,5/15-ST 1779974 50 MSTBT 2,5/15-ST 1779974 50 MSTBT 2,5/3-ST-5,08 1779970 50 MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/5-ST-5,08 1781042 50 MSTBT 2,5/6-ST-5,08 1781043 50 MSTBT 2,5/6-ST-5,08 1781043 50 MSTBT 2,5/6-ST-5,08 1781043 50 MSTBT 2,5/6-ST-5,08 1781043 50 MSTBT 2,5/19-ST-5,08 1781043 50 MSTBT 2,5/19-ST-5,08 1781049 50 MSTBT 2,5/19-ST-5,08 1781095 50 MSTBT 2,5/11-ST-5,08 1781095 50 MSTBT 2,5/11-ST-5,08 1781095 50 MSTBT 2,5/11-ST-5,08 1781095 50 MSTBT 2,5/11-ST-5,08 1781098 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 1781098 50	••			
MSTBT 2,5/3-ST 1779848 50 MSTBT 2,5/4-ST 1779851 50 MSTBT 2,5/5-ST 1779864 50 MSTBT 2,5/5-ST 1779864 50 MSTBT 2,5/6-ST 1779877 50 MSTBT 2,5/7-ST 1779893 50 MSTBT 2,5/9-ST 1779903 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/10-ST 1779929 50 MSTBT 2,5/12-ST 1779929 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/14-ST 1779958 50 MSTBT 2,5/16-ST 1779961 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/12-ST-5,08 1779977 50 MSTBT 2,5/2-ST-5,08 177990 50 MSTBT 2,5/3-ST-5,08 1781002 50 MSTBT 2,5/3-ST-5,08 1781027 50 MSTBT 2,5/3-ST-5,08 178103 50 MSTBT 2,5/3-ST-5,08 1781043 50	COMBICON Screw connectors, 5.0 mm	pitch, color:	green	
MSTBT 2,5/4-ST 1779851 50 MSTBT 2,5/5-ST 1779864 50 MSTBT 2,5/6-ST 1779877 50 MSTBT 2,5/6-ST 1779880 50 MSTBT 2,5/7-ST 1779880 50 MSTBT 2,5/9-ST 1779933 50 MSTBT 2,5/9-ST 1779903 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/11-ST 1779929 50 MSTBT 2,5/12-ST 1779929 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/15-ST 1779958 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/15-ST 1779974 50 S.08 mm pitch, color: green MSTBT 2,5/3-ST-5,08 1779970 50 MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/5-ST-5,08 1780002 50 MSTBT 2,5/6-ST-5,08 1781014 50 MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/6-ST-5,08 1781030 50 MSTBT 2,5/6-ST-5,08 178104 50 MSTBT 2,5/19-ST-5,08 178104 50 MSTBT 2,5/19-ST-5,08 178104 50 MSTBT 2,5/19-ST-5,08 178104 50 MSTBT 2,5/19-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781065 50 MSTBT 2,5/11-ST-5,08 1781098 50 MSTBT 2,5/11-ST-5,08 1781098 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 178108 50	MSTBT 2,5/ 2-ST	1779835	50	
MSTBT 2,5/5-ST 1779864 50 MSTBT 2,5/6-ST 1779877 50 MSTBT 2,5/7-ST 1779880 50 MSTBT 2,5/8-ST 1779893 50 MSTBT 2,5/9-ST 1779903 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/10-ST 1779929 50 MSTBT 2,5/13-ST 1779932 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/15-ST 1779958 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/2-ST-5,08 1779974 50 MSTBT 2,5/3-ST-5,08 1779987 50 MSTBT 2,5/3-ST-5,08 1778002 50 MSTBT 2,5/3-ST-5,08 178104 50 MSTBT 2,5/8-ST-5,08 178103 50 MSTBT 2,5/12-ST-5,08 1781043 50 MSTBT 2,5/12-ST-5,08 1781063 50	MSTBT 2,5/ 3-ST	1779848	50	
MSTBT 2,5/6-ST 1779877 50 MSTBT 2,5/7-ST 1779880 50 MSTBT 2,5/8-ST 1779983 50 MSTBT 2,5/9-ST 1779903 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/10-ST 1779929 50 MSTBT 2,5/12-ST 1779922 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/14-ST 1779958 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/12-ST-5,08 1779997 50 MSTBT 2,5/2-ST-5,08 1779990 50 MSTBT 2,5/2-ST-5,08 1780002 50 MSTBT 2,5/6-ST-5,08 1781014 50 MSTBT 2,5/7-ST-5,08 1781027 50 MSTBT 2,5/7-ST-5,08 178103 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/10-ST-5,08 1781069	MSTBT 2,5/ 4-ST	1779851	50	
MSTBT 2,5/7-ST 1779880 50 MSTBT 2,5/8-ST 1779983 50 MSTBT 2,5/9-ST 1779903 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/10-ST 1779929 50 MSTBT 2,5/11-ST 1779932 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/14-ST 1779958 50 MSTBT 2,5/14-ST 1779974 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/15-ST-5,08 1779974 50 MSTBT 2,5/2-ST-5,08 177990 50 MSTBT 2,5/2-ST-5,08 1789002 50 MSTBT 2,5/4-ST-5,08 1781014 50 MSTBT 2,5/5-ST-5,08 1781027 50 MSTBT 2,5/7-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/19-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 17810	MSTBT 2,5/ 5-ST	1779864	50	
MSTBT 2,5/8-ST 1779893 50 MSTBT 2,5/19-ST 1779903 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/11-ST 1779929 50 MSTBT 2,5/12-ST 1779922 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/14-ST 1779958 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/15-ST 1779974 50 SOB mm pitch, color: green MSTBT 2,5/2-ST-5,08 177997 50 MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/3-ST-5,08 1780002 50 MSTBT 2,5/5-ST-5,08 1781027 50 MSTBT 2,5/6-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 1781095 50 MSTBT 2,5/12-ST-5,08 1781095 50	MSTBT 2,5/ 6-ST	1779877	50	
MSTBT 2,5/9-ST 1779903 50 MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/11-ST 1779929 50 MSTBT 2,5/12-ST 1779945 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/15-ST 1779958 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/16-ST 1779974 50 5.08 mm pitch, color: green MSTBT 2,5/2-ST-5,08 1779987 50 MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/3-ST-5,08 1780002 50 MSTBT 2,5/6-ST-5,08 1781014 50 MSTBT 2,5/7-ST-5,08 1781027 50 MSTBT 2,5/3-ST-5,08 1781030 50 MSTBT 2,5/3-ST-5,08 1781043 50 MSTBT 2,5/19-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/12-ST-5,08 1781085 50 <tr< td=""><td>MSTBT 2,5/ 7-ST</td><td>1779880</td><td>50</td></tr<>	MSTBT 2,5/ 7-ST	1779880	50	
MSTBT 2,5/10-ST 1779916 50 MSTBT 2,5/11-ST 1779929 50 MSTBT 2,5/12-ST 1779932 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/13-ST 1779958 50 MSTBT 2,5/14-ST 1779961 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/2-ST-5,08 1779987 50 MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/4-ST-5,08 1780002 50 MSTBT 2,5/4-ST-5,08 1781044 50 MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/8-ST-5,08 1781030 50 MSTBT 2,5/8-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/12-ST-5,08	MSTBT 2,5/ 8-ST	1779893	50	
MSTBT 2,5/11-ST 1779929 50 MSTBT 2,5/12-ST 1779932 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/14-ST 1779958 50 MSTBT 2,5/14-ST 1779961 50 MSTBT 2,5/15-ST 1779974 50 Som mp pitch, color: green 1779974 50 MSTBT 2,5/2-ST-5,08 1779990 50 MSTBT 2,5/3-ST-5,08 1780002 50 MSTBT 2,5/4-ST-5,08 1781014 50 MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/6-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/14-ST-5,08 1781085 50 MSTBT 2,5/14-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781098 50 MSTBT 2,5/15-S	MSTBT 2,5/ 9-ST	1779903	50	
MSTBT 2,5/12-ST 1779932 50 MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/14-ST 1779958 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/16-ST 1779974 50 5.08 mm pitch, color: green 1779974 50 MSTBT 2,5/2-ST-5,08 177990 50 MSTBT 2,5/3-ST-5,08 1780002 50 MSTBT 2,5/4-ST-5,08 1781014 50 MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/7-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781098 50 MSTBT 2,5	MSTBT 2,5/10-ST	1779916	50	
MSTBT 2,5/13-ST 1779945 50 MSTBT 2,5/14-ST 1779958 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/15-ST 1779974 50 5.08 mm pitch, color: green MSTBT 2,5/2-ST-5,08 1779987 50 MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/3-ST-5,08 1780002 50 MSTBT 2,5/4-ST-5,08 1781027 50 MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/7-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781098 50 </td <td>MSTBT 2,5/11-ST</td> <td>1779929</td> <td>50</td>	MSTBT 2,5/11-ST	1779929	50	
MSTBT 2,5/14-ST 1779958 50 MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/16-ST 1779974 50 MSTBT 2,5/2-ST-5,08 1779987 50 MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/4-ST-5,08 1780002 50 MSTBT 2,5/5-ST-5,08 1781014 50 MSTBT 2,5/6-ST-5,08 1781030 50 MSTBT 2,5/8-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/10-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781108 50	MSTBT 2,5/12-ST	1779932	50	
MSTBT 2,5/15-ST 1779961 50 MSTBT 2,5/16-ST 1779974 50 5.08 mm pitch, color: green 1779974 50 MSTBT 2,5/2-ST-5,08 1779987 50 MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/5-ST-5,08 1780002 50 MSTBT 2,5/5-ST-5,08 1781014 50 MSTBT 2,5/5-ST-5,08 1781027 50 MSTBT 2,5/5-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781010 50 MSTBT 2,5/15-ST-5,08 1781085 50 MSTBT 2,5/15-ST-5,08 1781010 50	MSTBT 2,5/13-ST	1779945	50	
MSTBT 2,5/16-ST 1779974 50 5.08 mm pitch, color: green MSTBT 2,5/2-ST-5,08 1779997 50 MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/4-ST-5,08 1780002 50 MSTBT 2,5/5-ST-5,08 1781014 50 MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/6-ST-5,08 1781030 50 MSTBT 2,5/7-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/12-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781108 50	MSTBT 2,5/14-ST	1779958	50	
5.08 mm pitch, color: green MSTBT 2,5/ 2-ST-5,08 1779987 50 MSTBT 2,5/ 3-ST-5,08 1779990 50 MSTBT 2,5/ 4-ST-5,08 1780002 50 MSTBT 2,5/ 5-ST-5,08 1781014 50 MSTBT 2,5/ 6-ST-5,08 1781027 50 MSTBT 2,5/ 7-ST-5,08 1781030 50 MSTBT 2,5/ 8-ST-5,08 1781043 50 MSTBT 2,5/ 9-ST-5,08 1781069 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/13-ST-5,08 178108 50 MSTBT 2,5/15-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781108 50	MSTBT 2,5/15-ST	1779961	50	
MSTBT 2,5/ 2-ST-5,08 1779987 50 MSTBT 2,5/ 3-ST-5,08 1779990 50 MSTBT 2,5/ 4-ST-5,08 1780002 50 MSTBT 2,5/ 5-ST-5,08 1781014 50 MSTBT 2,5/ 5-ST-5,08 1781027 50 MSTBT 2,5/ 7-ST-5,08 1781030 50 MSTBT 2,5/ 8-ST-5,08 1781043 50 MSTBT 2,5/ 9-ST-5,08 1734207 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/12-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781098 50 MSTBT 2,5/15-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781108 50	MSTBT 2,5/16-ST	1779974	50	
MSTBT 2,5/3-ST-5,08 1779990 50 MSTBT 2,5/4-ST-5,08 1780002 50 MSTBT 2,5/5-ST-5,08 1781014 50 MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/7-ST-5,08 1781030 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/9-ST-5,08 1781043 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781108 50	5.08 mm pitch, color: green			
MSTBT 2,5/4-ST-5,08 1780002 50 MSTBT 2,5/5-ST-5,08 1781014 50 MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/7-ST-5,08 1781030 50 MSTBT 2,5/7-ST-5,08 1781043 50 MSTBT 2,5/9-ST-5,08 1734207 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/13-ST-5,08 1781085 50 MSTBT 2,5/14-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781101 50	MSTBT 2,5/ 2-ST-5,08	1779987	50	
MSTBT 2,5/5-ST-5,08 1781014 50 MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/7-ST-5,08 1781030 50 MSTBT 2,5/8-ST-5,08 1781043 50 MSTBT 2,5/9-ST-5,08 1734207 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/13-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/ 3-ST-5,08	1779990	50	
MSTBT 2,5/6-ST-5,08 1781027 50 MSTBT 2,5/7-ST-5,08 1781030 50 MSTBT 2,5/7-ST-5,08 1781043 50 MSTBT 2,5/9-ST-5,08 1734207 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/ 4-ST-5,08	1780002	50	
MSTBT 2,5/7-ST-5,08 1781030 50 MSTBT 2,5/8-ST-5,08 1781043 50 MSTBT 2,5/9-ST-5,08 1734207 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/ 5-ST-5,08	1781014	50	
MSTBT 2,5/8-ST-5,08 1781043 50 MSTBT 2,5/9-ST-5,08 1734207 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/10-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/ 6-ST-5,08	1781027	50	
MSTBT 2,5/9-ST-5,08 1734207 50 MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/ 7-ST-5,08	1781030	50	
MSTBT 2,5/10-ST-5,08 1781069 50 MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/ 8-ST-5,08	1781043	50	
MSTBT 2,5/11-ST-5,08 1781072 50 MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/ 9-ST-5,08	1734207	50	
MSTBT 2,5/12-ST-5,08 1781085 50 MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/10-ST-5,08	1781069	50	
MSTBT 2,5/13-ST-5,08 1781098 50 MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/11-ST-5,08	1781072	50	
MSTBT 2,5/14-ST-5,08 1781108 50 MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/12-ST-5,08	1781085	50	
MSTBT 2,5/15-ST-5,08 1781111 50	MSTBT 2,5/13-ST-5,08	1781098	50	
	MSTBT 2,5/14-ST-5,08	1781108	50	
MSTBT 2,5/16-ST-5,08 1781124 50	MSTBT 2,5/15-ST-5,08	1781111	50	
	MSTBT 2,5/16-ST-5,08	1781124	50	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MSTBT 2,5/ 2-STF	1919718	50	
MSTBT 2,5/ 3-STF	1919721	50	
MSTBT 2,5/ 4-STF	1919734	50	
MSTBT 2,5/ 5-STF	1919747	50	
MSTBT 2,5/ 6-STF	1919750	50	
MSTBT 2,5/ 7-STF	1919763	50	
MSTBT 2,5/ 8-STF	1919776	50	
MSTBT 2,5/ 9-STF	1919789	50	
MSTBT 2,5/10-STF	1919792	50	
MSTBT 2,5/11-STF	1919802	50	
MSTBT 2,5/12-STF	1919815	50	
MSTBT 2,5/13-STF	1919828	50	
MSTBT 2,5/14-STF	1919831	50	
MSTBT 2,5/15-STF	1919844	50	
MSTBT 2,5/16-STF	1919857	50	
5.08 mm pitch, color: green			
MSTBT 2,5/ 2-STF-5,08	1805301	50	
MSTBT 2,5/ 3-STF-5,08	1805314	50	
MSTBT 2,5/ 4-STF-5,08	1805327	50	
MSTBT 2,5/ 5-STF-5,08	1805330	50	
MSTBT 2,5/ 6-STF-5,08	1805343	50	
MSTBT 2,5/ 7-STF-5,08	1805356	50	
MSTBT 2,5/ 8-STF-5,08	1804661	50	
MSTBT 2,5/ 9-STF-5,08	1805369	50	
MSTBT 2,5/10-STF-5,08	1805372	50	
MSTBT 2,5/11-STF-5,08	1805385	50	
MSTBT 2,5/12-STF-5,08	1805398	50	
MSTBT 2,5/13-STF-5,08	1805408	50	
MSTBT 2,5/14-STF-5,08	1805411	50	
MSTBT 2,5/15-STF-5,08	1805424	50	
MSTBT 2,5/16-STF-5,08	1805437	50	

Plug with a screw connection



- MSTB plugs for vertical plug-in direction
- Versions with and without a screw

MVSTBR 2,5...-ST(-5,08)

- Conductor entry on the coded side of the connector

MVSTBW 2,5...-ST(-5,08)

- Conductor entry on the rippled side of the connector

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

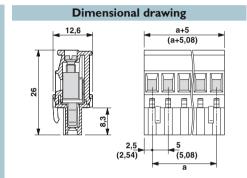
The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



Conductor entry facing coding side

€ .**\$1** us € CB.



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Type Coding profile CP-MSTB Order No. 1734634 Marker cards	Page 38
CP-MSTB Order No. 1734634	
Marker cards	709
SK 5/3,8 or SK 5,08/3,8	790
Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
Insertion bridge EBP 5	829
	SZS 0,6 x 3,5 Order No. 1205053 Insertion bridge

V0

Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]		121) / 2.5	
Rated insulation voltage for pollution degree 2	[V]		320	
Pitch	[mm]		5 / 5.08	
Connection capacity				
Solid / stranded [mm²]	/ [mm²] / AWG	0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 12
Stranded with ferrules without plastic sleeve	[mm ²]		0.25 - 2.5	
Stranded with ferrules with plastic sleeve	[mm ²]		0.25 - 2.5	
Multi-conductor connection capacity (two conductors with the same	e cross section)			
Solid / stranded	olid / stranded [mm²] 0.2 - 1 / 0.2 - 1.5			1.5
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	th plastic sleeve [mm²] 0.5 - 1.5			
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]		7	
Screw thread			МЗ	
Tightening torque	[Nm]		0.5 - 0.6	
Type of insulation material / insulation material group			PA/I	
- :				

		Ordering date	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	MVSTBR 2,5/ 2-ST	1792016	50
3	10.00	MVSTBR 2,5/ 3-ST	1792029	50
4	15.00	MVSTBR 2,5/ 4-ST	1792032	50
5	20.00	MVSTBR 2,5/ 5-ST	1792045	50
6	25.00	MVSTBR 2,5/ 6-ST	1792058	50
7	30.00	MVSTBR 2,5/ 7-ST	1792061	50
8	35.00	MVSTBR 2,5/ 8-ST	1792074	50
9	40.00	MVSTBR 2,5/ 9-ST	1792087	50
10	45.00	MVSTBR 2,5/10-ST	1792090	50
11	50.00	MVSTBR 2,5/11-ST	1792100	50
12	55.00	MVSTBR 2,5/12-ST	1792113	50
13	60.00	MVSTBR 2,5/13-ST	1792126	50
14	65.00	MVSTBR 2,5/14-ST	1792139	50
15	70.00	MVSTBR 2,5/15-ST	1792142	50
16	75.00	MVSTBR 2,5/16-ST	1792155	50
		5.08 mm pitch, color: green		
2	5.08	MVSTBR 2,5/ 2-ST-5,08	1792249	50
3	10.16	MVSTBR 2,5/ 3-ST-5,08	1792252	50
4	15.24	MVSTBR 2,5/ 4-ST-5,08	1792265	50
5	20.32	MVSTBR 2,5/ 5-ST-5,08	1792278	50
6	25.40	MVSTBR 2,5/ 6-ST-5,08	1792281	50
7	30.48	MVSTBR 2,5/ 7-ST-5,08	1792294	50
8	35.56	MVSTBR 2,5/ 8-ST-5,08	1792304	50
9	40.64	MVSTBR 2,5/ 9-ST-5,08	1792317	50
10	45.72	MVSTBR 2,5/10-ST-5,08	1792320	50
11	50.80	MVSTBR 2,5/11-ST-5,08	1792333	50
12	55.88	MVSTBR 2,5/12-ST-5,08	1792346	50
13	60.96	MVSTBR 2,5/13-ST-5,08	1792359	50
14	66.04	MVSTBR 2,5/14-ST-5,08	1792362	50
15	71.12	MVSTBR 2,5/15-ST-5,08	1792375	50
16	76.20	MVSTBR 2,5/16-ST-5,08	1792388	50

Inflammability class according to UL 94



Conductor entry facing coding side, with screw flange

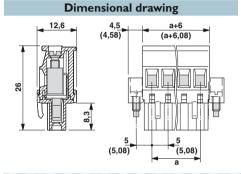


Conductor entry facing rippled side

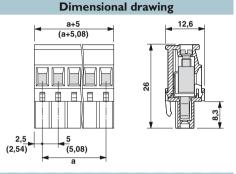


Conductor entry facing rippled side, with screw flange

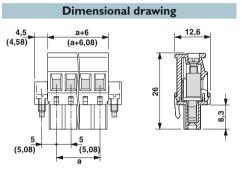




Schem

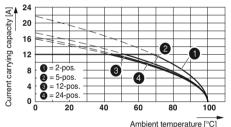


(F) CB

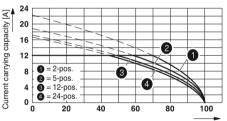


Representative derating curves of the above-mentioned plugs Type: MVSTBW 2,5/...-ST-5,08 with (U)MSTBVK 2,5/...-G-5,08

Type: MVSTBR 2,5/...-ST(5,08) with MSTBA 2,5/...-G(-5,08)



Ambient temperature [°C]



Ambient temperature [°C]

Ordering	data	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBR 2,5/ 2-STF	1835478	50
MVSTBR 2,5/ 3-STF	1835481	50
MVSTBR 2,5/ 4-STF	1835494	50
MVSTBR 2,5/ 5-STF	1835504	50
MVSTBR 2,5/ 6-STF	1835517	50
MVSTBR 2,5/ 7-STF	1835520	50
MVSTBR 2,5/ 8-STF	1835533	50
MVSTBR 2,5/ 9-STF	1835546	50
MVSTBR 2,5/10-STF	1835559	50
MVSTBR 2,5/11-STF	1835562	50
MVSTBR 2,5/12-STF	1835575	50
MVSTBR 2,5/13-STF	1835588	50
MVSTBR 2,5/14-STF	1835591	50
MVSTBR 2,5/15-STF	1835601	50
MVSTBR 2,5/16-STF	1835614	50
5.08 mm pitch, color: green		
MVSTBR 2,5/ 2-STF-5,08	1835096	50
MVSTBR 2,5/ 3-STF-5,08	1835106	50
MVSTBR 2,5/ 4-STF-5,08	1835119	50
MVSTBR 2,5/ 5-STF-5,08	1835122	50
MVSTBR 2,5/ 6-STF-5,08	1835135	50
MVSTBR 2,5/ 7-STF-5,08	1835148	50
MVSTBR 2,5/ 8-STF-5,08	1835151	50
MVSTBR 2,5/ 9-STF-5,08	1835164	50
MVSTBR 2,5/10-STF-5,08	1835177	50
MVSTBR 2,5/11-STF-5,08	1835180	50
MVSTBR 2,5/12-STF-5,08	1835193	50
MVSTBR 2,5/13-STF-5,08	1835203	50
MVSTBR 2,5/14-STF-5,08	1835216	50
MVSTBR 2,5/15-STF-5,08	1835229	50
MVSTBR 2,5/16-STF-5,08	1835232	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MVSTBW 2,5/ 2-ST	1792524	50	
MVSTBW 2,5/ 3-ST	1792537	50	
MVSTBW 2,5/ 4-ST	1792540	50	
MVSTBW 2,5/ 5-ST	1792553	50	
MVSTBW 2,5/ 6-ST	1792566	50	
MVSTBW 2,5/ 7-ST	1792579	50	
MVSTBW 2,5/ 8-ST	1792582	50	
MVSTBW 2,5/ 9-ST	1792595	50	
MVSTBW 2,5/10-ST	1792605	50	
MVSTBW 2,5/11-ST	1792618	50	
MVSTBW 2,5/12-ST	1792621	50	
MVSTBW 2,5/13-ST	1792634	50	
MVSTBW 2,5/14-ST	1792647	50	
MVSTBW 2,5/15-ST	1792650	50	
MVSTBW 2,5/16-ST	1792663	50	
5.08 mm pitch, color: green			
MVSTBW 2,5/ 2-ST-5,08	1792757	50	
MVSTBW 2,5/ 3-ST-5,08	1792760	50	
MVSTBW 2,5/ 4-ST-5,08	1792773	50	
MVSTBW 2,5/ 5-ST-5,08	1792786	50	
MVSTBW 2,5/ 6-ST-5,08	1792799	50	
MVSTBW 2,5/ 7-ST-5,08	1792809	50	
MVSTBW 2,5/ 8-ST-5,08	1792812	50	
MVSTBW 2,5/ 9-ST-5,08	1792825	50	
MVSTBW 2,5/10-ST-5,08	1792838	50	
MVSTBW 2,5/11-ST-5,08	1792841	50	
MVSTBW 2,5/12-ST-5,08	1792854	50	
MVSTBW 2,5/13-ST-5,08	1792867	50	
MVSTBW 2,5/14-ST-5,08	1792870	50	
MVSTBW 2,5/15-ST-5,08	1792883	50	
MVSTBW 2,5/16-ST-5,08	1792896	50	

Ordering	data	
Туре	Order No.	Pcs. / Pkt
5.0 mm pitch, color: green		
MVSTBW 2,5/ 2-STF	1835287	50
MVSTBW 2,5/ 3-STF	1835290	50
MVSTBW 2,5/ 4-STF	1835300	50
MVSTBW 2,5/ 5-STF	1835313	50
MVSTBW 2,5/ 6-STF	1835326	50
MVSTBW 2,5/ 7-STF	1835339	50
MVSTBW 2,5/ 8-STF	1835342	50
MVSTBW 2,5/ 9-STF	1835355	50
MVSTBW 2,5/10-STF	1835368	50
MVSTBW 2,5/11-STF	1835371	50
MVSTBW 2,5/12-STF	1835384	50
MVSTBW 2,5/13-STF	1835397	50
MVSTBW 2,5/14-STF	1835407	50
MVSTBW 2,5/15-STF	1835410	50
MVSTBW 2,5/16-STF	1835423	50
5.08 mm pitch, color: green		
MVSTBW 2,5/ 2-STF-5,08	1834903	50
MVSTBW 2,5/ 3-STF-5,08	1834916	50
MVSTBW 2,5/ 4-STF-5,08	1834929	50
MVSTBW 2,5/ 5-STF-5,08	1834932	50
MVSTBW 2,5/ 6-STF-5,08	1834945	50
MVSTBW 2,5/ 7-STF-5,08	1834958	50
MVSTBW 2,5/ 8-STF-5,08	1834961	50
MVSTBW 2,5/ 9-STF-5,08	1834974	50
MVSTBW 2,5/10-STF-5,08	1834987	50
MVSTBW 2,5/11-STF-5,08	1834990	50
MVSTBW 2,5/12-STF-5,08	1835009	50
MVSTBW 2,5/13-STF-5,08	1835012	50
MVSTBW 2,5/14-STF-5,08	1835025	50
MVSTBW 2,5/15-STF-5,08	1835038	50
MVSTBW 2,5/16-STF-5,08	1835041	50

Plugs with a screw connection



- Versions with and without a screw flange
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

FRONT-MSTB 2,5/...-ST(F)-...

- With front screw connection
- Plug-in direction parallel to the conductor axis

SMSTB 2,5/...

- Angled connection direction to the conductor axis

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

- 1) Please observe the derating curves. Derating curves of further combination options on request.
- 2) Diverging data with FRONT-MSTB 2,5/... = stripping length 10



Plug-in direction 45° to the conductor axis

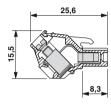
D 20 18 10

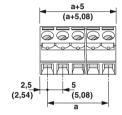
Accessories For all types Page Type Coding profile CP-MSTB 38 1734634 Marker cards 798 SK 5/3,8 or SK 5,08/3,8 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Only for FRONT-MSTB 2,5/...-ST(STF) Pullout aid for connec-



tors arranged one after the other, width: 30 mm FRONT-MSTB-EW Order No. 1763058

Dimensional drawing





Note derating curves

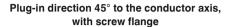
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	
recillical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	
nated insulation voltage for pollution degree 2	: [v]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	

	121) / 2.5	
	320	
	5/5.08	
0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 12
	0.25 - 2.5	
	0.25 - 2.5	
0.2	2 - 1 / 0.2 -	1.5
	0.25 - 1	
	0.5 - 1.5	
III/3	III/2	11/2
250	320	630
4	4	4
В	С	D
300	-	300
15	-	10
30 - 12	-	30 - 12
В	С	D
300	-	300
10	-	10
28 - 12	-	28 - 12
	7 ²)	
	M3	
	0.5 - 0.6	
	PA/I	
	V0	

		Ordering date	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	SMSTB 2,5/ 2-ST	1768765	50
3	10.00	SMSTB 2,5/ 3-ST	1768778	50
4	15.00	SMSTB 2,5/ 4-ST	1768781	50
5	20.00	SMSTB 2,5/ 5-ST	1768794	50
6	25.00	SMSTB 2,5/ 6-ST	1768804	50
7	30.00	SMSTB 2,5/ 7-ST	1768817	50
8	35.00	SMSTB 2,5/ 8-ST	1768448	50
9	40.00	SMSTB 2,5/ 9-ST	1768820	50
10	45.00	SMSTB 2,5/10-ST	1768833	50
11	50.00	SMSTB 2,5/11-ST	1768846	50
12	55.00	SMSTB 2,5/12-ST	1768859	50
13	60.00	SMSTB 2,5/13-ST	1768862	50
14	65.00	SMSTB 2,5/14-ST	1768875	50
15	70.00	SMSTB 2,5/15-ST	1768888	50
16	75.00	SMSTB 2,5/16-ST	1768891	50
		5.08 mm pitch, color: green		
2	5.08	SMSTB 2,5/ 2-ST-5,08	1826283	50
3	10.16	SMSTB 2,5/ 3-ST-5,08	1826296	50
4	15.24	SMSTB 2,5/ 4-ST-5,08	1826306	50
5	20.32	SMSTB 2,5/ 5-ST-5,08	1826319	50
6	25.40	SMSTB 2,5/ 6-ST-5,08	1826322	50
7	30.48	SMSTB 2,5/ 7-ST-5,08	1826335	50
8	35.56	SMSTB 2,5/ 8-ST-5,08	1826348	50
9	40.64	SMSTB 2,5/ 9-ST-5,08	1826351	50
10	45.72	SMSTB 2,5/10-ST-5,08	1826364	50
11	50.80	SMSTB 2,5/11-ST-5,08	1826377	50
12	55.88	SMSTB 2,5/12-ST-5,08	1826380	50
13	60.96	SMSTB 2,5/13-ST-5,08	1826393	50
14	66.04	SMSTB 2,5/14-ST-5,08	1826403	50
15	71.12	SMSTB 2,5/15-ST-5,08	1826416	50
16	76.20	SMSTB 2,5/16-ST-5,08	1826429	50







With front screw connection, plug-in direction parallel to the conductor axis



With front screw connection and screw flange, plug-in direction parallel to the conductor axis

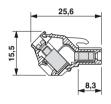
@ **.\$1.** ... @

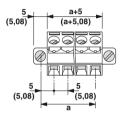
Dimensional drawing

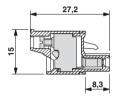
(F) LUS (C) LOS CB

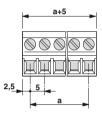
(I) CB (II) CB

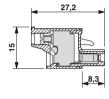
Dimensional drawing Dimensional drawing

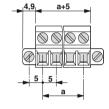






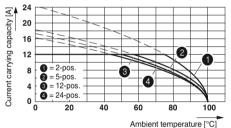






Representative derating curves of the above-mentioned plugs

Type: SMSTB 2,5/...-ST with MSTBA 2,5/...-G

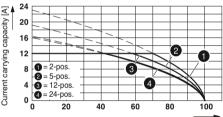


Ambient temperature [°C]

1971206

50

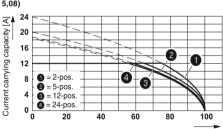
Type: SMSTB 2,5/...-ST with SMSTBA 2,5/...-G



Ordering data

Ambient temperature [°C]

Type: FRONT-MSTB 2,5/...-ST(-5,08) with MSTBA 2,5/...-G(-5,08)



Ambient temperature [°	C]
------------------------	----

Ordering data		
Туре	Order No.	Pcs. / Pkt
5.0 mm pitch, color: green		
SMSTB 2,5/ 2-STF	1970870	50
SMSTB 2,5/ 3-STF	1970883	50
SMSTB 2,5/ 4-STF	1970896	50
SMSTB 2,5/ 5-STF	1970906	50
SMSTB 2,5/ 6-STF	1970919	50
SMSTB 2,5/ 7-STF	1970922	50
SMSTB 2,5/ 8-STF	1970935	50
SMSTB 2,5/ 9-STF	1970948	50
SMSTB 2,5/10-STF	1970951	50
SMSTB 2,5/11-STF	1970964	50
SMSTB 2,5/12-STF	1970977	50
SMSTB 2,5/13-STF	1970980	50
SMSTB 2,5/14-STF	1970993	50
SMSTB 2,5/15-STF	1971002	50
SMSTB 2,5/16-STF	1971015	50
5.08 mm pitch, color: green		
SMSTB 2,5/ 2-STF-5,08	1971060	50
SMSTB 2,5/ 3-STF-5,08	1971073	50
SMSTB 2,5/ 4-STF-5,08	1971086	50
SMSTB 2,5/ 5-STF-5,08	1971099	50
SMSTB 2,5/ 6-STF-5,08	1971109	50
SMSTB 2,5/ 7-STF-5,08	1971112	50
SMSTB 2,5/ 8-STF-5,08	1971125	50
SMSTB 2,5/ 9-STF-5,08	1971138	50
SMSTB 2,5/10-STF-5,08	1971141	50
SMSTB 2,5/11-STF-5,08	1971154	50
SMSTB 2,5/12-STF-5,08	1971167	50
SMSTB 2,5/13-STF-5,08	1971170	50
SMSTB 2,5/14-STF-5,08	1971183	50
SMSTB 2,5/15-STF-5,08	1971196	50

SMSTB 2,5/16-STF-5,08

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FRONT-MSTB 2,5/ 2-ST	1779411	50	
FRONT-MSTB 2,5/ 3-ST	1779424	50	
FRONT-MSTB 2,5/ 4-ST	1779437	50	
FRONT-MSTB 2,5/ 5-ST	1779440	50	
FRONT-MSTB 2,5/ 6-ST	1779453	50	
FRONT-MSTB 2,5/ 7-ST	1779466	50	
FRONT-MSTB 2,5/ 8-ST	1779479	50	
FRONT-MSTB 2,5/ 9-ST	1779482	50	
FRONT-MSTB 2,5/10-ST	1779495	50	
FRONT-MSTB 2,5/11-ST	1779505	50	
FRONT-MSTB 2,5/12-ST	1779518	50	
FRONT-MSTB 2,5/13-ST	1779521	50	
FRONT-MSTB 2,5/14-ST	1779534	50	
FRONT-MSTB 2,5/15-ST	1779547	50	
FRONT-MSTB 2,5/16-ST	1779550	50	
5.08 mm pitch, color: green			
FRONT-MSTB 2,5/ 2-ST-5,08	1777280	50	
FRONT-MSTB 2,5/ 3-ST-5,08	1777293	50	
FRONT-MSTB 2,5/ 4-ST-5,08	1777303	50	
FRONT-MSTB 2,5/ 5-ST-5,08	1777316	50	
FRONT-MSTB 2,5/ 6-ST-5,08	1777329	50	
FRONT-MSTB 2,5/ 7-ST-5,08	1777332	50	
FRONT-MSTB 2,5/ 8-ST-5,08	1777345	50	
FRONT-MSTB 2,5/ 9-ST-5,08	1777358	50	
FRONT-MSTB 2,5/10-ST-5,08	1777361	50	
FRONT-MSTB 2,5/11-ST-5,08	1777374	50	
FRONT-MSTB 2,5/12-ST-5,08	1777387	50	
FRONT-MSTB 2,5/13-ST-5,08	1777390	50	
FRONT-MSTB 2,5/14-ST-5,08	1777400	50	
FRONT-MSTB 2,5/15-ST-5,08	1777413	50	

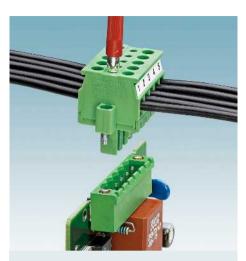
	Ordering dat	ta	
kt.	Туре	Order No.	Pcs. / Pkt.
	5.0 mm pitch, color: green		
	FRONT-MSTB 2,5/ 2-STF	1779644	50
	FRONT-MSTB 2,5/ 3-STF	1779657	50
	FRONT-MSTB 2,5/ 4-STF	1779660	50
	FRONT-MSTB 2,5/ 5-STF	1779673	50
	FRONT-MSTB 2,5/ 6-STF	1779686	50
	FRONT-MSTB 2,5/ 7-STF	1779699	50
	FRONT-MSTB 2,5/ 8-STF	1779709	50
	FRONT-MSTB 2,5/ 9-STF	1779712	50
	FRONT-MSTB 2,5/10-STF	1779725	50
	FRONT-MSTB 2,5/11-STF	1779738	50
	FRONT-MSTB 2,5/12-STF	1779741	50
	FRONT-MSTB 2,5/13-STF	1779754	50
	FRONT-MSTB 2,5/14-STF	1779767	50
	FRONT-MSTB 2,5/15-STF	1779770	50
	FRONT-MSTB 2,5/16-STF	1779783	50
	5.08 mm pitch, color: green		
	FRONT-MSTB 2,5/ 2-STF-5,08	1777808	50
	FRONT-MSTB 2,5/ 3-STF-5,08	1777811	50
	FRONT-MSTB 2,5/ 4-STF-5,08	1777824	50
	FRONT-MSTB 2,5/ 5-STF-5,08	1777837	50
	FRONT-MSTB 2,5/ 6-STF-5,08	1777840	50
	FRONT-MSTB 2,5/ 7-STF-5,08	1777853	50
	FRONT-MSTB 2,5/ 8-STF-5,08	1777798	50
	FRONT-MSTB 2,5/ 9-STF-5,08	1777866	50
	FRONT-MSTB 2,5/10-STF-5,08	1777879	50
	FRONT-MSTB 2,5/11-STF-5,08	1777882	50
	FRONT-MSTB 2,5/12-STF-5,08	1777895	50
	FRONT-MSTB 2,5/13-STF-5,08	1777905	50
	FRONT-MSTB 2,5/14-STF-5,08	1777918	50
	FRONT-MSTB 2,5/15-STF-5,08	1777921	50
	FRONT-MSTB 2,5/16-STF-5,08	1777934	50

1777426

50

FRONT-MSTB 2,5/16-ST-5,08

TWIN screw plugs with connection cross section of up to 2.5 mm²



- Convenient double conductor connection for potential / signal distribution directly in the device
- Retaining the function of the following devices when unplugging individual connectors within a device series
- Versions with and without a screw flange
- 2.3 mm Ø test connection

TMSTBP 2,5...:

- For the DeviceNet-compliant version with gold-plated contact system, visit www.phoenixcontact.com

TVMSTB 2,5...:

- Compact TWIN plug
- Conductor exits perpendicular to the plug-in direction

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



With double screw connection and test connection, plug-in direction parallel to the conductor axis

⊕ •**\$1** us ♥ ♠ CB.

Accessories		
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
	Marker cards SK 5,08/3,8	798
Mary Control	Test plug MPS	831
1	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
4	1205053	

Dimensional drawing		
₹ 21,5	a+7,08 ►	
8,3	2,9 5,08	

Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	ı
Taskeisel data in accordance to UEO / DINLY/	DE
Technical data in accordance to IEC / DIN VI	
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wi	ith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	re [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation materi	al group
Inflammability class according to UL 94	·

	10 (0.5		
-	12/2.5		
	320		
	F 00		
	5.08		
	/00 0 =	104 40	
0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 12	
-	0.25 - 2.5		
	0.25 - 2.5		
0.2	2 - 1 / 0.2 -	1.5	
-	0.25 - 1		
	0.5 - 1.5		
III/3	III/2	II / 2	
250	320	630	
4	4	4	
В	С	D	
300	-	300	
15	-	15	
30 - 12	-	30 - 12	
В	С	D	
300	-	300	
10	-	10	
28 - 12	-	28 - 12	
	7		
	M3		
0.5 - 0.6			
	PA/I		
<u></u>	V0		

Typ		
5.08	Dim. a [mm]	No. of pos.
TMS	5.08	2
TMS	10.16	3
TMS	15.24	4
TMS	20.32	5
TMS	25.40	6
TMS	30.48	7
TMS	35.56	8
TMS	40.64	9
TMS	45.72	10

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
TMSTBP 2,5/ 2-ST-5,08	1853010	50	
TMSTBP 2,5/ 3-ST-5,08	1853023	50	
TMSTBP 2,5/ 4-ST-5,08	1853036	50	
TMSTBP 2,5/ 5-ST-5,08	1853049	50	
TMSTBP 2,5/ 6-ST-5,08	1853052	50	
TMSTBP 2,5/ 7-ST-5,08	1853065	50	
TMSTBP 2,5/ 8-ST-5,08	1853078	50	
TMSTBP 2,5/ 9-ST-5,08	1853081	50	
TMSTBP 2,5/10-ST-5,08	1853094	50	



With double screw connection Test connection and screw flange, plug-in direction parallel to the conductor axis



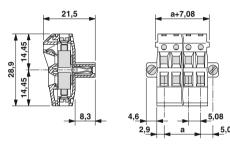
With double screw connection and test connection, plug-in direction vertical to the conductor axis



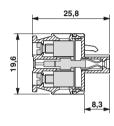
With double screw connection Screw flange and test connection, plug-in direction vertical to the conductor axis

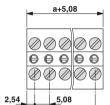
(P. SAL) us (C. Angle C.B.

Dimensional drawing

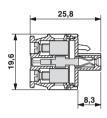


Dimensional drawing

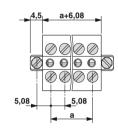




Dimensional drawing



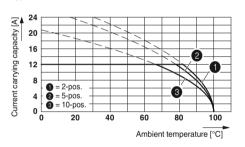
P

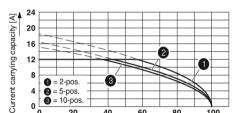


Representative derating curves of the above-mentioned plugs

P

Type: TMSTBP 2,5/...-STF-5,08 with MSTBA 2,5/...-GF-5,08





Type: TVMSTB 2,5/...-ST-5,08 with MSTBVA 2,5/...-G-5,08

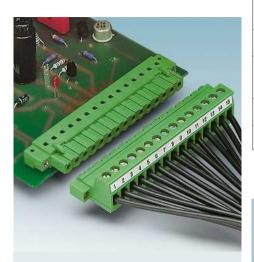
Ambient temperature [°C]

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
TMSTBP 2,5/ 2-STF-5,08	1853104	50	
TMSTBP 2,5/ 3-STF-5,08	1853117	50	
TMSTBP 2,5/ 4-STF-5,08	1853120	50	
TMSTBP 2,5/ 5-STF-5,08	1853133	50	
TMSTBP 2,5/ 6-STF-5,08	1853146	50	
TMSTBP 2,5/ 7-STF-5,08	1853159	50	
TMSTBP 2,5/ 8-STF-5,08	1853162	50	
TMSTBP 2,5/ 9-STF-5,08	1853175	50	
TMSTBP 2,5/10-STF-5,08	1853188	50	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
TVMSTB 2,5/ 2-ST-5,08	1719008	50
TVMSTB 2,5/ 3-ST-5,08	1719011	50
TVMSTB 2,5/ 4-ST-5,08	1719024	50
TVMSTB 2,5/ 5-ST-5,08	1719037	50
TVMSTB 2,5/ 6-ST-5,08	1719040	50
TVMSTB 2,5/ 7-ST-5,08	1719053	50
TVMSTB 2,5/ 8-ST-5,08	1719066	50
TVMSTB 2,5/ 9-ST-5,08	1719079	50
TVMSTB 2,5/10-ST-5,08	1719082	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
TVMSTB 2,5/ 2-STF-5,08	1719095	50	
TVMSTB 2,5/ 3-STF-5,08	1719105	50	
TVMSTB 2,5/ 4-STF-5,08	1719118	50	
TVMSTB 2,5/ 5-STF-5,08	1719121	50	
TVMSTB 2,5/ 6-STF-5,08	1719134	50	
TVMSTB 2,5/ 7-STF-5,08	1719147	50	
TVMSTB 2,5/ 8-STF-5,08	1719150	50	
TVMSTB 2,5/ 9-STF-5,08	1719163	50	
TVMSTB 2,5/10-STF-5,08	1719176	50	

Inverted plugs with a screw connection



- Connectors with inverted contact system (pin contact)
- Can be combined with inverted headers and connectors for shock-proof applications
- Versions with and without a screw flange
- Higher numbers of positions up to 24-pos. can be found at:

www.phoenixcontact.net/products

The IC 2,5/...-STGF-5,08 becomes a panel feed-through terminal block in combination with the IC-DFR assembly frame, see page 350

Technical data

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The inverted contact system is explained on page 34.

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request

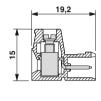


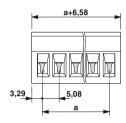
Inverted plugs with screw connection

Accessories For all types Type Page Marker cards 798 SK 5.08/3.8 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Coding section CR-MSTB 38 Order No. 1734401 Insertion bridge 829 EBP...- 5

Only for IC 2,5/ ... -STGF-5,08 Feed-through assembly IC-DFR...

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data in accordance to IEC / DIN VE	DE .
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	h the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	-
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflamma hills along a south as to the OA	

	121) / 2.5	
-	320	
· 	5.08	
0.2 - 2.5	5/0.2-2.5	/ 24 - 12
	0.25 - 2.5	
. ———	0.25 - 2.5	
	2 - 1 / 0.2 -	1.5
	0.25 - 1	
· 	0.5 - 1.5	
III/3	III/2	II / 2
250	320	630
4	4	4
В	С	D
250	-	300
12		10
30 - 12	-	30 - 12
В	С	D
300	-	300
10		10
28 - 12	-	28 - 12
20-12		20 - 12
	7	
· 	/ M3	
	0.5 - 0.6	
	PA/I	
	V0	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.08 mm pitch, color: green		
2	5.08	IC 2,5/ 2-ST-5,08	1786174	50
3	10.16	IC 2,5/ 3-ST-5,08	1786187	50
4	15.24	IC 2,5/ 4-ST-5,08	1786190	50
5	20.32	IC 2,5/ 5-ST-5,08	1786200	50
6	25.40	IC 2,5/ 6-ST-5,08	1786213	50
7	30.48	IC 2,5/ 7-ST-5,08	1786226	50
8	35.56	IC 2,5/ 8-ST-5,08	1786239	50
9	40.64	IC 2,5/ 9-ST-5,08	1786242	50
10	45.72	IC 2,5/10-ST-5,08	1786255	50
11	50.80	IC 2,5/11-ST-5,08	1786268	50
12	55.88	IC 2,5/12-ST-5,08	1786271	50
13	60.96	IC 2,5/13-ST-5,08	1786284	50
14	66.04	IC 2,5/14-ST-5,08	1786297	50
15	71.12	IC 2,5/15-ST-5,08	1786307	50
16	76.20	IC 2,5/16-ST-5,08	1786310	50

Inflammability class according to UL 94





With screw flange, for screw connection using inverted headers

With threaded flange for screw connection using MSTB plugs with screw flange

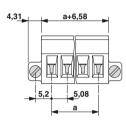


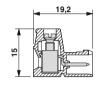
(cal us PC And CB

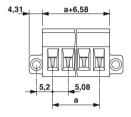
Dimensional drawing

Dimensional drawing





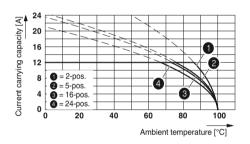


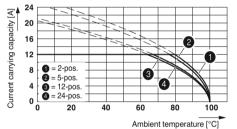


Representative derating curves of the above-mentioned plugs

Type: MSTB 2,5/...-ST-5,08 with IC 2,5/...-ST-5,08

Type: IC 2,5/...-ST-5,08 with IC 2,5/...-G-5,08

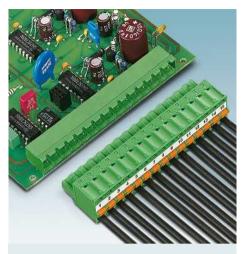




Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
IC 2,5/ 2-STF-5,08	1825310	50	
IC 2,5/ 3-STF-5,08	1825323	50	
IC 2,5/ 4-STF-5,08	1825336	50	
IC 2,5/ 5-STF-5,08	1825349	50	
IC 2,5/ 6-STF-5,08	1825352	50	
IC 2,5/ 7-STF-5,08	1825365	50	
IC 2,5/ 8-STF-5,08	1825378	50	
IC 2,5/ 9-STF-5,08	1825381	50	
IC 2,5/10-STF-5,08	1825394	50	
IC 2,5/11-STF-5,08	1825404	50	
IC 2,5/12-STF-5,08	1825417	50	
IC 2,5/13-STF-5,08	1825420	50	
IC 2,5/14-STF-5,08	1825433	50	
IC 2,5/15-STF-5,08	1825446	50	
IC 2,5/16-STF-5,08	1825459	50	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
IC 2,5/ 2-STGF-5,08	1825501	50	
IC 2,5/ 3-STGF-5,08	1825514	50	
IC 2,5/ 4-STGF-5,08	1825527	50	
IC 2,5/ 5-STGF-5,08	1825530	50	
IC 2,5/ 6-STGF-5,08	1825543	50	
IC 2,5/ 7-STGF-5,08	1825556	50	
IC 2,5/ 8-STGF-5,08	1825569	50	
IC 2,5/ 9-STGF-5,08	1825572	50	
IC 2,5/10-STGF-5,08	1825585	50	
IC 2,5/11-STGF-5,08	1825598	50	
IC 2,5/12-STGF-5,08	1825608	50	
IC 2,5/13-STGF-5,08	1825611	50	
IC 2,5/14-STGF-5,08	1825624	50	
IC 2,5/15-STGF-5,08	1825637	50	
IC 2,5/16-STGF-5,08	1825640	50	

Plugs with push-in spring connection



- Fast conductor connection, thanks to push-in spring connection
- Can be combined with the MSTB 2',5 range
- Contacting of solid or stranded conductors with a ferrule without operating the opening lever directly in the terminal
- Two test connections to accommodate 2 mm Ø test pins or 2.3 mm Ø test plugs
- Versions with and without a screw flange, with a self-locking flange, and with Lock & Release levers
- Higher numbers of positions up to 24-pos. can be found at:

www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

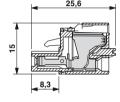
The maximum torque for the screw flange is 0.3 Nm.

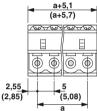
1) Please observe the derating curves. Derating curves of further combination options on request.



With a test connection

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

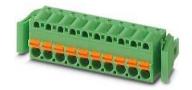
Accessories			
For all types	Туре	Page	
• .	Marker cards SK 5/3,8 or SK 5,08/3,8	798	
*	Coding profile CP-MSTB Order No. 1734634	38	
	Strain relief STZFKC-5,08	837	
	Ferrules with and without plastic sleeve	834	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
II)	Test plug MPS	831	

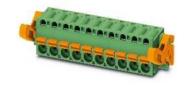
Technical data	
Technical data in accordance to IEC / DIN VD	NE
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	
nated insulation voltage for politilon degree 2	_ [v]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	n the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	

	121) / 2.5	
	320	
	5 / 5.08	
0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 12
	0.25 - 2.5	
	0.25 - 2.5	
	-/- - 0.5 - 1	
	-	
	0.5 - 1	
III/3	III/2	II / 2
250	320	630
4	4	4
В	С	D
300	-	300
10	-	10
26 - 12		26 - 12
В	С	D
300	-	300
12	-	10
24 - 12	-	24 - 12
	10	
	PA/I	
	V0	

Type Somm pitch, color: green Somm pitch,					
No. of pos. Dim. a [mm]			Ordering da	ta	
[mm] 2 5.00 FKC 2,5/2-ST 1910364 50 FKC 2,5/3-ST 1910364 50 FKC 2,5/4-ST 1910377 50 5 20.00 FKC 2,5/5-ST 1910380 50 6 25.00 FKC 2,5/6-ST 1910393 50 7 30.00 FKC 2,5/7-ST 1910403 50 FKC 2,5/8-ST 1910403 50 FKC 2,5/8-ST 1910416 50 9 40.00 FKC 2,5/8-ST 1910429 50 FKC 2,5/8-ST 1910429 50 10 45.00 FKC 2,5/10-ST 1910432 50 11 50.00 FKC 2,5/10-ST 1910435 50 FKC 2,5/11-ST 1910445 50 12 55.00 FKC 2,5/13-ST 1910458 50 13 60.00 FKC 2,5/13-ST 1910458 50 14 65.00 FKC 2,5/13-ST 1910457 50 16 75.00 FKC 2,5/16-ST 1910474 50 17 70.00 FKC 2,5/16-ST 1910474 50 18 75.00 FKC 2,5/16-ST 1910474 50 19 FKC 2,5/15-ST 1910470 50 FKC 2,5/16-ST 1910470 50 FKC 2,5/16-ST 1910490 50 50.88 mm pitch, color: green 2 5.08 FKC 2,5/3-ST-5,08 1873058 50 FKC 2,5/5-ST-5,08 1873074 50 FKC 2,5/5-ST-5,08 1873075 50 FKC 2,5/5-ST-5,08 1873074 50 FKC 2,5/5-ST-5,08 1873075 50 FKC 2,5/5-ST-5,08 1873113 50 FKC 2,5/5-ST-5,08 1873130 50 FKC 2,5/5-ST-5,08 1873130 50 FKC 2,5/10-ST-5,08 1873155 50 FKC 2,5/11-ST-5,08 1873154 50			Туре	Order No.	Pcs. / Pkt.
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8 35.00 FKC 2,5/8-ST 1910416 50 9 40.00 FKC 2,5/9-ST 1910429 50 10 45.00 FKC 2,5/10-ST 1910432 50 11 50.00 FKC 2,5/11-ST 1910455 50 12 55.00 FKC 2,5/12-ST 1910458 50 13 60.00 FKC 2,5/13-ST 1910461 50 14 65.00 FKC 2,5/13-ST 1910461 50 15 70.00 FKC 2,5/16-ST 1910487 50 16 75.00 FKC 2,5/16-ST 1910487 50 17 FKC 2,5/16-ST 1910490 50 18 75.00 FKC 2,5/16-ST 1910490 50 19 FKC 2,5/16-ST 1910490 50 19 FKC 2,5/16-ST 1910490 50 10 FKC 2,5/16-ST 1910490 50 11 50.80 FKC 2,5/16-ST-5,08 1873074 50 11 50.80 FKC 2,5/16-ST-5,08 1873113 50 11 50.80 FKC 2,5/16-ST-5,08 1873113 50 11 50.80 FKC 2,5/16-ST-5,08 1873139 50 11 50.80 FKC 2,5/16-ST-5,08 1873139 50 11 50.80 FKC 2,5/11-ST-5,08 1873155 50 11 66.04 FKC 2,5/11-ST-5,08 1873158 50 11 66.04 FKC 2,5/11-ST-5,08 1873157 50 11 66.04 FKC 2,5/11-ST-5,08 1873158 50	6	25.00	FKC 2,5/ 6-ST	1910393	50
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3 10.16 FKC 2,5/3-ST-5,08 1873061 50 4 15.24 FKC 2,5/4-ST-5,08 1873074 50 5 20.32 FKC 2,5/5-ST-5,08 1873087 50 6 25.40 FKC 2,5/6-ST-5,08 1873090 50 7 30.48 FKC 2,5/7-ST-5,08 1873100 50 8 35.56 FKC 2,5/7-ST-5,08 1873113 50 9 40.64 FKC 2,5/8-ST-5,08 1873126 50 10 45.72 FKC 2,5/10-ST-5,08 1873139 50 11 50.80 FKC 2,5/11-ST-5,08 1873142 50 12 55.88 FKC 2,5/12-ST-5,08 1873155 50 13 60.96 FKC 2,5/12-ST-5,08 1873155 50 14 66.04 FKC 2,5/14-ST-5,08 1873168 50 15 71.12 FKC 2,5/14-ST-5,08 1873171 50			5.08 mm pitch, color: green		
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5 20.32 FKC 2,5/5-ST-5,08 1873087 50 6 25.40 FKC 2,5/6-ST-5,08 1873090 50 7 30.48 FKC 2,5/7-ST-5,08 1873100 50 8 35.56 FKC 2,5/8-ST-5,08 1873113 50 9 40.64 FKC 2,5/9-ST-5,08 1873126 50 10 45.72 FKC 2,5/10-ST-5,08 1873139 50 11 50.80 FKC 2,5/11-ST-5,08 1873142 50 12 55.88 FKC 2,5/12-ST-5,08 1873155 50 13 60.96 FKC 2,5/13-ST-5,08 1873168 50 14 66.04 FKC 2,5/14-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	3	10.16	FKC 2,5/ 3-ST-5,08	1873061	50
6 25.40 FKC 2,5/6-ST-5,08 1873090 50 7 30.48 FKC 2,5/7-ST-5,08 1873100 50 8 35.56 FKC 2,5/8-ST-5,08 1873113 50 9 40.64 FKC 2,5/9-ST-5,08 1873126 50 10 45.72 FKC 2,5/10-ST-5,08 1873139 50 11 50.80 FKC 2,5/11-ST-5,08 1873142 50 12 55.88 FKC 2,5/12-ST-5,08 1873155 50 13 60.96 FKC 2,5/13-ST-5,08 1873168 50 14 66.04 FKC 2,5/13-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	4	15.24	FKC 2,5/ 4-ST-5,08	1873074	50
7 30.48 FKC 2,5/7-ST-5,08 1873100 50 8 35.56 FKC 2,5/8-ST-5,08 1873113 50 9 40.64 FKC 2,5/9-ST-5,08 1873126 50 10 45.72 FKC 2,5/10-ST-5,08 1873139 50 11 50.80 FKC 2,5/11-ST-5,08 1873142 50 12 55.88 FKC 2,5/12-ST-5,08 1873155 50 13 60.96 FKC 2,5/13-ST-5,08 1873168 50 14 66.04 FKC 2,5/14-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	5	20.32	FKC 2,5/ 5-ST-5,08	1873087	50
8 35.56 FKC 2,5/8-ST-5,08 1873113 50 9 40.64 FKC 2,5/9-ST-5,08 1873126 50 10 45.72 FKC 2,5/10-ST-5,08 1873139 50 11 50.80 FKC 2,5/11-ST-5,08 1873142 50 12 55.88 FKC 2,5/12-ST-5,08 1873155 50 13 60.96 FKC 2,5/13-ST-5,08 1873168 50 14 66.04 FKC 2,5/14-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	6	25.40	FKC 2,5/ 6-ST-5,08	1873090	50
9 40.64 FKC 2,5/9-ST-5,08 1873126 50 10 45.72 FKC 2,5/10-ST-5,08 1873139 50 11 50.80 FKC 2,5/11-ST-5,08 1873142 50 12 55.88 FKC 2,5/12-ST-5,08 1873155 50 13 60.96 FKC 2,5/13-ST-5,08 1873168 50 14 66.04 FKC 2,5/14-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	7	30.48	FKC 2,5/ 7-ST-5,08	1873100	50
10 45.72 FKC 2,5/10-ST-5,08 1873139 50 11 50.80 FKC 2,5/11-ST-5,08 1873142 50 12 55.88 FKC 2,5/12-ST-5,08 1873155 50 13 60.96 FKC 2,5/13-ST-5,08 1873168 50 14 66.04 FKC 2,5/14-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	8	35.56	FKC 2,5/ 8-ST-5,08	1873113	50
11 50.80 FKC 2,5/11-ST-5,08 1873142 50 12 55.88 FKC 2,5/12-ST-5,08 1873155 50 13 60.96 FKC 2,5/13-ST-5,08 1873168 50 14 66.04 FKC 2,5/14-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	9	40.64	FKC 2,5/ 9-ST-5,08	1873126	50
12 55.88 FKC 2,5/12-ST-5,08 1873155 50 13 60.96 FKC 2,5/13-ST-5,08 1873168 50 14 66.04 FKC 2,5/14-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	10	45.72	FKC 2,5/10-ST-5,08	1873139	50
13 60.96 FKC 2,5/13-ST-5,08 1873168 50 14 66.04 FKC 2,5/14-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	11	50.80	FKC 2,5/11-ST-5,08	1873142	50
14 66.04 FKC 2,5/14-ST-5,08 1873171 50 15 71.12 FKC 2,5/15-ST-5,08 1873184 50	12	55.88	FKC 2,5/12-ST-5,08	1873155	50
15 71.12 FKC 2,5/15-ST-5,08 1873184 50	13	60.96	FKC 2,5/13-ST-5,08	1873168	50
. ,	14	66.04	FKC 2,5/14-ST-5,08	1873171	50
16 76.20 FKC 2,5/16-ST-5,08 1873197 50	15	71.12	FKC 2,5/15-ST-5,08	1873184	50
	16	76.20	FKC 2,5/16-ST-5,08	1873197	50







With test connection and screw flange

With test connection and self-locking flange

With test connection and Lock & Release levers for snapping on and ejecting

(P. SAL) US (C. LOE) CB. SCHEME

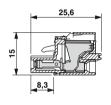
Dimensional drawing

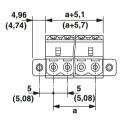
CB CB

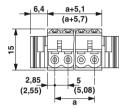
c**91**0 us 🕑

Dimensional drawing

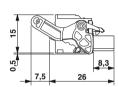
Dimensional drawing

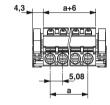






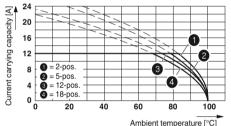






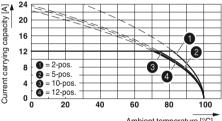
Representative derating curves of the above-mentioned plugs

Type: FKC 2,5/...-ST with MSTBA 2,5/...-G





Type: FKC 2,5/...-ST with FKIC 2,5/...-ST



Ambient	temperature	l _° C

Ordering data			
Туре	Order No.	Pcs. / Pkt	
5.0 mm pitch, color: green			
FKC 2,5/ 2-STF	1910526	50	
FKC 2,5/ 3-STF	1910539	50	
FKC 2,5/ 4-STF	1910542	50	
FKC 2,5/ 5-STF	1910555	50	
FKC 2,5/ 6-STF	1910568	50	
FKC 2,5/ 7-STF	1910571	50	
FKC 2,5/ 8-STF	1910584	50	
FKC 2,5/ 9-STF	1910597	50	
FKC 2,5/10-STF	1910607	50	
FKC 2,5/11-STF	1910610	50	
FKC 2,5/12-STF	1910623	50	
FKC 2,5/13-STF	1910636	50	
FKC 2,5/14-STF	1910649	50	
FKC 2,5/15-STF	1910652	50	
FKC 2,5/16-STF	1910665	50	
5.08 mm pitch, color: green			
FKC 2,5/ 2-STF-5,08	1873207	50	
FKC 2,5/ 3-STF-5,08	1873210	50	
FKC 2,5/ 4-STF-5,08	1873223	50	
FKC 2,5/ 5-STF-5,08	1873236	50	
FKC 2,5/ 6-STF-5,08	1873249	50	
FKC 2,5/ 7-STF-5,08	1873252	50	
FKC 2,5/ 8-STF-5,08	1873265	50	
FKC 2,5/ 9-STF-5,08	1873278	50	
FKC 2,5/10-STF-5,08	1873281	50	
FKC 2,5/11-STF-5,08	1873294	50	
FKC 2,5/12-STF-5,08	1873304	50	
FKC 2,5/13-STF-5,08	1873317	50	
FKC 2,5/14-STF-5,08	1873320	50	
FKC 2,5/15-STF-5,08	1873333	50	
FKC 2,5/16-STF-5,08	1873346	50	

5.0 mm pitch, color: green FKC 2,5/ 2-ST-RF FKC 2,5/ 3-ST-RF FKC 2,5/ 4-ST-RF FKC 2,5/ 4-ST-RF FKC 2,5/ 5-ST-RF FKC 2,5/ 7-ST-RF FKC 2,5/ 7-ST-RF FKC 2,5/ 3-ST-RF FKC 2,5/ 3-ST-S,08-RF FKC 2,5/ 3-ST-5,08-RF FKC 2,5/ 5-ST-5,08-RF FKC 2,5/ 5-ST-5,08-RF FKC 2,5/ 3-ST-5,08-RF 1925773 50 FKC 2,5/ 3-ST-5,08-RF 1925786 50 FKC 2,5/ 3-ST-5,08-RF 1925799 50	Ordering d	ata			
FKC 2,5/ 2-ST-RF 1947052 50 FKC 2,5/ 3-ST-RF 1947065 50 FKC 2,5/ 3-ST-RF 1947078 50 FKC 2,5/ 4-ST-RF 1947081 50 FKC 2,5/ 5-ST-RF 1947094 50 FKC 2,5/ 6-ST-RF 1947104 50 FKC 2,5/ 8-ST-RF 1947117 50 FKC 2,5/ 8-ST-RF 1947117 50 FKC 2,5/ 8-ST-RF 1947120 50 FKC 2,5/ 8-ST-RF 1947120 50 FKC 2,5/ 8-ST-RF 1947120 50 FKC 2,5/ 10-ST-RF 1947133 50 FKC 2,5/ 10-ST-RF 1947146 50 FKC 2,5/ 13-ST-RF 1947146 50 FKC 2,5/ 13-ST-RF 1947159 50 FKC 2,5/ 13-ST-RF 1947191 50 FKC 2,5/ 13-ST-RF 1947191 50 FKC 2,5/ 13-ST-RF 1947191 50 FKC 2,5/ 3-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925702 50 FKC 2,5/ 5-ST-5,08-RF 1925713 50 FKC 2,5/ 8-ST-5,08-RF 1925731 50 FKC 2,5/ 8-ST-5,08-RF 1925773 50 FKC 2,5/ 8-ST-5,08-RF 1925773 50 FKC 2,5/ 12-ST-5,08-RF 1925773 50 FKC 2,5/ 10-ST-5,08-RF 1925773 50 FKC 2,5/ 10-ST-5,08-RF 1925773 50 FKC 2,5/ 12-ST-5,08-RF 1925779 50 FKC 2,5/ 13-ST-5,08-RF 1925779 50	Туре	Order No.	Pcs. / Pkt.		
FKC 2,5/3-ST-RF 1947065 50 FKC 2,5/4-ST-RF 1947078 50 FKC 2,5/5-ST-RF 1947081 50 FKC 2,5/6-ST-RF 1947094 50 FKC 2,5/6-ST-RF 1947094 50 FKC 2,5/6-ST-RF 1947104 50 FKC 2,5/8-ST-RF 1947117 50 FKC 2,5/9-ST-RF 1947112 50 FKC 2,5/9-ST-RF 1947120 50 FKC 2,5/10-ST-RF 1947133 50 FKC 2,5/10-ST-RF 1947146 50 FKC 2,5/11-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947159 50 FKC 2,5/14-ST-RF 1947155 50 FKC 2,5/14-ST-RF 1947175 50 FKC 2,5/14-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947189 50 FKC 2,5/16-ST-RF 1947191 50 FKC 2,5/16-ST-RF 1947191 50 FKC 2,5/16-ST-RF 1947191 50 FKC 2,5/16-ST-RF 1947191 50 FKC 2,5/16-ST-S,08-RF 1925702 50 FKC 2,5/14-ST-S,08-RF 1925702 50 FKC 2,5/14-ST-S,08-RF 1925703 50 FKC 2,5/14-ST-S,08-RF 1925735 50 FKC 2,5/14-ST-S,08-RF 1925731 50 FKC 2,5/14-ST-S,08-RF 1925737 50 FKC 2,5/14-ST-S,08-RF 1925737 50 FKC 2,5/12-ST-S,08-RF 1925773 50 FKC 2,5/12-ST-S,08-RF 1925773 50 FKC 2,5/12-ST-S,08-RF 1925786 50 FKC 2,5/12-ST-S,08-RF 1925786 50 FKC 2,5/12-ST-S,08-RF 1925789 50 FKC 2,5/12-ST-S,08-RF 1925799 50 FKC 2,5/13-ST-S,08-RF 1925799 50	5.0 mm pitch, color: green				
FKC 2,5/4-ST-RF 1947078 50 FKC 2,5/5-ST-RF 1947081 50 FKC 2,5/5-ST-RF 1947094 50 FKC 2,5/7-ST-RF 1947104 50 FKC 2,5/7-ST-RF 1947104 50 FKC 2,5/7-ST-RF 1947117 50 FKC 2,5/9-ST-RF 1947117 50 FKC 2,5/9-ST-RF 1947120 50 FKC 2,5/10-ST-RF 1947133 50 FKC 2,5/10-ST-RF 1947146 50 FKC 2,5/11-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947162 50 FKC 2,5/13-ST-RF 1947162 50 FKC 2,5/13-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947189 50 FKC 2,5/3-ST-S,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/5-ST-5,08-RF 1925715 50 FKC 2,5/5-ST-5,08-RF 1925731 50 FKC 2,5/5-ST-5,08-RF 1925731 50 FKC 2,5/5-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/10-ST-5,08-RF 1925786 50 FKC 2,5/10-ST-5,08-RF 1925789 50 FKC 2,5/13-ST-5,08-RF 1925799 50	FKC 2,5/ 2-ST-RF	1947052	50		
FKC 2,5/5-ST-RF 1947081 50 FKC 2,5/6-ST-RF 1947094 50 FKC 2,5/6-ST-RF 1947104 50 FKC 2,5/8-ST-RF 1947117 50 FKC 2,5/8-ST-RF 1947117 50 FKC 2,5/8-ST-RF 1947120 50 FKC 2,5/10-ST-RF 1947123 50 FKC 2,5/10-ST-RF 1947133 50 FKC 2,5/11-ST-RF 1947146 50 FKC 2,5/13-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947162 50 FKC 2,5/13-ST-RF 1947162 50 FKC 2,5/13-ST-RF 1947163 50 FKC 2,5/13-ST-RF 1947185 50 FKC 2,5/13-ST-RF 1947191 50 FKC 2,5/13-ST-RF 1947191 50 FKC 2,5/13-ST-RF 1947191 50 FKC 2,5/13-ST-S,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925713 50 FKC 2,5/6-ST-5,08-RF 1925731 50 FKC 2,5/8-ST-5,08-RF 1925731 50 FKC 2,5/8-ST-5,08-RF 1925731 50 FKC 2,5/8-ST-5,08-RF 1925731 50 FKC 2,5/8-ST-5,08-RF 1925737 50 FKC 2,5/8-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/13-ST-5,08-RF 1925779 50 FKC 2,5/13-ST-5,08-RF 1925786 50 FKC 2,5/13-ST-5,08-RF 1925799 50	FKC 2,5/ 3-ST-RF	1947065	50		
FKC 2,5/ 6-ST-RF 1947094 50 FKC 2,5/ 7-ST-RF 1947104 50 FKC 2,5/ 8-ST-RF 1947117 50 FKC 2,5/ 9-ST-RF 1947117 50 FKC 2,5/ 9-ST-RF 1947120 50 FKC 2,5/ 10-ST-RF 1947133 50 FKC 2,5/ 10-ST-RF 1947146 50 FKC 2,5/ 13-ST-RF 1947146 50 FKC 2,5/ 13-ST-RF 1947162 50 FKC 2,5/ 13-ST-RF 1947162 50 FKC 2,5/ 13-ST-RF 1947162 50 FKC 2,5/ 13-ST-RF 1947175 50 FKC 2,5/ 13-ST-RF 1947188 50 FKC 2,5/ 13-ST-RF 1947191 50 5.08 mm pitch, color: green FKC 2,5/ 2-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925713 50 FKC 2,5/ 3-ST-5,08-RF 1925731 50 FKC 2,5/ 3-ST-5,08-RF 1925730 50 FKC 2,5/ 3-ST-5,08-RF 1925773 50 FKC 2,5/ 3-ST-5,08-RF 1925776 50 FKC 2,5/ 3-ST-5,08-RF 1925779 50 FKC 2,5/ 3-ST-5,08-RF 1925779 50	FKC 2,5/ 4-ST-RF	1947078	50		
FKC 2,5/7-ST-RF 1947104 50 FKC 2,5/8-ST-RF 1947117 50 FKC 2,5/9-ST-RF 19471120 50 FKC 2,5/10-ST-RF 1947133 50 FKC 2,5/10-ST-RF 1947133 50 FKC 2,5/11-ST-RF 1947146 50 FKC 2,5/13-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947155 50 FKC 2,5/14-ST-RF 1947175 50 FKC 2,5/14-ST-RF 1947175 50 FKC 2,5/14-ST-RF 1947181 50 FKC 2,5/16-ST-RF 1947191 50 5.08 mm pitch, color: green FKC 2,5/2-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925703 50 FKC 2,5/6-ST-5,08-RF 192573 50 FKC 2,5/6-ST-5,08-RF 192573 50 FKC 2,5/9-ST-5,08-RF 192573 50 FKC 2,5/9-ST-5,08-RF 192573 50 FKC 2,5/9-ST-5,08-RF 1925773 50 FKC 2,5/9-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/11-ST-5,08-RF 1925776 50 FKC 2,5/11-ST-5,08-RF 1925776 50 FKC 2,5/11-ST-5,08-RF 1925776 50 FKC 2,5/12-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925789 50	FKC 2,5/ 5-ST-RF	1947081	50		
FKC 2,5/ 8-ST-RF 1947117 50 FKC 2,5/ 9-ST-RF 1947120 50 FKC 2,5/10-ST-RF 1947133 50 FKC 2,5/11-ST-RF 1947136 50 FKC 2,5/11-ST-RF 1947146 50 FKC 2,5/12-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947152 50 FKC 2,5/13-ST-RF 1947158 50 FKC 2,5/13-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947191 50 5.08 mm pitch, color: green FKC 2,5/ 2-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925731 50 FKC 2,5/ 3-ST-5,08-RF 1925737 50 FKC 2,5/ 3-ST-5,08-RF 1925737 50 FKC 2,5/ 3-ST-5,08-RF 1925773 50 FKC 2,5/ 3-ST-5,08-RF 1925773 50 FKC 2,5/13-ST-5,08-RF 1925773 50 FKC 2,5/13-ST-5,08-RF 1925786 50 FKC 2,5/13-ST-5,08-RF 1925789 50	FKC 2,5/ 6-ST-RF	1947094	50		
FKC 2,5/ 9-ST-RF 1947120 50 FKC 2,5/10-ST-RF 1947133 50 FKC 2,5/11-ST-RF 1947146 50 FKC 2,5/11-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947162 50 FKC 2,5/13-ST-RF 1947155 50 FKC 2,5/14-ST-RF 1947188 50 FKC 2,5/15-ST-RF 1947181 50 FKC 2,5/16-ST-RF 1947191 50 S08 mm pitch, color: green FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925713 50 FKC 2,5/3-ST-5,08-RF 1925713 50 FKC 2,5/3-ST-5,08-RF 1925731 50 FKC 2,5/3-ST-5,08-RF 1925757 50 FKC 2,5/3-ST-5,08-RF 1925750 50 FKC 2,5/10-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925799 50	FKC 2,5/ 7-ST-RF	1947104	50		
FKC 2,5/10-ST-RF 1947133 50 FKC 2,5/11-ST-RF 1947146 50 FKC 2,5/12-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947152 50 FKC 2,5/13-ST-RF 1947155 50 FKC 2,5/13-ST-RF 1947175 50 FKC 2,5/14-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947191 50 50.8 mm pitch, color: green FKC 2,5/2-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925713 50 FKC 2,5/3-ST-5,08-RF 1925731 50 FKC 2,5/3-ST-5,08-RF 1925760 50 FKC 2,5/13-ST-5,08-RF 1925760 50 FKC 2,5/13-ST-5,08-RF 1925773 50 FKC 2,5/13-ST-5,08-RF 1925786 50 FKC 2,5/13-ST-5,08-RF 1925786 50 FKC 2,5/13-ST-5,08-RF 1925789 50 FKC 2,5/13-ST-5,08-RF 1925789 50	FKC 2,5/ 8-ST-RF	1947117	50		
FKC 2,5/11-ST-RF 1947146 50 FKC 2,5/12-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947162 50 FKC 2,5/13-ST-RF 1947175 50 FKC 2,5/14-ST-RF 1947175 50 FKC 2,5/14-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947191 50 5.08 mm pitch, color: green FKC 2,5/ 2-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925715 50 FKC 2,5/ 5-ST-5,08-RF 1925728 50 FKC 2,5/ 6-ST-5,08-RF 1925731 50 FKC 2,5/ 6-ST-5,08-RF 1925737 50 FKC 2,5/ 6-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/10-ST-5,08-RF 1925776 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925789 50 FKC 2,5/13-ST-5,08-RF 1925789 50	FKC 2,5/ 9-ST-RF	1947120	50		
FKC 2,5/12-ST-RF 1947159 50 FKC 2,5/13-ST-RF 1947162 50 FKC 2,5/13-ST-RF 1947175 50 FKC 2,5/14-ST-RF 1947175 50 FKC 2,5/16-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947191 50 5.08 mm pitch, color: green FKC 2,5/ 2-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925702 50 FKC 2,5/ 5-ST-5,08-RF 1925731 50 FKC 2,5/ 5-ST-5,08-RF 1925731 50 FKC 2,5/ 6-ST-5,08-RF 1925731 50 FKC 2,5/ 7-ST-5,08-RF 1925737 50 FKC 2,5/ 9-ST-5,08-RF 1925737 50 FKC 2,5/ 9-ST-5,08-RF 1925737 50 FKC 2,5/ 1-ST-5,08-RF 1925730 50 FKC 2,5/ 1-ST-5,08-RF 1925773 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/13-ST-5,08-RF 1925789 50 FKC 2,5/13-ST-5,08-RF 1925789 50	FKC 2,5/10-ST-RF	1947133	50		
FKC 2,5/13-ST-RF 1947162 50 FKC 2,5/14-ST-RF 1947175 50 FKC 2,5/14-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947191 50 5.08 mm pitch, color: green FKC 2,5/2-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925715 50 FKC 2,5/5-ST-5,08-RF 1925715 50 FKC 2,5/5-ST-5,08-RF 1925731 50 FKC 2,5/5-ST-5,08-RF 1925730 50 FKC 2,5/13-ST-5,08-RF 1925760 50 FKC 2,5/13-ST-5,08-RF 1925786 50 FKC 2,5/13-ST-5,08-RF 1925786 50 FKC 2,5/13-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925799 50	FKC 2,5/11-ST-RF	1947146	50		
FKC 2,5/14-ST-RF 1947175 50 FKC 2,5/15-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947191 50 S.08 mm pitch, color: green FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925715 50 FKC 2,5/5-ST-5,08-RF 1925728 50 FKC 2,5/5-ST-5,08-RF 1925731 50 FKC 2,5/5-ST-5,08-RF 1925731 50 FKC 2,5/3-ST-5,08-RF 1925730 50 FKC 2,5/10-ST-5,08-RF 1925730 50 FKC 2,5/10-ST-5,08-RF 1925730 50 FKC 2,5/10-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925789 50 FKC 2,5/13-ST-5,08-RF 1925789 50	FKC 2,5/12-ST-RF	1947159	50		
FKC 2,5/15-ST-RF 1947188 50 FKC 2,5/16-ST-RF 1947191 50 5.08 mm pitch, color: green FKC 2,5/ 2-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925715 50 FKC 2,5/ 4-ST-5,08-RF 1925728 50 FKC 2,5/ 5-ST-5,08-RF 1925731 50 FKC 2,5/ 6-ST-5,08-RF 1925731 50 FKC 2,5/ 8-ST-5,08-RF 1925737 50 FKC 2,5/ 8-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925789 50 FKC 2,5/13-ST-5,08-RF 1925789 50	FKC 2,5/13-ST-RF	1947162	50		
FKC 2,5/16-ST-RF 1947191 50 5.08 mm pitch, color: green FKC 2,5/ 2-ST-5,08-RF 1925702 50 FKC 2,5/ 3-ST-5,08-RF 1925715 50 FKC 2,5/ 5-ST-5,08-RF 1925728 50 FKC 2,5/ 6-ST-5,08-RF 1925731 50 FKC 2,5/ 6-ST-5,08-RF 1925734 50 FKC 2,5/ 7-ST-5,08-RF 1925744 50 FKC 2,5/ 9-ST-5,08-RF 1925757 50 FKC 2,5/ 9-ST-5,08-RF 1925757 50 FKC 2,5/ 9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925789 50 FKC 2,5/13-ST-5,08-RF 1925789 50	FKC 2,5/14-ST-RF	1947175	50		
5.08 mm pitch, color: green FKC 2,5/ 2-ST-5,08-RF 1925692 50 FKC 2,5/ 3-ST-5,08-RF 1925702 50 FKC 2,5/ 4-ST-5,08-RF 1925715 50 FKC 2,5/ 5-ST-5,08-RF 1925731 50 FKC 2,5/ 7-ST-5,08-RF 1925731 50 FKC 2,5/ 8-ST-5,08-RF 1925744 50 FKC 2,5/ 8-ST-5,08-RF 1925757 50 FKC 2,5/ 9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/10-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925789 50 FKC 2,5/13-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/15-ST-RF	1947188	50		
FKC 2,5/2-ST-5,08-RF 1925692 50 FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925715 50 FKC 2,5/5-ST-5,08-RF 1925728 50 FKC 2,5/6-ST-5,08-RF 1925731 50 FKC 2,5/7-ST-5,08-RF 1925744 50 FKC 2,5/8-ST-5,08-RF 1925757 50 FKC 2,5/9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/13-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/16-ST-RF	1947191	50		
FKC 2,5/3-ST-5,08-RF 1925702 50 FKC 2,5/3-ST-5,08-RF 1925715 50 FKC 2,5/5-SST-5,08-RF 1925728 50 FKC 2,5/6-ST-5,08-RF 1925731 50 FKC 2,5/6-ST-5,08-RF 1925744 50 FKC 2,5/8-ST-5,08-RF 1925757 50 FKC 2,5/9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925765 50 FKC 2,5/10-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/11-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925799 50	5.08 mm pitch, color: green				
FKC 2,5/4-ST-5,08-RF 1925715 50 FKC 2,5/5-ST-5,08-RF 1925728 50 FKC 2,5/6-ST-5,08-RF 1925731 50 FKC 2,5/7-ST-5,08-RF 1925744 50 FKC 2,5/8-8-T-5,08-RF 1925757 50 FKC 2,5/9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/13-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/ 2-ST-5,08-RF	1925692	50		
FKC 2,5/5-ST-5,08-RF 1925728 50 FKC 2,5/6-ST-5,08-RF 1925731 50 FKC 2,5/7-ST-5,08-RF 1925744 50 FKC 2,5/8-ST-5,08-RF 1925757 50 FKC 2,5/9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/ 3-ST-5,08-RF	1925702	50		
FKC 2,5/6-ST-5,08-RF 1925731 50 FKC 2,5/7-ST-5,08-RF 1925744 50 FKC 2,5/8-ST-5,08-RF 1925757 50 FKC 2,5/9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/ 4-ST-5,08-RF	1925715	50		
FKC 2,5/7-ST-5,08-RF 1925744 50 FKC 2,5/8-ST-5,08-RF 1925757 50 FKC 2,5/9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/ 5-ST-5,08-RF	1925728	50		
FKC 2,5/8-ST-5,08-RF 1925757 50 FKC 2,5/9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/ 6-ST-5,08-RF	1925731	50		
FKC 2,5/9-ST-5,08-RF 1925760 50 FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/ 7-ST-5,08-RF	1925744	50		
FKC 2,5/10-ST-5,08-RF 1925773 50 FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/ 8-ST-5,08-RF	1925757	50		
FKC 2,5/11-ST-5,08-RF 1925786 50 FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/ 9-ST-5,08-RF	1925760	50		
FKC 2,5/12-ST-5,08-RF 1925799 50 FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/10-ST-5,08-RF	1925773	50		
FKC 2,5/13-ST-5,08-RF 1925809 50	FKC 2,5/11-ST-5,08-RF	1925786	50		
· · · · · · · · · · · · · · · · · · ·	FKC 2,5/12-ST-5,08-RF	1925799	50		
FKC 2,5/14-ST-5,08-RF 1925812 50	FKC 2,5/13-ST-5,08-RF	1925809	50		
	FKC 2,5/14-ST-5,08-RF	1925812	50		

Ordering data				
Туре	Order No.	Pcs. / Pkt		
,,,				
<u> </u>				
<u> </u>				
5.08 mm pitch, color: green				
FKC 2,5/ 2-ST-5,08-LR	1792517	50		
FKC 2,5/ 3-ST-5,08-LR	1792520	50		
FKC 2,5/ 4-ST-5,08-LR	1792533	50		
FKC 2,5/ 5-ST-5,08-LR	1792546	50		
FKC 2,5/ 6-ST-5,08-LR	1792559	50		
FKC 2,5/ 7-ST-5,08-LR	1792562	50		
FKC 2,5/ 8-ST-5,08-LR	1792575	50		
FKC 2,5/ 9-ST-5,08-LR	1792588	50		
FKC 2,5/10-ST-5,08-LR	1792591	50		
FKC 2,5/11-ST-5,08-LR	1792601	50		
FKC 2,5/12-ST-5,08-LR	1792614	50		
FKC 2,5/13-ST-5,08-LR	1810900	50		
FKC 2,5/14-ST-5,08-LR	1810913	50		
FKC 2,5/15-ST-5,08-LR	1810926	50		
FKC 2,5/16-ST-5,08-LR	1810939	50		

1925825

1925838

50

50

FKC 2,5/15-ST-5,08-RF

FKC 2.5/16-ST-5.08-RF

Plugs with push-in spring connection



- Fast conductor connection, thanks to push-in spring connection
- Versions with and without a screw flange
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

FKCS 2,5/...-ST(F)-...

- With actuation shaft for screwdriver, comfortable "two-hand operation"

FKCT 2,5/...-ST(F)-....

- The cable connection area of the FKCT 2,5/... is located deeper than that of the FKC 2,5/... or the FKCS 2,5/...

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

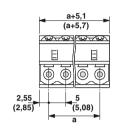
2) CSA data for FKCT 2,5/...-ST(F) on request.



With screwdriver actuation shaft and test connection

CB CB

Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
	Marker cards SK 5/3,8 or SK 5,08/3,8	798	
	Strain relief STZFKC-5,08	837	
*	Coding profile CP-MSTB Order No. 1734634	38	
	Ferrules with and without plastic sleeve	834	
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
	Test plug MPS	831	

Technical data	
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	lıııııı
Solid / stranded	[mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleev	
Insulation coordination	, in
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	

	121) / 2.5	
	320	
	5 / 5.08	
0.2 - 2.5	/ 0.2 - 2.5	
	0.25 - 2.5	
	0.25 - 2.5	
	,	
	-/-	
	0.5 - 1	
	0.5 - 1	
III/3	III/2	II / 2
250	320	630
4	4	4
В	С	D
300	-	300
10	-	10
26 - 12	- - C	26 - 12
В	С	D
	-	•
	-	-
-	-	-
	10	
	PA/I V0	
	VU	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	FKCS 2,5/ 2-ST	1974737	50
3	10.00	FKCS 2,5/ 3-ST	1974740	50
4	15.00	FKCS 2,5/ 4-ST	1974753	50
5	20.00	FKCS 2,5/ 5-ST	1974766	50
6	25.00	FKCS 2,5/ 6-ST	1974779	50
7	30.00	FKCS 2,5/ 7-ST	1974782	50
8	35.00	FKCS 2,5/ 8-ST	1974795	50
9	40.00	FKCS 2,5/ 9-ST	1974805	50
10	45.00	FKCS 2,5/10-ST	1974818	50
11	50.00	FKCS 2,5/11-ST	1974821	50
12	55.00	FKCS 2,5/12-ST	1974834	50
13	60.00	FKCS 2,5/13-ST	1974847	50
14	65.00	FKCS 2,5/14-ST	1974850	50
15	70.00	FKCS 2,5/15-ST	1974863	50
16	75.00	FKCS 2,5/16-ST	1974876	50
		5.08 mm pitch, color: green		
2	5.08	FKCS 2,5/ 2-ST-5,08	1975079	50
3	10.16	FKCS 2,5/ 3-ST-5,08	1975082	50
4	15.24	FKCS 2,5/ 4-ST-5,08	1975095	50
5	20.32	FKCS 2,5/ 5-ST-5,08	1975105	50
6	25.40	FKCS 2,5/ 6-ST-5,08	1975118	50
7	30.48	FKCS 2,5/ 7-ST-5,08	1975121	50
8	35.56	FKCS 2,5/ 8-ST-5,08	1975134	50
9	40.64	FKCS 2,5/ 9-ST-5,08	1975147	50
10	45.72	FKCS 2,5/10-ST-5,08	1975150	50
11	50.80	FKCS 2,5/11-ST-5,08	1975163	50
12	55.88	FKCS 2,5/12-ST-5,08	1975176	50
13	60.96	FKCS 2,5/13-ST-5,08	1975189	50
14	66.04	FKCS 2,5/14-ST-5,08	1975192	50
15	71.12	FKCS 2,5/15-ST-5,08	1975202	50
16	76.20	FKCS 2,5/16-ST-5,08	1975215	50



With screwdriver actuation shaft, test connection and screw flange



With connection area moved to the top and test connection



With connection area moved to the top, test connection and screw flange

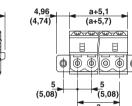
CB CB

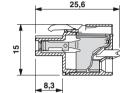
Dimensional drawing

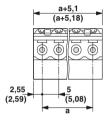


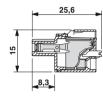
(F) CB

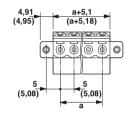
Dimensional drawing





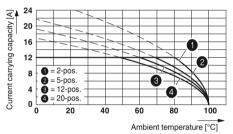




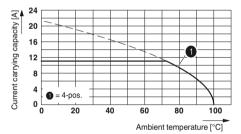


Representative derating curves of the above-mentioned plugs Type: FKCT 2,5/...-ST with MSTBO 2,5/...-G1L(R)

Type: FKCT 2,5/...-ST with MSTB 2,5/...-G





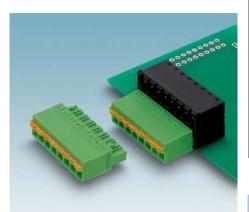


Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKCS 2,5/ 2-STF	1974928	50	
FKCS 2,5/ 3-STF	1974931	50	
FKCS 2,5/ 4-STF	1974944	50	
FKCS 2,5/ 5-STF	1974957	50	
FKCS 2,5/ 6-STF	1974960	50	
FKCS 2,5/ 7-STF	1974973	50	
FKCS 2,5/ 8-STF	1974986	50	
FKCS 2,5/ 9-STF	1974999	50	
FKCS 2,5/10-STF	1975008	50	
FKCS 2,5/11-STF	1975011	50	
FKCS 2,5/12-STF	1975024	50	
FKCS 2,5/13-STF	1975037	50	
FKCS 2,5/14-STF	1975040	50	
FKCS 2,5/15-STF	1975053	50	
FKCS 2,5/16-STF	1975066	50	
5.08 mm pitch, color: green			
FKCS 2,5/ 2-STF-5,08	1975260	50	
FKCS 2,5/ 3-STF-5,08	1975273	50	
FKCS 2,5/ 4-STF-5,08	1975286	50	
FKCS 2,5/ 5-STF-5,08	1975299	50	
FKCS 2,5/ 6-STF-5,08	1975309	50	
FKCS 2,5/ 7-STF-5,08	1975312	50	
FKCS 2,5/ 8-STF-5,08	1975325	50	
FKCS 2,5/ 9-STF-5,08	1975338	50	
FKCS 2,5/10-STF-5,08	1975341	50	
FKCS 2,5/11-STF-5,08	1975354	50	
FKCS 2,5/12-STF-5,08	1975367	50	
FKCS 2,5/13-STF-5,08	1975370	50	
FKCS 2,5/14-STF-5,08	1975383	50	
FKCS 2,5/15-STF-5,08	1975396	50	
FKCS 2,5/16-STF-5,08	1975406	50	

Ordering date	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCT 2,5/ 2-ST	1909210	50
FKCT 2,5/ 3-ST	1909223	50
FKCT 2,5/ 4-ST	1909236	50
FKCT 2,5/ 5-ST	1909249	50
FKCT 2,5/ 6-ST	1909252	50
FKCT 2,5/ 7-ST	1909265	50
FKCT 2,5/ 8-ST	1909278	50
FKCT 2,5/ 9-ST	1909281	50
FKCT 2,5/10-ST	1909294	50
FKCT 2,5/11-ST	1909304	50
FKCT 2,5/12-ST	1909317	50
FKCT 2,5/13-ST	1909320	50
FKCT 2,5/14-ST	1909333	50
FKCT 2,5/15-ST	1909346	50
FKCT 2,5/16-ST	1909359	50
5.08 mm pitch, color: green		
FKCT 2,5/ 2-ST-5,08	1902110	50
FKCT 2,5/ 3-ST-5,08	1902123	50
FKCT 2,5/ 4-ST-5,08	1902136	50
FKCT 2,5/ 5-ST-5,08	1902149	50
FKCT 2,5/ 6-ST-5,08	1902152	50
FKCT 2,5/ 7-ST-5,08	1902165	50
FKCT 2,5/ 8-ST-5,08	1902178	50
FKCT 2,5/ 9-ST-5,08	1902181	50
FKCT 2,5/10-ST-5,08	1902194	50
FKCT 2,5/11-ST-5,08	1902204	50
FKCT 2,5/12-ST-5,08	1902217	50
FKCT 2,5/13-ST-5,08	1902220	50
FKCT 2,5/14-ST-5,08	1902233	50
FKCT 2,5/15-ST-5,08	1902246	50
FKCT 2,5/16-ST-5,08	1902259	50

Ordering data			
Туре	Order No.	Pcs. / Pk	
5.0 mm pitch, color: green			
FKCT 2,5/ 2-STF	1909401	50	
FKCT 2,5/ 3-STF	1909414	50	
FKCT 2,5/ 4-STF	1909427	50	
FKCT 2,5/ 5-STF	1909430	50	
FKCT 2,5/ 6-STF	1909443	50	
FKCT 2,5/ 7-STF	1909456	50	
FKCT 2,5/ 8-STF	1909469	50	
FKCT 2,5/ 9-STF	1909472	50	
FKCT 2,5/10-STF	1909485	50	
FKCT 2,5/11-STF	1909498	50	
FKCT 2,5/12-STF	1909508	50	
FKCT 2,5/13-STF	1909511	50	
FKCT 2,5/14-STF	1909524	50	
FKCT 2,5/15-STF	1909537	50	
FKCT 2,5/16-STF	1909540	50	
5.08 mm pitch, color: green			
FKCT 2,5/ 2-STF-5,08	1902301	50	
FKCT 2,5/ 3-STF-5,08	1902314	50	
FKCT 2,5/ 4-STF-5,08	1902327	50	
FKCT 2,5/ 5-STF-5,08	1902330	50	
FKCT 2,5/ 6-STF-5,08	1902343	50	
FKCT 2,5/ 7-STF-5,08	1902356	50	
FKCT 2,5/ 8-STF-5,08	1902369	50	
FKCT 2,5/ 9-STF-5,08	1902372	50	
FKCT 2,5/10-STF-5,08	1902385	50	
FKCT 2,5/11-STF-5,08	1902398	50	
FKCT 2,5/12-STF-5,08	1902408	50	
FKCT 2,5/13-STF-5,08	1902411	50	
FKCT 2,5/14-STF-5,08	1902424	50	
FKCT 2,5/15-STF-5,08	1902437	50	
FKCT 2,5/16-STF-5,08	1902440	50	

Plugs with push-in spring connection



- Extremely flat design of just 10.9 mm
- Connection space for conductor cross sections of up to 2.5 mm²
- Maximum contact and packing density in combination with double-level CCDN 2,5 headers
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Versions with and without a screw
- Higher numbers of positions up to 18-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

2) UL/CUL on request.

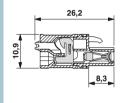
3) The insulation material type of the 5.08 mm pitch is Pa and the insulation material group is I.

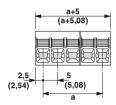


Plug with flat design



Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
*	Coding profile CP-MSTB Order No. 1734634	38	
a .	Marker cards SK 5/3,8	798	
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517		
	Ferrules with and without plastic sleeve	834	
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		

D

Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]		12¹) / 1.5	
Rated insulation voltage for pollution degree 2	[V]		320	
Pitch	[mm]		5 / 5.08	
Connection capacity				
Solid / stranded [mm ²]	/ [mm²] / AWG	0.2 - 1.5	6/0.2-2.5/	24 - 16
Stranded with ferrules without plastic sleeve	[mm ²]		0.25 - 1.5	
Stranded with ferrules with plastic sleeve	[mm ²]		0.25 - 1.5	
Multi-conductor connection capacity (two conductors with the sar	ne cross section)			
Solid / stranded	[mm ²]		-/-	
Stranded with ferrules without plastic sleeve	[mm ²]		-	
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		-	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11/2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]		-	-
Nominal current	[A]		-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]		-	-
Nominal current	[A]		-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]		10	
Type of insulation material / insulation material group)		PBT / I ³)	
Inflammability class according to UL 94			V0	

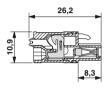
		Ordering dat	a	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	FKCN 2,5/ 2-ST	1732742	50
3	10.00	FKCN 2,5/ 3-ST	1732755	50
4	15.00	FKCN 2,5/ 4-ST	1732768	50
5	20.00	FKCN 2,5/ 5-ST	1732771	50
6	25.00	FKCN 2,5/ 6-ST	1732784	50
7	30.00	FKCN 2,5/ 7-ST	1732797	50
8	35.00	FKCN 2,5/ 8-ST	1732807	50
9	40.00	FKCN 2,5/ 9-ST	1732810	50
10	45.00	FKCN 2,5/10-ST	1732823	50
11	50.00	FKCN 2,5/11-ST	1732833	50
12	55.00	FKCN 2,5/12-ST	1732836	50
13	60.00	FKCN 2,5/13-ST	1732849	50
14	65.00	FKCN 2,5/14-ST	1732852	50
15	70.00	FKCN 2,5/15-ST	1732865	50
16	75.00	FKCN 2,5/16-ST	1732878	50
		5.08 mm pitch, color: green		
2	5.08	FKCN 2,5/ 2-ST-5,08	1754568	50
3	10.16	FKCN 2,5/ 3-ST-5,08	1754571	50
4	15.24	FKCN 2,5/ 4-ST-5,08	1754584	50
5	20.32	FKCN 2,5/ 5-ST-5,08	1754597	50
6	25.40	FKCN 2,5/ 6-ST-5,08	1754607	50
7	30.48	FKCN 2,5/ 7-ST-5,08	1754610	50
8	35.56	FKCN 2,5/ 8-ST-5,08	1754623	50
9	40.64	FKCN 2,5/ 9-ST-5,08	1754636	50
10	45.72	FKCN 2,5/10-ST-5,08	1754649	50
11	50.80	FKCN 2,5/11-ST-5,08	1754652	50
12	55.88	FKCN 2,5/12-ST-5,08	1754665	50
13	60.96	FKCN 2,5/13-ST-5,08	1754678	50
14	66.04	FKCN 2,5/14-ST-5,08	1754681	50
15	71.12	FKCN 2,5/15-ST-5,08	1754694	50
16	76.20	FKCN 2,5/16-ST-5,08	1754704	50

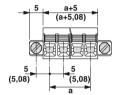


With screw flange



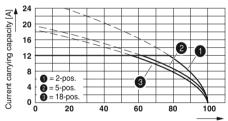
Dimensional drawing





Representative derating curve

Type: FKCN 2,5/...-ST with CCDN 2,5/...-G1 P26 THR



Ambient temperature [°C]

Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCN 2,5/ 2-STF	1732962	50
FKCN 2,5/ 3-STF	1732975	50
FKCN 2,5/ 4-STF	1732988	50
FKCN 2,5/ 5-STF	1732991	50
FKCN 2,5/ 6-STF	1733000	50
FKCN 2,5/ 7-STF	1733013	50
FKCN 2,5/ 8-STF	1733026	50
FKCN 2,5/ 9-STF	1733039	50
FKCN 2,5/10-STF	1733042	50
FKCN 2,5/11-STF	1733050	50
FKCN 2,5/12-STF	1733055	50
FKCN 2,5/13-STF	1733068	50
FKCN 2,5/14-STF	1733071	50
FKCN 2,5/15-STF	1733084	50
FKCN 2,5/16-STF	1733097	50
5.08 mm pitch, color: green		
FKCN 2,5/ 2-STF-5,08	1754791	50
FKCN 2,5/ 3-STF-5,08	1754801	50
FKCN 2,5/ 4-STF-5,08	1754814	50
FKCN 2,5/ 5-STF-5,08	1754827	50
FKCN 2,5/ 6-STF-5,08	1754830	50
FKCN 2,5/ 7-STF-5,08	1754843	50
FKCN 2,5/ 8-STF-5,08	1754856	50
FKCN 2,5/ 9-STF-5,08	1754869	50
FKCN 2,5/10-STF-5,08	1754872	50
FKCN 2,5/11-STF-5,08	1754885	50
FKCN 2,5/12-STF-5,08	1754898	50
FKCN 2,5/13-STF-5,08	1754908	50
FKCN 2,5/14-STF-5,08	1754911	50
FKCN 2,5/15-STF-5,08	1754924	50
FKCN 2,5/16-STF-5,08	1754937	50

Plug with push-in spring connection



- Fast conductor connection, thanks to push-in spring connection
- Two test connections to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors
- Versions with and without a screw flange
- You can find higher numbers of positions

www.phoenixcontact.net/products

FKCVR 2,5/...-ST-...

- Conductor entry on the coded side of the connector

FKCVW 2,5/...-ST-...

- Conductor entry on the rippled side of the connector

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

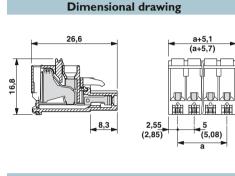
The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



Conductor entry facing coding side

CB CB



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories		
For all types	Туре	Page
. /	Marker cards SK 5/3,8 orSK 5,08/3,8	798
1	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
*	Coding profile CP-MSTB Order No. 1734634	38
	Ferrules with and without plastic sleeve	834
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Mill	Test plug MPS	831

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [r	mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the	he same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	aroun
Inflammability class according to UL 94	group

	121) / 2.5	
	320	
	5/5.08	
0.2 - 2.5	/ 0.2 - 2.5	
	0.25 - 2.5	
	0.25 - 2.5	
	-/-	
	- 0.5 - 1.5	
	0.5 - 1.5	
III/3	III/2	II / 2
250	320	630
4	4	4
В	С	D
300	-	300
10	-	10
26 - 12	-	26 - 12
В	С	D
-	-	-
-	-	-
-	-	-
	10	
	PA/I	
	V0	

		Oudovina do	4_	
		Ordering da		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	FKCVR 2,5/ 2-ST	1909715	50
3	10.00	FKCVR 2,5/ 3-ST	1909728	50
4	15.00	FKCVR 2,5/ 4-ST	1909731	50
5	20.00	FKCVR 2,5/ 5-ST	1909744	50
7	30.00	FKCVR 2,5/ 7-ST	1909760	50
8	35.00	FKCVR 2,5/ 8-ST	1909773	50
9	40.00	FKCVR 2,5/ 9-ST	1909786	50
10	45.00	FKCVR 2,5/10-ST	1909799	50
11	50.00	FKCVR 2,5/11-ST	1909809	50
12	55.00	FKCVR 2,5/12-ST	1909812	50
13	60.00	FKCVR 2,5/13-ST	1909825	50
14	65.00	FKCVR 2,5/14-ST	1909838	50
15	70.00	FKCVR 2,5/15-ST	1909841	50
16	75.00	FKCVR 2,5/16-ST	1909854	50
		5.08 mm pitch, color: green		
2	5.08	FKCVR 2,5/ 2-ST-5,08	1873951	50
3	10.16	FKCVR 2,5/ 3-ST-5,08	1873964	50
4	15.24	FKCVR 2,5/ 4-ST-5,08	1873977	50
5	30.32	FKCVR 2,5/ 5-ST-5,08	1873980	50
6	25.40	FKCVR 2,5/ 6-ST-5,08	1873993	50
7	30.48	FKCVR 2,5/ 7-ST-5,08	1874002	50
8	35.56	FKCVR 2,5/ 8-ST-5,08	1874015	50
9	40.64	FKCVR 2,5/ 9-ST-5,08	1874028	50
10	45.72	FKCVR 2,5/10-ST-5,08	1874031	50
11	50.80	FKCVR 2,5/11-ST-5,08	1874044	50
12	55.88	FKCVR 2,5/12-ST-5,08	1874057	50
13	60.96	FKCVR 2,5/13-ST-5,08	1874060	50
14	66.04	FKCVR 2,5/14-ST-5,08	1874073	50
15	71.12	FKCVR 2,5/15-ST-5,08	1874086	50
16	76.20	FKCVR 2,5/16-ST-5,08	1874099	50



Conductor entry facing coding side, with screw flange



Conductor entry facing rippled side



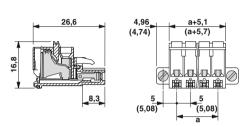
Conductor entry facing rippled side, with screw flange

CB CB

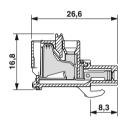
Dimensional drawing

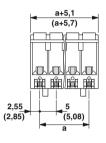


CB US CB

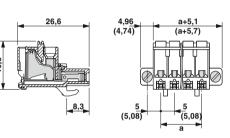


Dimensional drawing



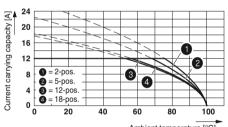


Dimensional drawing



Representative derating curve

Type: FKCVR 2,5/...-ST(-5,08) with MSTBA 2,5/...-G(-5,08)



Ambient temperatur	e [°C]
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Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCVR 2,5/ 2-STF	1909883	50
FKCVR 2,5/ 3-STF	1909896	50
FKCVR 2,5/ 4-STF	1909906	50
FKCVR 2,5/ 5-STF	1909919	50
FKCVR 2,5/ 7-STF	1909935	50
FKCVR 2,5/ 8-STF	1909948	50
FKCVR 2,5/ 9-STF	1909951	50
FKCVR 2,5/10-STF	1909964	50
FKCVR 2,5/11-STF	1909977	50
FKCVR 2,5/12-STF	1909980	50
FKCVR 2,5/13-STF	1909993	50
FKCVR 2,5/14-STF	1910005	50
FKCVR 2,5/15-STF	1910018	50
FKCVR 2,5/16-STF	1910021	50
5.08 mm pitch, color: green		
FKCVR 2,5/ 2-STF-5,08	1874109	50
FKCVR 2,5/ 3-STF-5,08	1874112	50
FKCVR 2,5/ 4-STF-5,08	1874125	50
FKCVR 2,5/ 5-STF-5,08	1874138	50
FKCVR 2,5/ 6-STF-5,08	1874141	50
FKCVR 2,5/ 7-STF-5,08	1874154	50
FKCVR 2,5/ 8-STF-5,08	1874167	50
FKCVR 2,5/ 9-STF-5,08	1874170	50
FKCVR 2,5/10-STF-5,08	1874183	50
FKCVR 2,5/11-STF-5,08	1874196	50
FKCVR 2,5/12-STF-5,08	1874206	50
FKCVR 2,5/13-STF-5,08	1874219	50
FKCVR 2,5/14-STF-5,08	1874222	50
FKCVR 2,5/15-STF-5,08	1874235	50
FKCVR 2,5/16-STF-5,08	1874248	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKCVW 2,5/ 2-ST	1910034	50	
FKCVW 2,5/ 3-ST	1910047	50	
FKCVW 2,5/ 4-ST	1910050	50	
FKCVW 2,5/ 5-ST	1910063	50	
FKCVW 2,5/ 7-ST	1910089	50	
FKCVW 2,5/ 8-ST	1910092	50	
FKCVW 2,5/ 9-ST	1910102	50	
FKCVW 2,5/10-ST	1910115	50	
FKCVW 2,5/11-ST	1910128	50	
FKCVW 2,5/12-ST	1910131	50	
FKCVW 2,5/13-ST	1910144	50	
FKCVW 2,5/14-ST	1910157	50	
FKCVW 2,5/15-ST	1910160	50	
FKCVW 2,5/16-ST	1910173	50	
5.08 mm pitch, color: green			
FKCVW 2,5/ 2-ST-5,08	1873650	50	
FKCVW 2,5/ 3-ST-5,08	1873663	50	
FKCVW 2,5/ 4-ST-5,08	1873676	50	
FKCVW 2,5/ 5-ST-5,08	1873689	50	
FKCVW 2,5/ 6-ST-5,08	1873692	50	
FKCVW 2,5/ 7-ST-5,08	1873702	50	
FKCVW 2,5/ 8-ST-5,08	1873715	50	
FKCVW 2,5/ 9-ST-5,08	1873728	50	
FKCVW 2,5/10-ST-5,08	1873731	50	
FKCVW 2,5/11-ST-5,08	1873744	50	
FKCVW 2,5/12-ST-5,08	1873757	50	
FKCVW 2,5/13-ST-5,08	1873760	50	
FKCVW 2,5/14-ST-5,08	1873773	50	
FKCVW 2,5/15-ST-5,08	1873786	50	

Ordering	data	
Туре	Order No.	Pcs. / Pk
5.0 mm pitch, color: green		
FKCVW 2,5/ 2-STF	1910209	50
FKCVW 2,5/ 3-STF	1910212	50
FKCVW 2,5/ 4-STF	1910225	50
FKCVW 2,5/ 5-STF	1910238	50
FKCVW 2,5/ 7-STF	1910254	50
FKCVW 2,5/ 8-STF	1910267	50
FKCVW 2,5/ 9-STF	1910270	50
FKCVW 2,5/10-STF	1910283	50
FKCVW 2,5/11-STF	1910296	50
FKCVW 2,5/12-STF	1910306	50
FKCVW 2,5/13-STF	1910319	50
FKCVW 2,5/14-STF	1910322	50
FKCVW 2,5/15-STF	1910335	50
FKCVW 2,5/16-STF	1910348	50
5.08 mm pitch, color: green		
FKCVW 2,5/ 2-STF-5,08	1873809	50
FKCVW 2,5/ 3-STF-5,08	1873812	50
FKCVW 2,5/ 4-STF-5,08	1873825	50
FKCVW 2,5/ 5-STF-5,08	1873838	50
FKCVW 2,5/ 6-STF-5,08	1873841	50
FKCVW 2,5/ 7-STF-5,08	1873854	50
FKCVW 2,5/ 8-STF-5,08	1873867	50
FKCVW 2,5/ 9-STF-5,08	1873870	50
FKCVW 2,5/10-STF-5,08	1873883	50
FKCVW 2,5/11-STF-5,08	1873896	50
FKCVW 2,5/12-STF-5,08	1873906	50
FKCVW 2,5/13-STF-5,08	1873919	50
FKCVW 2,5/14-STF-5,08	1873922	50
FKCVW 2,5/15-STF-5,08	1873935	50
FKCVW 2,5/16-STF-5,08	1873948	50

1873799

FKCVW 2,5/16-ST-5,08

Plug with push-in spring connection



- Front TWIN connection for 1.5 mm²
- Additional actuation option of 90° in relation to the conductor axis
- For 90° actuation in relation to the conductor axis, the TVFKCL 1.5 extended design is required in the lower level of the ME housing

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

1) Please observe the derating curves. Derating curves of further combination options on request.

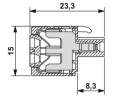


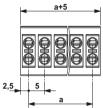
With double connection, short design

Accessories		
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
•	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	
u 2	Marker cards SK 5/3,8	798
	Ferrules with and without plastic sleeve	834
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section [A] / [mm²] Rated insulation voltage for pollution degree 2 [V] Pitch [mm] Connection capacity $[\text{mm}^2]\,/\,[\text{mm}^2]\,/\,\text{AWG}$ Solid / stranded Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded [mm²] Stranded with ferrules without plastic sleeve [mm²] Stranded with TWIN ferrule with plastic sleeve [mm²] Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [V] Rated surge voltage [kV] Use Group Approval data (UL/CUL) Nominal voltage [V] Nominal current AWG Connection capacity AWG Approval data (CSA) Use Group Nominal voltage [V] Nominal current [A] AWG Connection capacity AWG General data Stripping length [mm] Type of insulation material / insulation material group Inflammability class according to UL 94

10¹) / 1.5 320 5 0.2 - 1.5 / 0.2 - 1.5 / 24 - 16 0.25 - 1.5 0.25 - 1.5 -/			
320 5 0.2-1.5/0.2-1.5/24-16 0.25-1.5 0.25-1.5 -/- - III/3 III/2 II/2 250 320 630 4 4 4 4 B C D 300 - 300 8 - 8 24-16 - 24-16 B C D			
320 5 0.2-1.5/0.2-1.5/24-16 0.25-1.5 0.25-1.5 -/- - III/3 III/2 II/2 250 320 630 4 4 4 4 B C D 300 - 300 8 - 8 24-16 - 24-16 B C D			
320 5 0.2-1.5/0.2-1.5/24-16 0.25-1.5 0.25-1.5 -/- - III/3 III/2 II/2 250 320 630 4 4 4 4 B C D 300 - 300 8 - 8 24-16 - 24-16 B C D		101) / 1.5	
5 0.2-1.5/0.2-1.5/24-16 0.25-1.5 0.25-1.5 -/- - - III/3 III/2 II/2 250 320 630 4 4 4 4 B C D 300 - 300 8 - 8 24-16 - 24-16 B C D -		320	
0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		020	
0.25 - 1.5 -/		5	
0.25 - 1.5 -/			
0.25 - 1.5 -/	0.2 - 1.5	/ 0.2 - 1.5	/ 24 - 16
0.25 - 1.5 -/		0.25 - 1.5	
III / 3		0.25 - 1.5	
III / 3			
III / 3		-/-	
III / 3		-	
250 320 630 4 4 4 4 B C D 300 - 300 8 - 8 24-16 - 24-16 B C D 8 PA/I		-	
250 320 630 4 4 4 4 B C D 300 - 300 8 - 8 24-16 - 24-16 B C D 8 PA/I			
4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
B C D 300 - 300 8 - 8 24-16 - 24-16 B C D 8 PA/I			
300 - 300 8 - 8 24-16 - 24-16 B C D 8 PA/I			
8 - 8 24-16 - 24-16 B C D 8 PA/I	_	С	_
	300	-	300
		-	
		-	
PA/I	В	С	D
PA/I	-	-	-
PA/I	-	-	-
PA/I	-	-	-
PA/I			
VO			
• • • • • • • • • • • • • • • • • • • •		V0	

		Or
		Туре
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: gree
2	5.00	TVFKC 1,5/ 2-ST
3	10.00	TVFKC 1,5/ 3-ST
4	15.00	TVFKC 1,5/ 4-ST
5	20.00	TVFKC 1,5/ 5-ST
6	25.00	TVFKC 1,5/ 6-ST
7	30.00	TVFKC 1,5/ 7-ST
8	35.00	TVFKC 1,5/ 8-ST
9	40.00	TVFKC 1,5/ 9-ST
10	45.00	TVFKC 1,5/10-ST

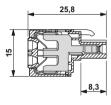
Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
TVFKC 1,5/ 2-ST	1713839	50		
TVFKC 1,5/ 3-ST	1713842	50		
TVFKC 1,5/ 4-ST	1713855	50		
TVFKC 1,5/ 5-ST	1713868	50		
TVFKC 1,5/ 6-ST	1713871	50		
TVFKC 1,5/ 7-ST	1713884	50		
TVFKC 1,5/ 8-ST	1713897	50		
TVFKC 1,5/ 9-ST	1713907	50		
TVFKC 1,5/10-ST	1713910	50		

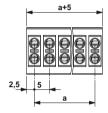


With double connection, long design



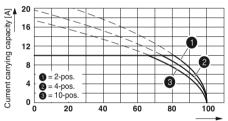
Dimensional drawing





Representative derating curve

Type: TVFKC 1,5/...-ST with MSTBA 2,5/...-G



Ambient temperature [°C]

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
TVFKCL 1,5/ 2-ST	1715921	50		
TVFKCL 1,5/3-ST	1715934	50		
TVFKCL 1,5/ 4-ST	1715947	50		
TVFKCL 1,5/5-ST	1715950	50		
TVFKCL 1,5/6-ST	1715963	50		
TVFKCL 1,5/7-ST	1715976	50		
TVFKCL 1,5/8-ST	1715989	50		
TVFKCL 1,5/9-ST	1715992	50		
TVFKCL 1,5/10-ST	1716001	50		

Plugs with push-in spring connection



- Front TWIN connection for 2.5 \mbox{mm}^2
- Integrated 2.3 mm Ø test connection
- DeviceNet-compliant design with a gold-plated contact system
- SK marking strips for DeviceNet color coding: SK 5,08/3,8 DN / order no. 1965458

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



With double connection

CB CB

Accessories **Dimensional drawing** For all types Туре Page Marking card, 4-color, for DeviceNet applications 5,08 SK 5,08/3,8 DN Order No. 1965458 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Coding profile CP-MSTB 38 Order No. 1734634 Note derating curves Ferrules with and without 834 Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 plastic sleeve Representation based on DIN EN 60512-5-2:2003-01

Crimping pliers for 0.25 to 6 mm² 1212034 Test plug MPS 831

Technical data	
Technical data in accordance to IEC / DIN VI)E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	· · · · · · · · · · · · · · · · · · ·
Solid / stranded	[mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleev	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	

	121) / 2.5	
	320	
	5.08	
0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 12
	0.25 - 2.5	
	0.25 - 1.5	
	-/-	
	-	
	0.5 - 1	
III/3	III/2	II / 2
320	320	630
4	4	4
В	С	D
300	-	300
10	-	10
26 - 12	-	26 - 12
В	С	D
-	-	-
-	-	-
-	-	-
	10	
	PA/I	
	V0	

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
5	20.32
7	30.48
8	35.56

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
TFKC 2,5/ 2-ST-5,08	1962600	50		
TFKC 2,5/ 3-ST-5,08	1962613	50		
TFKC 2,5/ 4-ST-5,08	1962626	50		
TFKC 2,5/ 5-ST-5,08	1962639	50		
TFKC 2,5/ 6-ST-5,08	1962642	50		
TFKC 2,5/ 7-ST-5,08	1962655	50		
TFKC 2,5/ 8-ST-5,08	1962668	50		
TFKC 2,5/ 9-ST-5,08	1962671	50		
TFKC 2,5/10-ST-5,08	1962684	50		
5.08 mm pitch, color: green, contact system: Gold-plated				
TFKC 2,5/ 5-ST-5,08 AU	1965461	50		

Connected conductor cross section = 2.5 mm²

Number of positions = see diagram

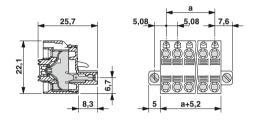
Reduction factor = 0.8



With double connection and screw flange

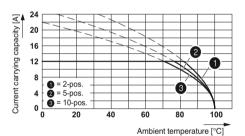
CB CB scheme

Dimensional drawing



Representative derating curve

Type: TFKC 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
TFKC 2,5/ 2-STF-5,08	1962697	50		
TFKC 2,5/ 3-STF-5,08	1962707	50		
TFKC 2,5/ 4-STF-5,08	1962710	50		
TFKC 2,5/ 5-STF-5,08	1962723	50		
TFKC 2,5/ 6-STF-5,08	1962736	50		
TFKC 2,5/ 7-STF-5,08	1962749	50		
TFKC 2,5/ 8-STF-5,08	1962752	50		
TFKC 2,5/ 9-STF-5,08	1962765	50		
TFKC 2,5/10-STF-5,08	1962778	50		
5.08 mm pitch, color: green, contact system: Gold-plated				
TFKC 2,5/ 5-STF-5,08 AU	1962590	50		
TFKC 2,5/ 7-STF-5,08 AU	1765748	50		
TFKC 2,5/ 8-STF-5,08 AU	1710272	50		

Inverted plugs with push-in spring connection



- Connectors with inverted contact system (pin contact)
- Can be combined with inverted headers and plugs for shock-proof applications
- Versions with and without a screw flange
- Versions with engagement noses for locking plugs with self-locking flanges
- SK 5/3,8 or SK 5,08/3,8 marker cards can be found on page 798

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The inverted contact system is explained on page 34.

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

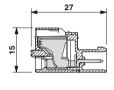
1) Please observe the derating curves. Derating curves of further combination options on request.

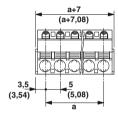


Inverted plug with push-in spring connection

CB CB

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
*	Coding section CR-MSTB Order No. 1734401	38	
	Strain relief STZFKC-5,08	837	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
	Ferrules with and without plastic sleeve	834	
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
1111	Test plug MPS	831	

Technical data		
Technical data in accordance to IEC / DIN VD	E	
Rated current / conductor cross section	[A] / [mm ²]	
Rated insulation voltage for pollution degree 2	! [V]	
Pitch	[mm]	
Connection capacity		
Solid / stranded	$[mm^2]/[mm^2]/AWG$	
Stranded with ferrules without plastic sleeve	[mm ²]	
Stranded with ferrules with plastic sleeve	[mm ²]	
Multi-conductor connection capacity (two conductors with	the same cross section)	
Solid / stranded	[mm ²]	
Stranded with ferrules without plastic sleeve	[mm ²]	
Stranded with TWIN ferrule with plastic sleeve	e [mm²]	
Insulation coordination		
Surge voltage category / pollution degree		
Rated insulation voltage	[V]	
Rated surge voltage	[kV]	
Approval data (UL/CUL)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
Approval data (CSA)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
General data		
Stripping length	[mm]	
Type of insulation material / insulation materia	l group	
Inflammability class according to UL 94		

	121) / 2.5	
	320	
	= / = 00	
	5 / 5.08	
00.05		/04 40
0.2 - 2.5	0.25 - 2.5 0.25 - 2.5	
	0.25 - 2.5	
	0.20 - 2.5	
	-/-	
	0.5 - 1	
III/3	III/2	II / 2
320	320	630
4	4	4
В	С	D
300	-	300
10	-	10
26 - 12	-	26 - 12
В	С	D
-	-	-
-	-	-
-	-	-
	10	
	10 PA/I	
	V0	
	٧0	

		Ordering data			
		Туре	Order No.	Pcs. / Pkt.	
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green			
2	5.00	FKIC 2,5/ 2-ST	1910678	50	
3	10.00	FKIC 2,5/ 3-ST	1910681	50	
4	15.00	FKIC 2,5/ 4-ST	1910694	50	
5	20.00	FKIC 2,5/ 5-ST	1910704	50	
6	25.00	FKIC 2,5/ 6-ST	1910717	50	
7	30.00	FKIC 2,5/ 7-ST	1910720	50	
8	35.00	FKIC 2,5/ 8-ST	1910733	50	
9	40.00	FKIC 2,5/ 9-ST	1910746	50	
10	45.00	FKIC 2,5/10-ST	1910759	50	
11	50.00	FKIC 2,5/11-ST	1910762	50	
12	55.00	FKIC 2,5/12-ST	1910775	50	
13	60.00	FKIC 2,5/13-ST	1910788	50	
14	65.00	FKIC 2,5/14-ST	1910791	50	
15	70.00	FKIC 2,5/15-ST	1910801	50	
16	75.00	FKIC 2,5/16-ST	1910814	50	
		5.08 mm pitch, color: green			
2	5.08	FKIC 2,5/ 2-ST-5,08	1873359	50	
3	10.16	FKIC 2,5/ 3-ST-5,08	1873362	50	
4	15.24	FKIC 2,5/ 4-ST-5,08	1873375	50	
5	20.32	FKIC 2,5/ 5-ST-5,08	1873388	50	
6	25.40	FKIC 2,5/ 6-ST-5,08	1873391	50	
7	30.48	FKIC 2,5/ 7-ST-5,08	1873401	50	
8	35.56	FKIC 2,5/ 8-ST-5,08	1873414	50	
9	40.64	FKIC 2,5/ 9-ST-5,08	1873427	50	
10	45.72	FKIC 2,5/10-ST-5,08	1873430	50	
11	50.80	FKIC 2,5/11-ST-5,08	1873443	50	
12	55.88	FKIC 2,5/12-ST-5,08	1873456	50	
13	60.96	FKIC 2,5/13-ST-5,08	1873469	50	
14	66.04	FKIC 2,5/14-ST-5,08	1873472	50	
15	71.12	FKIC 2,5/15-ST-5,08	1873485	50	
16	76.20	FKIC 2,5/16-ST-5,08	1873498	50	





With screw flange, for screw connection using inverted headers

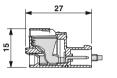
With engagement nose for snapping onto connectors with a self-locking flange

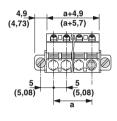
Dimensional drawing

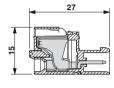
CB US CB

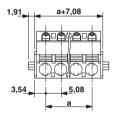
Dimensional drawing

CBL us PC VDE CB



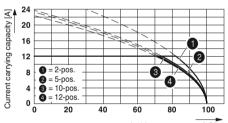






Representative derating curve

Type: FKC 2,5/...-ST with FKIC 2,5/...-ST

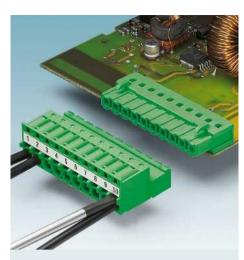


Ambient temperati	ure [°C]
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Ordering d	lata	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKIC 2,5/ 2-STF	1910827	50
FKIC 2,5/ 3-STF	1910830	50
FKIC 2,5/ 4-STF	1910843	50
FKIC 2,5/ 5-STF	1910856	50
FKIC 2,5/ 6-STF	1910869	50
FKIC 2,5/ 7-STF	1910872	50
FKIC 2,5/ 8-STF	1910885	50
FKIC 2,5/ 9-STF	1910898	50
FKIC 2,5/10-STF	1910908	50
FKIC 2,5/11-STF	1910911	50
FKIC 2,5/12-STF	1910924	50
FKIC 2,5/13-STF	1910937	50
FKIC 2,5/14-STF	1910940	50
FKIC 2,5/15-STF	1910953	50
FKIC 2,5/16-STF	1910966	50
5.08 mm pitch, color: green		
FKIC 2,5/ 2-STF-5,08	1873508	50
FKIC 2,5/ 3-STF-5,08	1873511	50
FKIC 2,5/ 4-STF-5,08	1873524	50
FKIC 2,5/ 5-STF-5,08	1873537	50
FKIC 2,5/ 6-STF-5,08	1873540	50
FKIC 2,5/ 7-STF-5,08	1873553	50
FKIC 2,5/ 8-STF-5,08	1873566	50
FKIC 2,5/ 9-STF-5,08	1873579	50
FKIC 2,5/10-STF-5,08	1873582	50
FKIC 2,5/11-STF-5,08	1873595	50
FKIC 2,5/12-STF-5,08	1873605	50
FKIC 2,5/13-STF-5,08	1873618	50
FKIC 2,5/14-STF-5,08	1873621	50
FKIC 2,5/15-STF-5,08	1873634	50
FKIC 2,5/16-STF-5,08	1873647	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
••			
·			
·			
5.08 mm pitch, color: green			
FKIC 2,5/ 2-ST-5,08-RN	1925867	50	
FKIC 2,5/ 3-ST-5,08-RN	1925870	50	
FKIC 2,5/ 4-ST-5,08-RN	1925883	50	
FKIC 2,5/ 5-ST-5,08-RN	1925896	50	
FKIC 2,5/ 6-ST-5,08-RN	1925906	50	
FKIC 2,5/ 7-ST-5,08-RN	1925919	50	
FKIC 2,5/ 8-ST-5,08-RN	1925922	50	
FKIC 2,5/ 9-ST-5,08-RN	1925935	50	
FKIC 2,5/10-ST-5,08-RN	1925948	50	
FKIC 2,5/11-ST-5,08-RN	1925951	50	
FKIC 2,5/12-ST-5,08-RN	1925964	50	
FKIC 2,5/13-ST-5,08-RN	1925977	50	
FKIC 2,5/14-ST-5,08-RN	1925980	50	
FKIC 2,5/15-ST-5,08-RN	1925993	50	
FKIC 2,5/16-ST-5,08-RN	1926002	50	

Inverted plugs with push-in spring connection



- Plugs with inverted contact system (pin contact)
- Can be combined with inverted headers and connectors for shock-proof applications
- With actuation shaft for screwdriver, user-friendly "two-hand operation"
- Versions with and without a screw flange
- SK 5/3,8 or SK 5,08/3,8 marker cards can be found on page 798

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The inverted contact system is explained on page 34.

The maximum torque for the screw flange is 0.3 Nm.

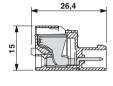
1) Please observe the derating curves. Derating curves of further combination options on request

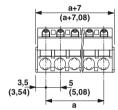


Inverted plug with push-in spring connection, with screwdriver actuation shaft, and test connection

CB CB

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

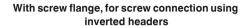
Accessories			
For all types	Туре	Page	
*	Coding section CR-MSTB Order No. 1734401	38	
	Strain relief STZFKC-5,08	837	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
11	Ferrules with and without plastic sleeve	834	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
No.	Test plug MPS	831	

Technical data	
Technical data in accordance to IEC / DIN VE)E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
1 11011	linni
Connection capacity Solid / stranded	[21 / [21 / ANA/C
	[mm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	,
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
	·

	121) / 2.5	
	320	
	5/5.08	
0.2 - 2.5	5 / 0.2 - 2.5	
	0.25 - 2.5	
	0.25 - 2.5	
	,	
	-/-	
	0.5 - 1	
	0.5 - 1	
III/3	III/2	11/2
320	320	630
4	4	4
В	C	D
300	-	300
10	-	10
26 - 12	- - C	26 - 12
В	С	D
-	-	-
-	-	-
-	-	-
	10	
	PA/I	
	V0	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	FKICS 2,5/ 2-ST	1981445	50
3	10.00	FKICS 2,5/ 3-ST	1981458	50
4	15.00	FKICS 2,5/ 4-ST	1981461	50
5	20.00	FKICS 2,5/ 5-ST	1981474	50
6	25.00	FKICS 2,5/ 6-ST	1981487	50
7	30.00	FKICS 2,5/ 7-ST	1981490	50
8	35.00	FKICS 2,5/ 8-ST	1981500	50
9	40.00	FKICS 2,5/ 9-ST	1981513	50
10	45.00	FKICS 2,5/10-ST	1981526	50
11	50.00	FKICS 2,5/11-ST	1981539	50
12	55.00	FKICS 2,5/12-ST	1981542	50
13	60.00	FKICS 2,5/13-ST	1981555	50
14	65.00	FKICS 2,5/14-ST	1981568	50
15	70.00	FKICS 2,5/15-ST	1981571	50
16	75.00	FKICS 2,5/16-ST	1981584	50
		5.08 mm pitch, color: green		
2	5.08	FKICS 2,5/ 2-ST-5,08	1981746	50
3	10.16	FKICS 2,5/ 3-ST-5,08	1981759	50
4	15.24	FKICS 2,5/ 4-ST-5,08	1981762	50
5	20.32	FKICS 2,5/ 5-ST-5,08	1981775	50
6	25.40	FKICS 2,5/ 6-ST-5,08	1981788	50
7	30.48	FKICS 2,5/ 7-ST-5,08	1981791	50
8	35.56	FKICS 2,5/ 8-ST-5,08	1981801	50
9	40.64	FKICS 2,5/ 9-ST-5,08	1981814	50
10	45.72	FKICS 2,5/10-ST-5,08	1981827	50
11	50.80	FKICS 2,5/11-ST-5,08	1981830	50
12	55.88	FKICS 2,5/12-ST-5,08	1981843	50
13	60.96	FKICS 2,5/13-ST-5,08	1981856	50
14	66.04	FKICS 2,5/14-ST-5,08	1981869	50
15	71.12	FKICS 2,5/15-ST-5,08	1981872	50
16	76.20	FKICS 2,5/16-ST-5,08	1981885	50





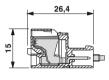


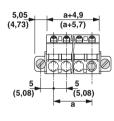
Inverted plug with push-in spring connection, engagement noses and flanges for direct fixing

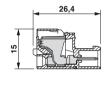
CB CB

Dimensional drawing

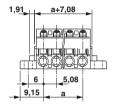
Dimensional drawing





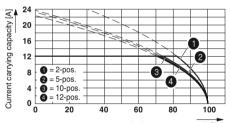


c**91**us



Representative derating curve

Type: FKC 2,5/...-ST with FKIC 2,5/...-ST

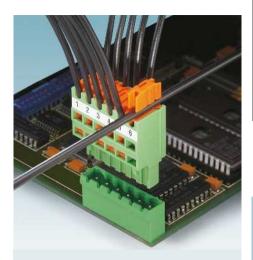


Ambient temperature [°C]

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKICS 2,5/ 2-STF	1981597	50	
FKICS 2,5/ 3-STF	1981607	50	
FKICS 2,5/ 4-STF	1981610	50	
FKICS 2,5/ 5-STF	1981623	50	
FKICS 2,5/ 6-STF	1981636	50	
FKICS 2,5/ 7-STF	1981649	50	
FKICS 2,5/ 8-STF	1981652	50	
FKICS 2,5/ 9-STF	1981665	50	
FKICS 2,5/10-STF	1981678	50	
FKICS 2,5/11-STF	1981681	50	
FKICS 2,5/12-STF	1981694	50	
FKICS 2,5/13-STF	1981704	50	
FKICS 2,5/14-STF	1981717	50	
FKICS 2,5/15-STF	1981720	50	
FKICS 2,5/16-STF	1981733	50	
5.08 mm pitch, color: green			
FKICS 2,5/ 2-STF-5,08	1981898	50	
FKICS 2,5/ 3-STF-5,08	1981908	50	
FKICS 2,5/ 4-STF-5,08	1981911	50	
FKICS 2,5/ 5-STF-5,08	1981924	50	
FKICS 2,5/ 6-STF-5,08	1981937	50	
FKICS 2,5/ 7-STF-5,08	1981940	50	
FKICS 2,5/ 8-STF-5,08	1981953	50	
FKICS 2,5/ 9-STF-5,08	1981966	50	
FKICS 2,5/10-STF-5,08	1981979	50	
FKICS 2,5/11-STF-5,08	1981982	50	
FKICS 2,5/12-STF-5,08	1981995	50	
FKICS 2,5/13-STF-5,08	1982004	50	
FKICS 2,5/14-STF-5,08	1982017	50	
FKICS 2,5/15-STF-5,08	1982020	50	
FKICS 2,5/16-STF-5,08	1982033	50	

Ordering	data data	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
FKICS 2,5/ 2-STD-5,08-RN	1808721	50
FKICS 2,5/ 3-STD-5,08-RN	1808734	50
FKICS 2,5/ 4-STD-5,08-RN	1808747	50
FKICS 2,5/ 5-STD-5,08-RN	1808750	50
FKICS 2,5/ 6-STD-5,08-RN	1808763	50
FKICS 2,5/ 7-STD-5,08-RN	1808776	50
FKICS 2,5/ 8-STD-5,08-RN	1808789	50
FKICS 2,5/ 9-STD-5,08-RN	1808792	50
FKICS 2,5/10-STD-5,08-RN	1808802	50
FKICS 2,5/11-STD-5,08-RN	1808815	50
FKICS 2,5/12-STD-5,08-RN	1808828	50
FKICS 2,5/13-STD-5,08-RN	1808831	50
FKICS 2,5/14-STD-5,08-RN	1808844	50
FKICS 2,5/15-STD-5,08-RN	1808857	50
FKICS 2,5/16-STD-5,08-RN	1808860	50

Plug with displacement connection



- Reduced wiring time since pretreatment of the conductor is no longer necessary
- For stranded conductors with PVC or PE insulation
- Connection as per EN 60352-4
- Integrated 1.2 mm Ø test connection
- Bus plug version
- Higher numbers of positions up to 18-pos. can be found at:

www.phoenixcontact.net/products

User notes and recommendations for the insulation displacement technology can be found on page 22

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

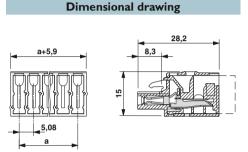
1) Please observe the derating curves. Derating curves of further combination options on request.



Plug with displacement connection

Accessories For all types Туре Page Coding profile CP-MSTB 38 1734634 Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504 798 Marker cards SK 5,08/3,8

CB CB



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1 mm2 Reduction factor = 0.8 Number of positions = see diagram

Technical data	
Technical data in accordance to IEC / DIN VDB	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material	group
Inflammability class according to UL 94	

	101) / 1	
	630	
	5.08/5	
-/C	1.5 - 1 / 20	- 18
	-	
	-	
	-/-	
	-	
	-	
III/3	III/2	II / 2
500	630	1000
6	6	6
В	С	D
300	-	300
10	-	10
22 - 18		22 - 18
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt
lo. of pos.	Dim. a [mm]			
2	5.00			
3	10.00			
4	15.00			
5	20.00			
6	25.00			
		5.08 mm pitch, color: green		
2	5.08	QC 1/ 2-ST-5,08	1883255	50
3	10.16	QC 1/ 3-ST-5,08	1883268	50
4	15.24	QC 1/ 4-ST-5,08	1883271	50
5	20.32	QC 1/ 5-ST-5,08	1883284	50
6	25.40	QC 1/ 6-ST-5,08	1883297	50
7	30.48	QC 1/ 7-ST-5,08	1883307	50
8	35.56	QC 1/ 8-ST-5,08	1883310	50
9	40.64	QC 1/ 9-ST-5,08	1883323	50
10	45.72	QC 1/10-ST-5,08	1883336	50
11	50.80	QC 1/11-ST-5,08	1883349	50
12	55.88	QC 1/12-ST-5,08	1883705	50
13	60.96	QC 1/13-ST-5,08	1883815	50
14	66.04	QC 1/14-ST-5,08	1883828	50
15	71.12	QC 1/15-ST-5,08	1883831	50
16	76.20	QC 1/16-ST-5,08	1883844	50



With screw flange



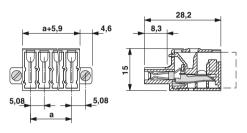
BUS connector for the looping through of conductors

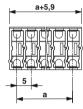
CB US CB

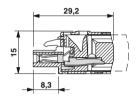
Dimensional drawing



Dimensional drawing

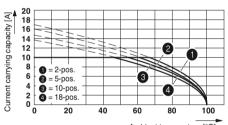






Representative derating curve

Type: QC 1/...-ST-5,08 with MSTBA 2,5/...-G-5,08

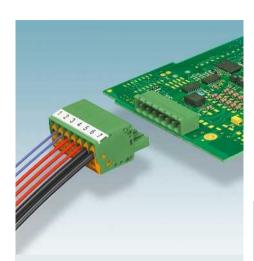


temperature	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
QC 1/ 2-STF-5,08	1883352	50
QC 1/ 3-STF-5,08	1883365	50
QC 1/ 4-STF-5,08	1883378	50
QC 1/ 5-STF-5,08	1883381	50
QC 1/ 6-STF-5,08	1883394	50
QC 1/7-STF-5,08	1883404	50
QC 1/ 8-STF-5,08	1883417	50
QC 1/ 9-STF-5,08	1883420	50
QC 1/10-STF-5,08	1883433	50
QC 1/11-STF-5,08	1883446	50
QC 1/12-STF-5,08	1883459	50
QC 1/13-STF-5,08	1883857	50
QC 1/14-STF-5,08	1883860	50
QC 1/15-STF-5,08	1883886	50
QC 1/16-STF-5,08	1883899	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
QC 1/2-ST-BUS	1921670	50	
QC 1/3-ST-BUS	1921683	50	
QC 1/ 4-ST-BUS	1921696	50	
QC 1/5-ST-BUS	1921706	50	
QC 1/6-ST-BUS	1921719	50	

Plug with displacement connection



- Easy operation through IDC displacement connection
- Plug-in direction parallel to the conduc-
- Versions with and without a screw flange
- This connection technology is suitable for cables with PVC and PE insulation
- User notes and recommendations for the insulation displacement technology can be found on page 22

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



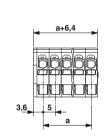
With displacement connection

Accessories For all types Page Coding profile 38

*	Order No. 1734634	
a 2	Marker cards SK 5/3,8	798
-	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Zack marker strip, flat ZBF 5/	806

Dimensional drawing 33.4

P 2u **/P** 3



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = AWG 16 Reduction factor = 0.8 Number of positions = see diagram

Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section [A] / [mm²] Rated insulation voltage for pollution degree 2 [V] Pitch [mm] Connection capacity $[\text{mm}^2]\,/\,[\text{mm}^2]\,/\,\text{AWG}$ Solid / stranded Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded [mm²] Stranded with ferrules without plastic sleeve [mm²] Stranded with TWIN ferrule with plastic sleeve [mm²] Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [V] Rated surge voltage [kV] Use Group Approval data (UL/CUL) Nominal voltage [V] Nominal current AWG Connection capacity AWG Approval data (CSA) Use Group Nominal voltage [V] Nominal current [A] Connection capacity AWG AWG General data Type of insulation material / insulation material group

Technical data

	121) / 1.5	
	630	
	5	
0.2 - 1.5	5 / 0.2 - 1.5	24 - 16
	-	
	-	
	-/-	
	-/-	
-		
III/3	III/2	II / 2
500	630	1000
6	6	6
В	С	D
300	-	300
10	-	10
24 - 16	24 - 16	24 - 16
В	С	D
	-	-
	-	-
	-	-
	DA //	
	PA/I V0	
	VU	

Туре		
5.0 r	Dim. a [mm]	No. of pos.
QC 1	5.00	2
QC 1	10.00	3
QC 1	15.00	4
QC 1	20.00	5
QC 1	25.00	6
QC 1	30.00	7
QC 1	35.00	8
QC 1	40.00	9
QC 1	45.00	10
QC 1	50.00	11
QC 1	55.00	12
QC 1	60.00	13
QC 1	65.00	14
QC 1	70.00	15
QC 1	75.00	16

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
QC 1,5/ 2-ST	1717961	50	
QC 1,5/ 3-ST	1717974	50	
QC 1,5/ 4-ST	1717987	50	
QC 1,5/ 5-ST	1717990	50	
QC 1,5/ 6-ST	1718009	50	
QC 1,5/ 7-ST	1718012	50	
QC 1,5/ 8-ST	1718025	50	
QC 1,5/ 9-ST	1718038	50	
QC 1,5/10-ST	1718041	50	
QC 1,5/11-ST	1718054	50	
QC 1,5/12-ST	1718067	50	
QC 1,5/13-ST	1718070	50	
QC 1,5/14-ST	1718083	50	
QC 1,5/15-ST	1718096	50	
QC 1,5/16-ST	1718106	50	

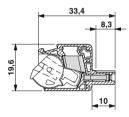
Inflammability class according to UL 94

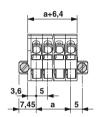


With screw flange

D 20 LP2

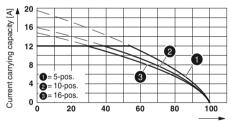
Dimensional drawing





Representative derating curve

Type: QC 1,5/...-ST-5,0 with MSTBVA 2,5 HC/...G



Ambient temperature [°C]

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
QC 1,5/ 2-STF	1718119	50	
QC 1,5/ 3-STF	1718122	50	
QC 1,5/ 4-STF	1718135	50	
QC 1,5/ 5-STF	1718148	50	
QC 1,5/ 6-STF	1718151	50	
QC 1,5/ 7-STF	1718164	50	
QC 1,5/ 8-STF	1718177	50	
QC 1,5/ 9-STF	1718180	50	
QC 1,5/10-STF	1718193	50	
QC 1,5/11-STF	1718203	50	
QC 1,5/12-STF	1718216	50	
QC 1,5/13-STF	1718229	50	
QC 1,5/14-STF	1718232	50	
QC 1,5/15-STF	1718245	50	
QC 1,5/16-STF	1718258	50	

Connectors with crimp connection



- Flat design of the MSTBC 2,5 connector
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange or a self-locking flange
- Versions with and without a snap-lock option for pullout aid
- Compatible with MSTB 2,5 headers, IC 2,5 and ICC 2,5 plugs

MSTBC-MT 0,5-1,0

- For conductor cross sections of 0.5 to 1.0 mm² (AWG 20-18) and currents of up to 10 A

MSTBC-MT 1,5-2,5

For conductor cross sections of 1.5 to 2.5 mm² (AWG 16-14) and currents of up to 12 A

Technical data

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Larger numbers of positions up to 24-pos. and additional technical information can be found at www.phoenixcontact.com

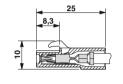
The maximum torque for the screw flange is 0.3 Nm.

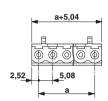
1) Please observe the derating curves. Derating curves of further combination options on request.



Flat plug for crimp contacts

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
*	Coding profile CP-MSTB Order No. 1734634	38	
. /	Marker cards SK 5,08/3,8	798	
	Screwdriver SZS 0,4 x 2,5 Order No. 1205037		
	Module socket contact MSTBC-MT	827	
/1	Crimping pliers for 0.5 to 2.5 mm ² CRIMPFOX MT 2,5 Order No. 1204038		
Only for MSTBC 2,5/STZ			
5	Pullout aid STZMSTBC-5,08	828	

recinical data	•
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wi	ith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	re [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation materi	al group
Inflammability class according to UL 94	-
- ·	

	121) / 2.5	
	320	
	5.08	
-/0.	5 - 2.5 / 20) - 14
	-	
	-	
	-/-	
	-	
	-	
III/3	III/2	11/2
320	320	630
4	4	4
В	С	D
250	-	300
10	-	10
20 - 14	-	20 - 14
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
lo. of pos.	Dim. a [mm]	5.08 mm pitch, color: green		
2	5.08	MSTBC 2,5/ 2-ST-5,08	1808816	50
3	10.16	MSTBC 2,5/ 3-ST-5,08	1808829	50
4	15.24	MSTBC 2,5/ 4-ST-5,08	1808832	50
5	20.32	MSTBC 2,5/ 5-ST-5,08	1808845	50
6	25.40	MSTBC 2,5/ 6-ST-5,08	1808858	50
7	30.48	MSTBC 2,5/ 7-ST-5,08	1808861	50
8	35.56	MSTBC 2,5/ 8-ST-5,08	1808874	50
9	40.64	MSTBC 2,5/ 9-ST-5,08	1808887	50
10	45.72	MSTBC 2,5/10-ST-5,08	1808890	50
11	50.80	MSTBC 2,5/11-ST-5,08	1808900	50
12	55.88	MSTBC 2,5/12-ST-5,08	1808913	50
13	60.96	MSTBC 2,5/13-ST-5,08	1808926	50
14	66.04	MSTBC 2,5/14-ST-5,08	1808939	50
15	71.12	MSTBC 2,5/15-ST-5,08	1808942	50
16	76.20	MSTBC 2,5/16-ST-5,08	1808955	50



With snap-lock option for pull-out aid



With screw flange and snap-lock option for pull-out aid



With self-locking flange and snap-lock option for pull-out aid

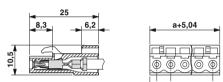
Dimensional drawing

(P. SAL) us (C. Angle C.B.

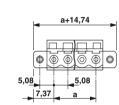
Dimensional drawing

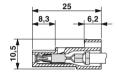


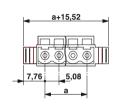
CB US CB



Dimensional drawing

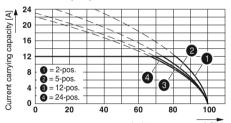






Representative derating curve

Type: MSTBC 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08; contact: MSTBC-MT 1,5 - 2,5



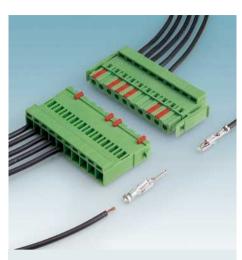
Ambient temperature [°C]

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
MSTBC 2,5/ 2-STZ-5,08	1809501	50	
MSTBC 2,5/ 3-STZ-5,08	1809514	50	
MSTBC 2,5/ 4-STZ-5,08	1809527	50	
MSTBC 2,5/ 5-STZ-5,08	1809530	50	
MSTBC 2,5/ 6-STZ-5,08	1809543	50	
MSTBC 2,5/ 7-STZ-5,08	1809556	50	
MSTBC 2,5/ 8-STZ-5,08	1809569	50	
MSTBC 2,5/ 9-STZ-5,08	1809572	50	
MSTBC 2,5/10-STZ-5,08	1809585	50	
MSTBC 2,5/11-STZ-5,08	1809598	50	
MSTBC 2,5/12-STZ-5,08	1809608	50	
MSTBC 2,5/13-STZ-5,08	1809611	50	
MSTBC 2,5/14-STZ-5,08	1809624	50	
MSTBC 2,5/15-STZ-5,08	1809637	50	
MSTBC 2,5/16-STZ-5,08	1809640	50	

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
MSTBC 2,5/ 2-STZF-5,08	1809734	50		
MSTBC 2,5/ 3-STZF-5,08	1809747	50		
MSTBC 2,5/ 4-STZF-5,08	1809750	50		
MSTBC 2,5/ 5-STZF-5,08	1809763	50		
MSTBC 2,5/ 6-STZF-5,08	1809776	50		
MSTBC 2,5/ 7-STZF-5,08	1809789	50		
MSTBC 2,5/ 8-STZF-5,08	1809792	50		
MSTBC 2,5/ 9-STZF-5,08	1809802	50		
MSTBC 2,5/10-STZF-5,08	1809815	50		
MSTBC 2,5/11-STZF-5,08	1809828	50		
MSTBC 2,5/12-STZF-5,08	1809831	50		
MSTBC 2,5/13-STZF-5,08	1809844	50		
MSTBC 2,5/14-STZF-5,08	1809857	50		
MSTBC 2,5/15-STZF-5,08	1809860	50		
MSTBC 2,5/16-STZF-5,08	1809873	50		

	Ordering da	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	5.08 mm pitch, color: green		
	MSTBC 2,5/ 2-STZ-5,08-R	1809048	50
	MSTBC 2,5/ 3-STZ-5,08-R	1809051	50
	MSTBC 2,5/ 4-STZ-5,08-R	1809064	50
	MSTBC 2,5/ 5-STZ-5,08-R	1809077	50
	MSTBC 2,5/ 6-STZ-5,08-R	1809080	50
	MSTBC 2,5/ 7-STZ-5,08-R	1809093	50
	MSTBC 2,5/ 8-STZ-5,08-R	1809103	50
	MSTBC 2,5/ 9-STZ-5,08-R	1809116	50
	MSTBC 2,5/10-STZ-5,08-R	1809129	50
	MSTBC 2,5/11-STZ-5,08-R	1809132	50
	MSTBC 2,5/12-STZ-5,08-R	1809145	50
	MSTBC 2,5/13-STZ-5,08-R	1809158	50
	MSTBC 2,5/14-STZ-5,08-R	1809161	50
	MSTBC 2,5/15-STZ-5,08-R	1809174	50
	MSTBC 2,5/16-STZ-5,08-R	1809187	50

Inverted plugs with a crimp connection



- Plugs with inverted contact system (pin contact)
- With snap-lock option for pullout aid
- ICC 2,5/...-STZ-5,08 with engagement noses for MSTBC 2,5/...-ST-... and for snapping on with MSTBC 2,5/...-STZ-5,08-R
- ICC 2,5/...-STZF-5,08 are, among other things, compatible with the IC 2,5/...-GF-5,08 inverted base strips

ICC-MT 0,5-1,0

- for conductor cross sections of 0.5 to 1.0 mm² (AWG 20-18) and currents of up to 10 A

ICC-MT 1,5-2,5

- for conductor cross sections of 1.5 to 2.5 mm² (AWG 16-14) and currents of up to 12 A

Technical data

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

Larger numbers of positions up to 24-pos. and additional technical $\,$ information can be found at www.phoenixcontact.com

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further



Featuring engagement noses for locking with plugs with a self-locking flange

Dimensional drawing

© c¶ us PC √où CB.

6,2 a+7,08

Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
*	Coding section CR-MSTB Order No. 1734401	38	
. /	Marker cards SK 5,08/3,8	798	
į	Screwdriver SZS 0,4 x 2,5 Order No. 1205037		
100	Module pin contact ICC-MT	827	
/	Crimping pliers for 0.5 to 2.5 mm ² CRIMPFOX MT 2,5 Order No. 1204038		
	Pullout aid STZMSTBC-5,08	828	

recillical data	
Technical data in accordance to IEC / DIN V	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	e 2 [V]
Division of the second of the	
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors w	vith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	
Stranded with TWIN ferrule with plastic slee	ve [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation mater	rial group
Inflammability class according to UL 94	* '
,	

	121) / 2.5	
	320	
	5.08	
-/0.	5 - 2.5 / 20) - 14
	-	
	-	
	,	
	-/-	
	-	
	-	
III/3	III/2	II / 2
250	320	630
4	4	4
В	C	D
250	-	300
10	-	10
20 - 14	-	20 - 14
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	

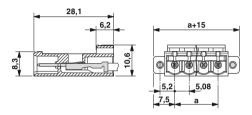
		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt
lo. of pos.	Dim. a [mm]	5.08 mm pitch, color: green		
2	5.08	ICC 2,5/ 2-STZ-5,08	1823846	50
3	10.16	ICC 2,5/ 3-STZ-5,08	1823859	50
4	15.24	ICC 2,5/ 4-STZ-5,08	1823862	50
5	20.32	ICC 2,5/ 5-STZ-5,08	1823875	50
6	25.40	ICC 2,5/ 6-STZ-5,08	1823888	50
7	30.48	ICC 2,5/ 7-STZ-5,08	1823891	50
8	35.56	ICC 2,5/ 8-STZ-5,08	1823901	50
9	40.64	ICC 2,5/ 9-STZ-5,08	1823914	50
10	45.72	ICC 2,5/10-STZ-5,08	1823927	50
11	50.80	ICC 2,5/11-STZ-5,08	1823930	50
12	55.88	ICC 2,5/12-STZ-5,08	1823943	50
13	60.96	ICC 2,5/13-STZ-5,08	1823956	50
14	66.04	ICC 2,5/14-STZ-5,08	1823969	50
15	71.12	ICC 2,5/15-STZ-5,08	1823972	50
16	76.20	ICC 2,5/16-STZ-5,08	1823985	50



With screw flange, for screw connection using inverted headers

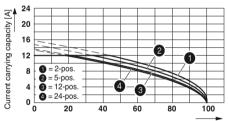
(CB

Dimensional drawing



Representative derating curve

Type: ICC 2,5/...-ST-5,08 with IC 2,5/...-G-5,08



Ambient temperature [°C]

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
ICC 2,5/ 2-STZF-5,08	1823383	50	
ICC 2,5/ 3-STZF-5,08	1823396	50	
ICC 2,5/ 4-STZF-5,08	1823406	50	
ICC 2,5/ 5-STZF-5,08	1823419	50	
ICC 2,5/ 6-STZF-5,08	1823422	50	
ICC 2,5/ 7-STZF-5,08	1823435	50	
ICC 2,5/ 8-STZF-5,08	1823448	50	
ICC 2,5/ 9-STZF-5,08	1823451	50	
ICC 2,5/10-STZF-5,08	1823464	50	
ICC 2,5/11-STZF-5,08	1823477	50	
ICC 2,5/12-STZF-5,08	1823480	50	
ICC 2,5/13-STZF-5,08	1823493	50	
ICC 2,5/14-STZF-5,08	1823503	50	
ICC 2,5/15-STZF-5,08	1823516	50	
ICC 2,5/16-STZF-5,08	1823529	50	

Single-level header for reflow process-



- Application in SMT reflow processes
- Delivery form: Box packaging; bulk for small series
- 2.6 mm standard pin length, other pin lengths available on request
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with a Lock & Release mechanism and threaded flange can either be used with connectors with Lock & Release or with a screw flange
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

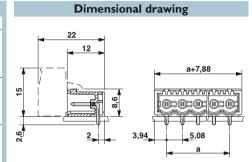
CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs

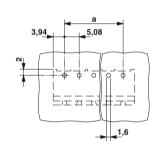


With side panels, plug-in direction parallel to the PCB

Accessories For all types Туре Page Coding section CR-MSTB 38 Order No. 1734401 Coding section 38 CR-MSTB NAT HT Order No. 1954362 Marker cards 798 SK 5,08/3,8



Drilling diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	12		
	320		
	5.08		
III/3	III/2	II / 2	
250	320	400	
4	4	4	
В	С	D	
250	-	300	
10	-	10	
-	-	-	
В	С	D	
-	-	-	
-	-	-	
-	-	-	
LCP / IIIa			
V0			
1.6 / 1 x 1 mm			

		Orde
		Туре
No. of pos.	Dim. a [mm]	Headers, 5.08 mm pitch, co
2	5.08	CCA 2,5/ 2-G-5,08 P26THR
3	10.16	CCA 2,5/ 3-G-5,08 P26THR
4	15.24	CCA 2,5/ 4-G-5,08 P26THR
5	20.32	CCA 2,5/ 5-G-5,08 P26THR
6	25.40	CCA 2,5/ 6-G-5,08 P26THR
7	30.48	CCA 2,5/ 7-G-5,08 P26THR
8	35.56	CCA 2,5/ 8-G-5,08 P26THR
9	40.64	CCA 2,5/ 9-G-5,08 P26THR
10	45.72	CCA 2,5/10-G-5,08 P26THR
11	50.80	CCA 2,5/11-G-5,08 P26THR
12	55.88	CCA 2,5/12-G-5,08 P26THR

P) 20 /P2

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Headers, 5.08 mm pitch, color: Black			
CCA 2,5/ 2-G-5,08 P26THR	1954919	50	
CCA 2,5/ 3-G-5,08 P26THR	1954922	50	
CCA 2,5/ 4-G-5,08 P26THR	1954935	50	
CCA 2,5/ 5-G-5,08 P26THR	1954948	50	
CCA 2,5/ 6-G-5,08 P26THR	1954951	50	
CCA 2,5/ 7-G-5,08 P26THR	1954977	50	
CCA 2,5/ 8-G-5,08 P26THR	1954980	50	
CCA 2,5/ 9-G-5,08 P26THR	1954993	50	
CCA 2,5/10-G-5,08 P26THR	1955002	50	
CCA 2,5/11-G-5,08 P26THR	1955015	50	
CCA 2,5/12-G-5,08 P26THR	1955028	50	



With engagement noses, plug-in direction parallel to the PCB



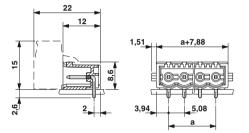
With threaded flange, plug-in direction parallel to the PCB



With Lock & Release mechanism and threaded flange, plug-in direction parallel to the PCB

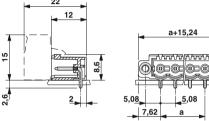


Dimensional drawing

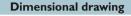


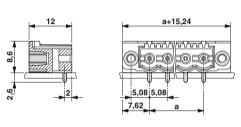


Dimensional drawing



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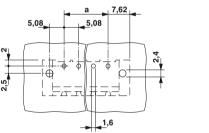


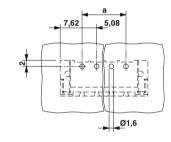
Drilling diagram



Drilling diagram







3,94	→ 3,08	
	1,6	
04	wing data	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Headers, 5.08 mm pitch, color: Black			
CCA 2,5/ 2-G-5,08 RNP26THR	1955167	50	
CCA 2,5/ 3-G-5,08 RNP26THR	1955170	50	
CCA 2,5/ 4-G-5,08 RNP26THR	1955183	50	
CCA 2,5/ 5-G-5,08 RNP26THR	1955196	50	
CCA 2,5/ 6-G-5,08 RNP26THR	1955206	50	
CCA 2,5/ 7-G-5,08 RNP26THR	1955219	50	
CCA 2,5/ 8-G-5,08 RNP26THR	1955222	50	
CCA 2,5/ 9-G-5,08 RNP26THR	1955235	50	
CCA 2,5/10-G-5,08 RNP26THR	1955248	50	
CCA 2,5/11-G-5,08 RNP26THR	1955251	50	
CCA 2,5/12-G-5,08 RNP26THR	1955264	50	

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Headers, 5.08 mm pitch, color: Black				
CC 2,5/ 2-GF-5,08 P26THR	1954692	50		
CC 2,5/ 3-GF-5,08 P26THR	1954702	50		
CC 2,5/ 4-GF-5,08 P26THR	1954715	50		
CC 2,5/ 5-GF-5,08 P26THR	1954728	50		
CC 2,5/ 6-GF-5,08 P26THR	1954731	50		
CC 2,5/ 7-GF-5,08 P26THR	1954744	50		
CC 2,5/ 8-GF-5,08 P26THR	1954757	50		
CC 2,5/ 9-GF-5,08 P26THR	1954760	50		
CC 2,5/10-GF-5,08 P26THR	1954773	50		
CC 2,5/11-GF-5,08 P26THR	1954786	50		
CC 2,5/12-GF-5,08 P26THR	1954799	50		

Ordering data				
Туре	Order No.	Pcs. / Pkt		
Headers, 5.08 mm pitch, color: Black				
CC 2,5/ 2-GF-5,08-LR P26THR	1792627	50		
CC 2,5/ 3-GF-5,08-LR P26THR	1792630	50		
CC 2,5/ 4-GF-5,08-LR P26THR	1792643	50		
CC 2,5/ 5-GF-5,08-LR P26THR	1792656	50		
CC 2,5/ 6-GF-5,08-LR P26THR	1792669	50		
CC 2,5/ 7-GF-5,08-LR P26THR	1792672	50		
CC 2,5/ 8-GF-5,08-LR P26THR	1792685	50		
CC 2,5/ 9-GF-5,08-LR P26THR	1792698	50		
CC 2,5/10-GF-5,08-LR P26THR	1792708	50		
CC 2,5/11-GF-5,08-LR P26THR	1792711	50		
CC 2,5/12-GF-5,08-LR P26THR	1792724	50		

Single-level header for reflow process-



- Application in SMT reflow processes
- Delivery form: box packaging; bulk for small series
- 2.6 mm standard pin length, other pin lengths available on request
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with a Lock & Release mechanism and threaded flange can either be used with connectors with Lock & Release or with a screw flange
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

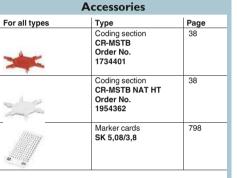
CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

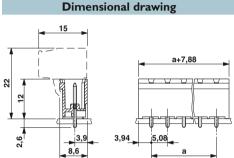
Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs

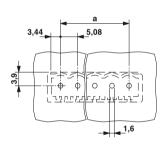


With side panels, plug-in direction vertical to the PCB

P) 20 /P2







Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	12	
	320	
	5.08	
III/3	III/2	II / 2
250	320	400
4	4	4
В	С	D
250	-	300
10	-	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	LCP / Illa	
	V0	
	1.6 / 1 x 1 mr	n

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data			
Туре	Order No.	Pcs. / Pkt	
Headers, 5.08 mm pitch, color: Black			
CCVA 2,5/ 2-G-5,08 P26THR	1955853	50	
CCVA 2,5/ 3-G-5,08 P26THR	1955866	50	
CCVA 2,5/ 4-G-5,08 P26THR	1955879	50	
CCVA 2,5/ 5-G-5,08 P26THR	1955882	50	
CCVA 2,5/ 6-G-5,08 P26THR	1955895	50	
CCVA 2,5/ 7-G-5,08 P26THR	1955905	50	
CCVA 2,5/ 8-G-5,08 P26THR	1955918	50	
CCVA 2,5/ 9-G-5,08 P26THR	1955921	50	
CCVA 2,5/10-G-5,08 P26THR	1955934	50	
CCVA 2,5/11-G-5,08 P26THR	1955947	50	
CCVA 2,5/12-G-5,08 P26THR	1955950	50	



With engagement noses, plug-in direction vertical to the PCB



With threaded flange, plug-in direction vertical to the PCB



With Lock & Release mechanism and threaded flange, plug-in direction vertical to the PCB

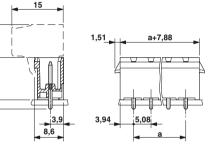
Dimensional drawing

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22

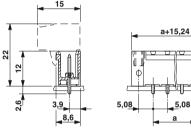
7

Dimensional drawing

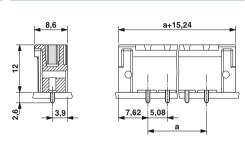


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Dimensional drawing



c**91**0 us 🕑

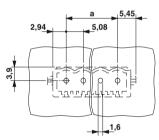


Drilling diagram

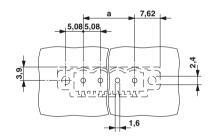
Drilling diagram

<u>5</u>,08

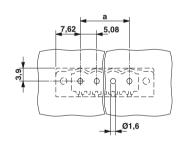
Drilling diagram





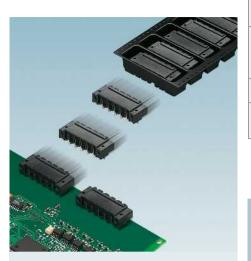


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Headers, 5.08 mm pitch, color: Black				
CCV 2,5/ 2-GF-5,08 P26THR	1955633	50		
CCV 2,5/ 3-GF-5,08 P26THR	1955646	50		
CCV 2,5/ 4-GF-5,08 P26THR	1955659	50		
CCV 2,5/ 5-GF-5,08 P26THR	1955662	50		
CCV 2,5/ 6-GF-5,08 P26THR	1955675	50		
CCV 2,5/ 7-GF-5,08 P26THR	1955688	50		
CCV 2,5/ 8-GF-5,08 P26THR	1955691	50		
CCV 2,5/ 9-GF-5,08 P26THR	1955701	50		
CCV 2,5/10-GF-5,08 P26THR	1955714	50		
CCV 2,5/11-GF-5,08 P26THR	1955727	50		
CCV 2,5/12-GF-5,08 P26THR	1955730	50		



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Headers, 5.08 mm pitch, color: Black				
CCV 2,5/ 2-GF-5,08-LR P26THR	1792737	50		
CCV 2,5/ 3-GF-5,08-LR P26THR	1792740	50		
CCV 2,5/ 4-GF-5,08-LR P26THR	1792753	50		
CCV 2,5/ 5-GF-5,08-LR P26THR	1792766	50		
CCV 2,5/ 6-GF-5,08-LR P26THR	1792779	50		
CCV 2,5/ 7-GF-5,08-LR P26THR	1792782	50		
CCV 2,5/ 8-GF-5,08-LR P26THR	1792795	50		
CCV 2,5/ 9-GF-5,08-LR P26THR	1792805	50		
CCV 2,5/10-GF-5,08-LR P26THR	1792818	50		
CCV 2,5/11-GF-5,08-LR P26THR	1792821	50		
CCV 2,5/12-GF-5,08-LR P26THR	1792834	50		

Single-level header for reflow process-



- Application in SMT reflow processes
- Delivery form: taped packaging in accordance with IEC 60286-3 for automatic assembly; coil diameter 330 mm; design width of the tape adjusted as per the corresponding number of positions of the product
- Versions with a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- 2.6 mm standard pin length, other pin lengths available on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Pick and place pads for taped THR articles usually protrude be-yond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

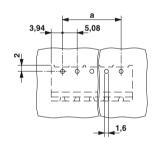
Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs



Taped headers with side panels, plug-in direction parallel to the PCB

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cessories		Dimensional drawing		
Type Coding section CR-MSTB Order No. 1734401	Page 38	12		
Coding section CR-MSTB NAT HT Order No. 1954362	38	a+7,88		
Marker cards SK 5,08/3,8	798	φ 2 3,94 5,08 a		



Accessories			
For all types	Туре	Page	
*	Coding section CR-MSTB Order No. 1734401	38	
2/2	Coding section CR-MSTB NAT HT Order No. 1954362	38	
a .	Marker cards SK 5,08/3,8	798	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	_
Drill hole diameter / pin dimensions	[mm]

	12	
	320	
	5.08	
III/3	III/2	11/2
250	320	400
4	4	4
В	С	D
250	-	300
10	-	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	LCP / Illa	
	V0	
1	.6/1 x 1 m	m
1	.6/1x1m	m

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCA 2,5/ 2-G-5,08 P26THRR32	1955031	330
CCA 2,5/ 3-G-5,08 P26THRR32	1955044	330
CCA 2,5/ 4-G-5,08 P26THRR56	1955057	330
CCA 2,5/ 5-G-5,08 P26THRR56	1955060	330
CCA 2,5/ 6-G-5,08 P26THRR56	1955073	330
CCA 2,5/ 7-G-5,08 P26THRR56	1955086	330
CCA 2,5/ 8-G-5,08 P26THRR56	1955099	330
CCA 2,5/ 9-G-5,08 P26THRR88	1955109	240
CCA 2,5/10-G-5,08 P26THRR88	1955112	240
CCA 2,5/11-G-5,08 P26THRR88	1955125	240
CCA 2,5/12-G-5,08 P26THRR88	1955138	240



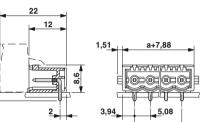
Taped headers with engagement noses, plugin direction parallel to the PCB



Taped headers with threaded flange, plug-in direction parallel to the PCB

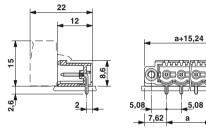
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Dimensional drawing



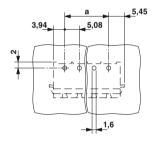


Dimensional drawing

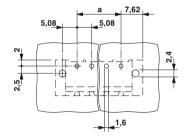


Drilling diagram



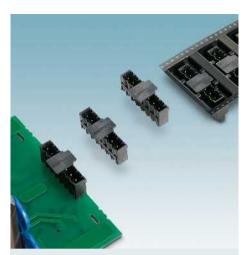


Ordering data		
Туре	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCA 2,5/ 2-G-5,08 RNP26THRR32	1955277	330
CCA 2,5/ 3-G-5,08 RNP26THRR32	1955280	330
CCA 2,5/ 4-G-5,08 RNP26THRR56	1955293	330
CCA 2,5/ 5-G-5,08 RNP26THRR56	1955303	330
CCA 2,5/ 6-G-5,08 RNP26THRR56	1955316	330
CCA 2,5/ 7-G-5,08 RNP26THRR56	1955329	330
CCA 2,5/ 8-G-5,08 RNP26THRR88	1955332	240
CCA 2,5/ 9-G-5,08 RNP26THRR88	1955345	240
CCA 2,5/10-G-5,08 RNP26THRR88	1955358	240
CCA 2,5/11-G-5,08 RNP26THRR88	1955361	240
CCA 2,5/12-G-5,08 RNP26THRR88	1955374	240



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CC 2,5/ 2-GF-5,08 P26THRR32	1954809	330
CC 2,5/ 3-GF-5,08 P26THRR56	1954812	330
CC 2,5/ 4-GF-5,08 P26THRR56	1954825	330
CC 2,5/ 5-GF-5,08 P26THRR56	1954838	330
CC 2,5/ 6-GF-5,08 P26THRR56	1954841	330
CC 2,5/ 7-GF-5,08 P26THRR88	1954854	240
CC 2,5/ 8-GF-5,08 P26THRR88	1954867	240
CC 2,5/ 9-GF-5,08 P26THRR88	1954870	240
CC 2,5/10-GF-5,08 P26THRR88	1954883	240
CC 2,5/11-GF-5,08 P26THRR88	1954896	240
CC 2,5/12-GF-5,08 P26THRR88	1954906	240

Single-level header for reflow process-



- Application in SMT reflow processes
- Delivery form: taped packaging in accordance with IEC 60286-3 for automatic assembly; coil diameter 330 mm; design width of the tape adjusted as per the corresponding number of positions of the product
- Versions with a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- 2.6 mm standard pin length, other pin lengths available on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

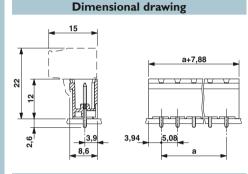
Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs.

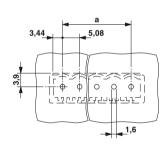


Taped headers with side panels, plug-in direction vertical to the PCB

Accessories For all types Page Type Coding section CR-MSTB 38 Order No. 1734401 Coding section **CR-MSTB NAT HT** Order No. 1954362 Marker cards 798 SK 5,08/3,8







Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	12	
	320	
	5.08	
III/3	III/2	11/2
250	320	400
4	4	4
В	С	D
250	-	300
10	-	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	LCP / IIIa	
	V0	
1	.6/1x1m	m

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCVA 2,5/ 2-G-5,08 P26THRR32	1955963	140
CCVA 2,5/ 3-G-5,08 P26THRR32	1955976	140
CCVA 2,5/ 4-G-5,08 P26THRR56	1955989	140
CCVA 2,5/ 5-G-5,08 P26THRR56	1955992	140
CCVA 2,5/ 6-G-5,08 P26THRR56	1956001	140
CCVA 2,5/ 7-G-5,08 P26THRR56	1956014	140
CCVA 2,5/ 8-G-5,08 P26THRR56	1956027	140
CCVA 2,5/ 9-G-5,08 P26THRR88	1956030	140
CCVA 2,5/10-G-5,08 P26THRR88	1956043	140
CCVA 2,5/11-G-5,08 P26THRR88	1956056	140
CCVA 2,5/12-G-5,08 P26THRR88	1956069	140





Taped headers with engagement noses, plug-in direction vertical to the PCB

Taped headers with threaded flange, plug-in direction vertical to the PCB

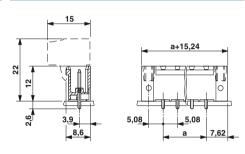
Dimensional drawing

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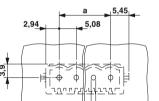
a+7,88 22 12

Dimensional drawing

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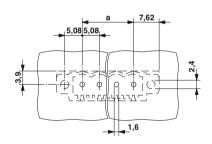


Drilling diagram



____1,6

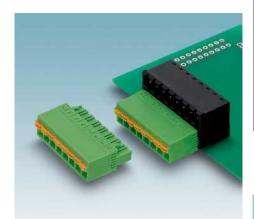
Drilling diagram



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCVA 2,5/ 2-G-5,08RNP26THRR32	1956195	140
CCVA 2,5/ 3-G-5,08RNP26THRR32	1956205	140
CCVA 2,5/ 4-G-5,08RNP26THRR56	1956218	140
CCVA 2,5/ 5-G-5,08RNP26THRR56	1956221	140
CCVA 2,5/ 6-G-5,08RNP26THRR56	1956234	140
CCVA 2,5/ 7-G-5,08RNP26THRR56	1956247	140
CCVA 2,5/ 8-G-5,08RNP26THRR88	1956250	140
CCVA 2,5/ 9-G-5,08RNP26THRR88	1956263	140
CCVA 2,5/10-G-5,08RNP26THRR88	1956276	140
CCVA 2,5/11-G-5,08RNP26THRR88	1956289	140
CCVA 2,5/12-G-5,08RNP26THRR88	1956292	140

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCV 2,5/ 2-GF-5,08 P26THRR32	1955743	140
CCV 2,5/ 3-GF-5,08 P26THRR56	1955756	140
CCV 2,5/ 4-GF-5,08 P26THRR56	1955769	140
CCV 2,5/ 5-GF-5,08 P26THRR56	1955772	140
CCV 2,5/ 6-GF-5,08 P26THRR56	1955785	140
CCV 2,5/ 7-GF-5,08 P26THRR88	1955798	140
CCV 2,5/8-GF-5,08 P26THRR88	1955808	140
CCV 2,5/ 9-GF-5,08 P26THRR88	1955811	140
CCV 2,5/10-GF-5,08 P26THRR88	1955824	140
CCV 2,5/11-GF-5,08 P26THRR88	1955837	140
CCV 2,5/12-GF-5,08 P26THRR88	1955840	140

Double-level header for reflow processes



- Application in SMT reflow processes
- Double-level base strip without offset
- Less space requirements on the PCB
- Plug-in direction parallel to the PCB
- Versions with and without a threaded
- Can be combined particularly with the FKCN 2,5 compact spring-cage plug component
- 2.6 mm standard pin length
- Higher numbers of positions up to 18-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Application notes and suggestions for the THR process can be found on page 27.

CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

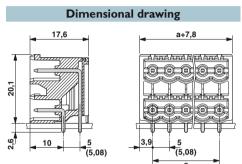
1) UL/CUL on request.

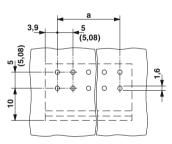


Double-level header, plug-in direction parallel to the PCB

P







Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
<u> </u>	

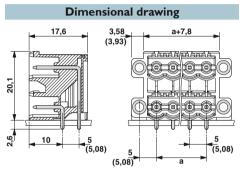
	12	
	400	
	5 / 5.08	
III/3	III/2	11/2
320	400	400
4	4	4
В	С	D
-	-	-
-	-	-
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	LCP / IIIa	
	V0	
	1.6/1x1	

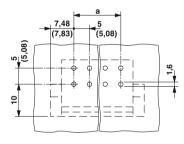
[mm] 2 5.00 CCDN 2,5/ 2-G1 P26 THR 1734280 50 3 10.00 CCDN 2,5/ 3-G1 P26 THR 1734287 50 4 15.00 CCDN 2,5/ 4-G1 P26 THR 1734290 50 5 20.00 CCDN 2,5/ 5-G1 P26 THR 1734300 50 6 25.00 CCDN 2,5/ 6-G1 P26 THR 1734313 50 7 30.00 CCDN 2,5/ 8-G1 P26 THR 1734326 50 8 35.00 CCDN 2,5/ 8-G1 P26 THR 1734329 50 9 40.00 CCDN 2,5/ 8-G1 P26 THR 1734329 50 10 45.00 CCDN 2,5/ 8-G1 P26 THR 1734325 50 11 50.00 CCDN 2,5/ 16-G1 P26 THR 1734355 50 11 50.00 CCDN 2,5/ 16-G1 P26 THR 1734355 50 12 55.00 CCDN 2,5/ 16-G1 P26 THR 1734368 50 CCDN 2,5/ 16-G1 P26 THR 1734371 50 13 60.00 CCDN 2,5/ 16-G1 P26 THR 1734397 50 14 65.00 CCDN 2,5/ 16-G1 P26 THR 1734397 50 CCDN 2,5/ 16-G1 P26 THR 1734397 50 CCDN 2,5/ 16-G1 P26 THR 1734407 50 CCDN 2,5/ 16-G1 P26 THR 1734410 50 Headers, 5.08 mm pitch, color: Black CCDN 2,5/ 3-G1-5,08 P26 THR 1753145 50 CCDN 2,5/ 3-G1-5,08 P26 THR 1753145 50 CCDN 2,5/ 6-G1-5,08 P26 THR 1753158 50 CCDN 2,5/ 6-G1-5,08 P26 THR 1753161 50 CCDN 2,5/ 6-G1-5,08 P26 THR 1753190 50 45.72 CCDN 2,5/ 6-G1-5,08 P26 THR 1753190 50 CCDN 2,5/ 6-G1-5,08 P26 THR 1753239 50 CCDN 2,5/ 12-G1-5,08 P26 THR 1753245 5					
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7 30.00 CCDN 2,5/7-G1 P26 THR 1734326 50 8 35.00 CCDN 2,5/8-G1 P26 THR 1734339 50 9 40.00 CCDN 2,5/9-G1 P26 THR 1734332 50 10 45.00 CCDN 2,5/10-G1 P26 THR 1734342 50 111 50.00 CCDN 2,5/11-G1 P26 THR 1734368 50 12 55.00 CCDN 2,5/12-G1 P26 THR 1734371 50 13 60.00 CCDN 2,5/13-G1 P26 THR 1734397 50 14 65.00 CCDN 2,5/13-G1 P26 THR 1734397 50 15 70.00 CCDN 2,5/16-G1 P26 THR 1734397 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734407 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734407 50 1734407 50 18 75.00 CCDN 2,5/16-G1 P26 THR 1734410 50 19 40.64 CCDN 2,5/16-G1 P26 THR 1734410 50 10 45.72 CCDN 2,5/16-G1 P26 THR 1753132 50 2 50.82 CCDN 2,5/3-G1-5,08 P26 THR 1753145 50 2 CCDN 2,5/5-G1-5,08 P26 THR 1753161 50 2 CCDN 2,5/5-G1-5,08 P26 THR 1753161 50 2 CCDN 2,5/5-G1-5,08 P26 THR 1753161 50 2 CCDN 2,5/5-G1-5,08 P26 THR 1753174 50 2 CCDN 2,5/5-G1-5,08 P26 THR 1753174 50 2 CCDN 2,5/5-G1-5,08 P26 THR 1753190 50 3 3 0.48 CCDN 2,5/5-G1-5,08 P26 THR 1753190 50 4 0.64 CCDN 2,5/5-G1-5,08 P26 THR 1753190 50 4 0.64 CCDN 2,5/9-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/16-G1-5,08 P26 THR 1753226 50 10 45.72 CCDN 2,5/12-G1-5,08 P26 THR 1753233 50 11 50.80 CCDN 2,5/12-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753242 50 13 60.96 CCDN 2,5/14-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50	5	20.00	CCDN 2,5/ 5-G1 P26 THR	1734300	50
8 35.00 CCDN 2,5/8-G1 P26 THR 1734339 50 9 40.00 CCDN 2,5/9-G1 P26 THR 1734342 50 10 45.00 CCDN 2,5/10-G1 P26 THR 1734355 50 11 50.00 CCDN 2,5/11-G1 P26 THR 1734355 50 12 55.00 CCDN 2,5/12-G1 P26 THR 1734371 50 13 60.00 CCDN 2,5/13-G1 P26 THR 1734397 50 14 65.00 CCDN 2,5/13-G1 P26 THR 1734397 50 15 70.00 CCDN 2,5/16-G1 P26 THR 1734397 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734407 50 17 CCDN 2,5/16-G1 P26 THR 1734410 50 18 CCDN 2,5/16-G1 P26 THR 1734410 50 19 CCDN 2,5/16-G1 P26 THR 1734410 50 10 CCDN 2,5/16-G1 P26 THR 1753132 50 11 CCDN 2,5/3-G1-5,08 P26 THR 1753145 50 11 CCDN 2,5/3-G1-5,08 P26 THR 1753158 50 11 CCDN 2,5/5-G1-5,08 P26 THR 1753158 50 11 CCDN 2,5/5-G1-5,08 P26 THR 1753151 50 11 CCDN 2,5/5-G1-5,08 P26 THR 1753151 50 11 CCDN 2,5/5-G1-5,08 P26 THR 1753174 50 11 CCDN 2,5/5-G1-5,08 P26 THR 1753190 50 12 CCDN 2,5/6-G1-5,08 P26 THR 1753190 50 13 60.96 CCDN 2,5/10-G1-5,08 P26 THR 1753233 50 11 50.80 CCDN 2,5/10-G1-5,08 P26 THR 1753239 50 12 55.88 CCDN 2,5/10-G1-5,08 P26 THR 1753242 50 13 60.96 CCDN 2,5/12-G1-5,08 P26 THR 1753245 50 14 66.04 CCDN 2,5/12-G1-5,08 P26 THR 1753245 50 15 71.12 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 15 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 17 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 18 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 18 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 18 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 19 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 10 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 11 66.04 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 11 66.04 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 11 66.04 CCDN 2,5/13-G1-5,08 P26 THR 1753255 50	6	25.00	CCDN 2,5/ 6-G1 P26 THR	1734313	50
9 40.00 CCDN 2,5/9-G1 P26 THR 1734342 50 10 45.00 CCDN 2,5/10-G1 P26 THR 1734355 50 11 50.00 CCDN 2,5/11-G1 P26 THR 1734355 50 12 55.00 CCDN 2,5/13-G1 P26 THR 1734371 50 13 60.00 CCDN 2,5/13-G1 P26 THR 1734371 50 14 65.00 CCDN 2,5/13-G1 P26 THR 1734397 50 15 70.00 CCDN 2,5/16-G1 P26 THR 1734397 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734407 50 17 75.00 CCDN 2,5/16-G1 P26 THR 1734410 50 18 75.00 CCDN 2,5/16-G1 P26 THR 1734410 50 19 CCDN 2,5/16-G1 P26 THR 1734410 50 10 75.00 CCDN 2,5/16-G1 P26 THR 1734410 50 11 75.00 CCDN 2,5/16-G1 P26 THR 1753145 50 2 5.08 CCDN 2,5/2-G1-5,08 P26 THR 1753145 50 2 5.08 CCDN 2,5/3-G1-5,08 P26 THR 1753145 50 2 CCDN 2,5/5-G1-5,08 P26 THR 1753158 50 2 CCDN 2,5/5-G1-5,08 P26 THR 1753161 50 2 CCDN 2,5/6-G1-5,08 P26 THR 1753174 50 2 CCDN 2,5/6-G1-5,08 P26 THR 1753187 50 2 CCDN 2,5/6-G1-5,08 P26 THR 1753190 50 3 40.64 CCDN 2,5/9-G1-5,08 P26 THR 1753190 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753231 50 11 50.80 CCDN 2,5/10-G1-5,08 P26 THR 1753239 50 12 55.88 CCDN 2,5/11-G1-5,08 P26 THR 1753242 50 13 60.96 CCDN 2,5/12-G1-5,08 P26 THR 1753245 50 14 66.04 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753245 50 15 71.12 CCDN 2,5/14-G1-5,08 P26 THR 1753245 50	7	30.00	CCDN 2,5/ 7-G1 P26 THR	1734326	50
10 45.00 CCDN 2,5/10-G1 P26 THR 1734355 50 11 50.00 CCDN 2,5/11-G1 P26 THR 1734368 50 12 55.00 CCDN 2,5/12-G1 P26 THR 1734371 50 13 60.00 CCDN 2,5/13-G1 P26 THR 1734371 50 14 65.00 CCDN 2,5/13-G1 P26 THR 1734397 50 15 70.00 CCDN 2,5/14-G1 P26 THR 1734407 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734407 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734410 50 Headers, 5.08 mm pitch, color: Black 2 5.08 CCDN 2,5/2-G1-5,08 P26 THR 1753132 50 3 10.16 CCDN 2,5/3-G1-5,08 P26 THR 1753145 50 4 15.24 CCDN 2,5/3-G1-5,08 P26 THR 1753145 50 5 20.32 CCDN 2,5/3-G1-5,08 P26 THR 1753161 50 6 25.40 CCDN 2,5/6-G1-5,08 P26 THR 1753161 50 6 25.40 CCDN 2,5/6-G1-5,08 P26 THR 1753187 50 7 30.48 CCDN 2,5/6-G1-5,08 P26 THR 1753187 50 8 35.56 CCDN 2,5/6-G1-5,08 P26 THR 1753190 50 9 40.64 CCDN 2,5/6-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/1-G1-5,08 P26 THR 1753231 50 10 45.72 CCDN 2,5/1-G1-5,08 P26 THR 1753220 50 10 45.72 CCDN 2,5/1-G1-5,08 P26 THR 1753229 50 12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753239 50 13 60.96 CCDN 2,5/12-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/13-G1-5,08 P26 THR 1753245 50 15 71.12 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50		35.00	· · · · · · · · · · · · · · · · · · ·		
11 50.00 CCDN 2,5/11-G1 P26 THR 1734368 50 12 55.00 CCDN 2,5/12-G1 P26 THR 1734371 50 13 60.00 CCDN 2,5/13-G1 P26 THR 1734384 50 14 65.00 CCDN 2,5/14-G1 P26 THR 1734397 50 15 70.00 CCDN 2,5/15-G1 P26 THR 1734407 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734410 50 Headers, 5.08 mm pitch, color: Black CCDN 2,5/2-G1-5,08 P26 THR 1753132 50 3 10.16 CCDN 2,5/3-G1-5,08 P26 THR 1753145 50 4 15.24 CCDN 2,5/3-G1-5,08 P26 THR 1753158 50 5 20.32 CCDN 2,5/3-G1-5,08 P26 THR 1753161 50 6 25.40 CCDN 2,5/3-G1-5,08 P26 THR 1753174 50 7 30.48 CCDN 2,5/3-G1-5,08 P26 THR 1753187 50 8 35.56 CCDN 2,5/3-G1-5,08 P26 THR 1753190 50 9 40.64 CCDN 2,5/1-G1-5,08 P26 THR	9	40.00	CCDN 2,5/ 9-G1 P26 THR	1734342	50
12 55.00 CCDN 2,5/12-G1 P26 THR 1734371 50 13 60.00 CCDN 2,5/13-G1 P26 THR 1734384 50 14 65.00 CCDN 2,5/13-G1 P26 THR 1734397 50 15 70.00 CCDN 2,5/16-G1 P26 THR 1734407 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734410 50 Headers, 5.08 mm pitch, color: Black 2 5.08 CCDN 2,5/16-G1 P26 THR 1753132 50 3 10.16 CCDN 2,5/3-G1-5,08 P26 THR 1753145 50 4 15.24 CCDN 2,5/3-G1-5,08 P26 THR 1753158 50 5 20.32 CCDN 2,5/5-G1-5,08 P26 THR 1753156 50 6 25.40 CCDN 2,5/5-G1-5,08 P26 THR 1753174 50 7 30.48 CCDN 2,5/5-G1-5,08 P26 THR 1753174 50 8 35.56 CCDN 2,5/5-G1-5,08 P26 THR 1753187 50 9 40.64 CCDN 2,5/5-G1-5,08 P26 THR 1753190 50 9 40.64 CCDN 2,5/5-G1-5,08 P26 THR 1753190 50 10 45.72 CCDN 2,5/5-G1-5,08 P26 THR 1753230 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753233 50 11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753225 50 13 60.96 CCDN 2,5/12-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753245 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753245 50	10	45.00	CCDN 2,5/10-G1 P26 THR	1734355	50
13 60.00 CCDN 2,5/13-G1 P26 THR 1734384 50 14 65.00 CCDN 2,5/14-G1 P26 THR 1734397 50 15 70.00 CCDN 2,5/15-G1 P26 THR 1734407 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734410 50 Headers, 5.08 mm pitch, color: Black 2 5.08 CCDN 2,5/2-G1-5,08 P26 THR 1753132 50 3 10.16 CCDN 2,5/3-G1-5,08 P26 THR 1753145 50 4 15.24 CCDN 2,5/3-G1-5,08 P26 THR 1753158 50 5 20.32 CCDN 2,5/5-G1-5,08 P26 THR 1753158 50 6 25.40 CCDN 2,5/5-G1-5,08 P26 THR 1753174 50 7 30.48 CCDN 2,5/5-G1-5,08 P26 THR 1753187 50 8 35.56 CCDN 2,5/5-G1-5,08 P26 THR 1753190 50 9 40.64 CCDN 2,5/9-G1-5,08 P26 THR 1753190 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753233 50 11 50.80 CCDN 2,5/10-G1-5,08 P26 THR 1753239 50 12 55.88 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/11-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753245 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753255 50	11	50.00	CCDN 2,5/11-G1 P26 THR	1734368	50
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15 70.00 CCDN 2,5/15-G1 P26 THR 1734407 50 16 75.00 CCDN 2,5/16-G1 P26 THR 1734410 50 Headers, 5.08 mm pitch, color: Black 2 5.08 CCDN 2,5/2-G1-5,08 P26 THR 1753132 50 3 10.16 CCDN 2,5/3-G1-5,08 P26 THR 1753145 50 4 15.24 CCDN 2,5/3-G1-5,08 P26 THR 1753158 50 5 20.32 CCDN 2,5/3-G1-5,08 P26 THR 1753161 50 6 25.40 CCDN 2,5/3-G1-5,08 P26 THR 1753187 50 7 30.48 CCDN 2,5/3-G1-5,08 P26 THR 1753187 50 8 35.56 CCDN 2,5/3-G1-5,08 P26 THR 1753187 50 9 40.64 CCDN 2,5/9-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753213 50 11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/13-G1-5,08 P26 THR 1753239 50	13	60.00	CCDN 2,5/13-G1 P26 THR	1734384	50
16 75.00 CCDN 2,5/16-G1 P26 THR Headers, 5.08 mm pitch, color: Black CCDN 2,5/2-G1-5,08 P26 THR 1753132 50 3 10.16 CCDN 2,5/3 -G1-5,08 P26 THR 1753145 50 4 15.24 CCDN 2,5/4-G1-5,08 P26 THR 1753145 50 50 20.32 CCDN 2,5/5-G1-5,08 P26 THR 1753161 50 6 25.40 CCDN 2,5/5-G1-5,08 P26 THR 1753174 50 7 30.48 CCDN 2,5/6-G1-5,08 P26 THR 1753174 50 CCDN 2,5/6-G1-5,08 P26 THR 1753187 50 9 40.64 CCDN 2,5/6-G1-5,08 P26 THR 1753190 50 10 45.72 CCDN 2,5/6-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753213 50 11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/11-G1-5,08 P26 THR 1753239 50 13 60.96 CCDN 2,5/11-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753245 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753258 50	14	65.00	CCDN 2,5/14-G1 P26 THR	1734397	50
Headers, 5.08 mm pitch, color: Black CCDN 2,5/ 2-G1-5,08 P26 THR 1753132 50 3 10.16 CCDN 2,5/ 3-G1-5,08 P26 THR 1753145 50 4 15.24 CCDN 2,5/ 3-G1-5,08 P26 THR 1753145 50 50 20.32 CCDN 2,5/ 5-G1-5,08 P26 THR 1753161 50 6 25.40 CCDN 2,5/ 5-G1-5,08 P26 THR 1753174 50 7 30.48 CCDN 2,5/ 6-G1-5,08 P26 THR 1753187 50 6 25.40 CCDN 2,5/ 6-G1-5,08 P26 THR 1753187 50 7 30.48 CCDN 2,5/ 8-G1-5,08 P26 THR 1753190 50 7 30.48 CCDN 2,5/ 8-G1-5,08 P26 THR 1753190 50 7 30.48 CCDN 2,5/ 9-G1-5,08 P26 THR 1753200 50 7 30.48 CCDN 2,5/ 9-G1-5,08 P26 THR 1753213 50 7 30.48 CCDN 2,5/ 10-G1-5,08 P26 THR 1753226 50 7 30.48 CCDN 2,5/ 12-G1-5,08 P26 THR 1753226 50 7 30.48 CCDN 2,5/ 12-G1-5,08 P26 THR 1753226 50 7 30.48 CCDN 2,5/ 12-G1-5,08 P26 THR 1753242 50 7 30.48 CCDN 2,5/ 14-G1-5,08 P26 THR 1753245 50 7 30.48 7 30.	15	70.00	CCDN 2,5/15-G1 P26 THR	1734407	50
2 5.08 CCDN 2,5/ 2-G1-5,08 P26 THR 1753132 50 3 10.16 CCDN 2,5/ 3-G1-5,08 P26 THR 1753145 50 4 15.24 CCDN 2,5/ 3-G1-5,08 P26 THR 1753158 50 5 20.32 CCDN 2,5/ 5-G1-5,08 P26 THR 1753161 50 6 25.40 CCDN 2,5/ 6-G1-5,08 P26 THR 1753174 50 7 30.48 CCDN 2,5/ 6-G1-5,08 P26 THR 1753187 50 8 35.56 CCDN 2,5/ 8-G1-5,08 P26 THR 1753190 50 9 40.64 CCDN 2,5/ 9-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753203 50 11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753226 50 13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753245 50 15 71.12 CCDN 2,5/15-G	16	75.00	CCDN 2,5/16-G1 P26 THR	1734410	50
3 10.16 CCDN 2,5/ 3-G1-5,08 P26 THR 1753145 50 4 15.24 CCDN 2,5/ 4-G1-5,08 P26 THR 1753158 50 5 20.32 CCDN 2,5/ 5-G1-5,08 P26 THR 1753161 50 6 25.40 CCDN 2,5/ 6-G1-5,08 P26 THR 1753167 50 7 30.48 CCDN 2,5/ 6-G1-5,08 P26 THR 1753187 50 8 35.56 CCDN 2,5/ 8-G1-5,08 P26 THR 1753187 50 9 40.64 CCDN 2,5/ 8-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/ 9-G1-5,08 P26 THR 1753213 50 11 50.80 CCDN 2,5/10-G1-5,08 P26 THR 1753229 50 12 55.88 CCDN 2,5/11-G1-5,08 P26 THR 1753239 50 13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753258 50			Headers, 5.08 mm pitch, color: Black		
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6 25.40 CCDN 2,5/ 6-G1-5,08 P26 THR 1753174 50 7 30.48 CCDN 2,5/ 7-G1-5,08 P26 THR 1753187 50 8 35.56 CCDN 2,5/ 8-G1-5,08 P26 THR 1753190 50 9 40.64 CCDN 2,5/ 9-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753213 50 11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753229 50 13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753245 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	4	15.24	CCDN 2,5/ 4-G1-5,08 P26 THR	1753158	50
7 30.48 CCDN 2,5/ 7-G1-5,08 P26 THR 1753187 50 8 35.56 CCDN 2,5/ 8-G1-5,08 P26 THR 1753190 50 9 40.64 CCDN 2,5/ 9-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753213 50 11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/11-G1-5,08 P26 THR 1753239 50 13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/13-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	5	20.32	CCDN 2,5/ 5-G1-5,08 P26 THR	1753161	50
8 35.56 CCDN 2,5/8-G1-5,08 P26 THR 1753190 50 9 40.64 CCDN 2,5/9-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753213 50 11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753239 50 13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	6	25.40	CCDN 2,5/ 6-G1-5,08 P26 THR	1753174	50
9 40.64 CCDN 2,5/ 9-G1-5,08 P26 THR 1753200 50 10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753213 50 11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753239 50 13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	7	30.48	CCDN 2,5/ 7-G1-5,08 P26 THR	1753187	50
10 45.72 CCDN 2,5/10-G1-5,08 P26 THR 1753213 50 11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753229 50 13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	8	35.56	CCDN 2,5/ 8-G1-5,08 P26 THR	1753190	50
11 50.80 CCDN 2,5/11-G1-5,08 P26 THR 1753226 50 12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753239 50 13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	9	40.64	CCDN 2,5/ 9-G1-5,08 P26 THR	1753200	50
12 55.88 CCDN 2,5/12-G1-5,08 P26 THR 1753239 50 13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	10	45.72	CCDN 2,5/10-G1-5,08 P26 THR	1753213	50
13 60.96 CCDN 2,5/13-G1-5,08 P26 THR 1753242 50 14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	11	50.80	CCDN 2,5/11-G1-5,08 P26 THR	1753226	50
14 66.04 CCDN 2,5/14-G1-5,08 P26 THR 1753255 50 15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	12	55.88	CCDN 2,5/12-G1-5,08 P26 THR	1753239	50
15 71.12 CCDN 2,5/15-G1-5,08 P26 THR 1753268 50	13	60.96	CCDN 2,5/13-G1-5,08 P26 THR	1753242	50
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	14	66.04	CCDN 2,5/14-G1-5,08 P26 THR	1753255	50
	15	71.12	CCDN 2,5/15-G1-5,08 P26 THR	1753268	50
16 76.20 CCDN 2,5/16-G1-5,08 P26 THR 1753271 50	16	76.20	CCDN 2,5/16-G1-5,08 P26 THR	1753271	50



Double-level header, with threaded flange, plug-in direction parallel to the PCB







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 5.0 mm, color: Black				
CCDN 2,5/ 2-G1F P26 THR	1734449	50		
CCDN 2,5/ 3-G1F P26 THR	1734452	50		
CCDN 2,5/ 4-G1F P26 THR	1734465	50		
CCDN 2,5/ 5-G1F P26 THR	1734478	50		
CCDN 2,5/ 6-G1F P26 THR	1734481	50		
CCDN 2,5/ 7-G1F P26 THR	1734494	50		
CCDN 2,5/ 8-G1F P26 THR	1734504	50		
CCDN 2,5/ 9-G1F P26 THR	1734517	50		
CCDN 2,5/10-G1F P26 THR	1734520	50		
CCDN 2,5/11-G1F P26 THR	1734533	50		
CCDN 2,5/12-G1F P26 THR	1734546	50		
CCDN 2,5/13-G1F P26 THR	1734559	50		
CCDN 2,5/14-G1F P26 THR	1734562	50		
CCDN 2,5/15-G1F P26 THR	1734575	50		
CCDN 2,5/16-G1F P26 THR	1734588	50		
Headers, 5.08 mm pitch, color: Black				
CCDN 2,5/ 2-G1F-5,08 P26 THR	1753307	50		
CCDN 2,5/ 3-G1F-5,08 P26 THR	1753310	50		
CCDN 2,5/ 4-G1F-5,08 P26 THR	1753323	50		
CCDN 2,5/ 5-G1F-5,08 P26 THR	1753336	50		
CCDN 2,5/ 6-G1F-5,08 P26 THR	1753349	50		
CCDN 2,5/ 7-G1F-5,08 P26 THR	1753352	50		
CCDN 2,5/ 8-G1F-5,08 P26 THR	1753365	50		
CCDN 2,5/ 9-G1F-5,08 P26 THR	1753378	50		
CCDN 2,5/10-G1F-5,08 P26 THR	1753381	50		
CCDN 2,5/11-G1F-5,08 P26 THR	1753394	50		
CCDN 2,5/12-G1F-5,08 P26 THR	1753404	50		
CCDN 2,5/13-G1F-5,08 P26 THR	1753417	50		
CCDN 2,5/14-G1F-5,08 P26 THR	1753420	50		
CCDN 2,5/15-G1F-5,08 P26 THR	1753433	50		
CCDN 2,5/16-G1F-5,08 P26 THR	1753446	50		

Orthogonal header for reflow processes



- Orthogonal headers for the throughhole reflow process
- Made of highly temperature-resistant polyamide for use in lead-free solder processes
- Integrated suction surface for Pick and Place
- Standard form of delivery: taped, loose as an option
- For ME/ME MAX electronic housing
- Plug-in direction orthogonal to the PCB
- 2-, 3- and 4-pos.
- Pitch 5 mm
- Connection cross section of up 2.5 mm²

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

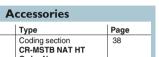
For all types

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

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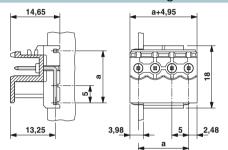


Pin strip leading off at a right angle

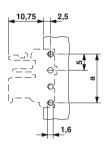


Dimensional drawing 14,65

P) 20 /P2



Drilling diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

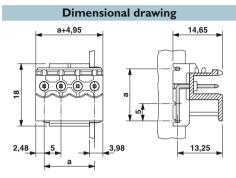
	16	
	320	
	5	
III/3	III/2	II / 2
250	320	400
4	4	4
В	С	D
300	-	300
12	-	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
	1.6 / 1 x 1	

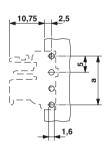
		Ordering data			
		Туре	Order No.	Pcs. / Pkt.	
o. of pos.	Dim. a [mm]	Pitch 5.0 mm, color: Black			
2	5.00	MSTBO 2,5/ 2-G1L THRR32 BK	2200251	230	
3	10.00	MSTBO 2,5/3 G1L THRR44 BK	2915216	170	
4	15.00	MSTBO 2,5/ 4-G1L THRR44 BK	2697194	100	



Pin strip leading off at a right angle "right"

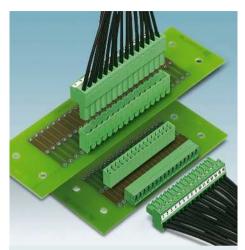






Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 5.0 mm, color: Black				
MSTBO 2,5/ 2-G1R THRR32 BK	2200252	230		
MSTBO 2,5/3 G1R THRR44 BK	2915229	170		
MSTBO 2,5/ 4-G1R THRR44 BK	2697204	100		

Single-level header for press-in technology



- Pin strips with flexible press-in zone **ERNI-PRESS**
- Processing as per EN 60352-5
- Press-in tools available on request
- Versions with and without a threaded
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

Press-in technology and the structure of the metal-plated hole are explained on page 31.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C.

COMBICON select

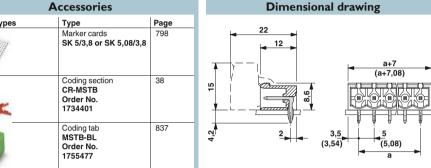
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

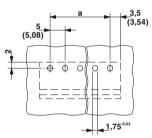
1) EMSTBVA 2,5/...-G from 2- to 12-pos., insulation material/insulation material group: PA/I



With side panels, plug-in direction parallel to the PCB

CB CB





For all types	Туре	Page
. /	Marker cards SK 5/3,8 or SK 5,08/3,8	798
*	Coding section CR-MSTB Order No. 1734401	38
	Coding tab MSTB-BL Order No. 1755477	837
	Stamp holder EMSTB 2,5-SH Order No. 1877203	826
Only for EMSTBVA 2	,5/G and EMSTBV 2,5/C	
and the same of th	Stamp set EMSTBVA 2,5_SS Order No. 1877216	826

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	12	
	320	
	5 / 5.08	
III/3	III/2	II / 2
250	320	400
4	4	4
В	С	D
300	-	300
15	-	15
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PBT / Illa1)	
	V0	
	1.75 / 1,7 mr	n

		Ordering data				
		Туре	Order No.	Pcs. / Pkt.		
o. of pos.	Dim. a [mm]	5.0 mm pitch, color: green				
2	5.00	EMSTBA 2,5/ 2-G	1899841	50		
3	10.00	EMSTBA 2,5/ 3-G	1899854	50		
4	15.00	EMSTBA 2,5/ 4-G	1899867	50		
5	20.00	EMSTBA 2,5/ 5-G	1899870	50		
6	25.00	EMSTBA 2,5/ 6-G	1899883	50		
7	30.00	EMSTBA 2,5/ 7-G	1899896	50		
8	35.00	EMSTBA 2,5/ 8-G	1899906	50		
9	40.00	EMSTBA 2,5/ 9-G	1899919	50		
10	45.00	EMSTBA 2,5/10-G	1899922	50		
11	50.00	EMSTBA 2,5/11-G	1899935	50		
12	55.00	EMSTBA 2,5/12-G	1899948	50		
13	60.00	EMSTBA 2,5/13-G	1899951	50		
14	65.00	EMSTBA 2,5/14-G	1899964	50		
15	70.00	EMSTBA 2,5/15-G	1899977	50		
16	75.00	EMSTBA 2,5/16-G	1899980	50		
		5.08 mm pitch, color: green				
2	5.08	EMSTBA 2,5/ 2-G-5,08	1880300	50		
3	10.16	EMSTBA 2,5/ 3-G-5,08	1880313	50		
4	15.24	EMSTBA 2,5/ 4-G-5,08	1880326	50		
5	20.32	EMSTBA 2,5/ 5-G-5,08	1880339	50		
6	25.40	EMSTBA 2,5/ 6-G-5,08	1880342	50		
7	30.48	EMSTBA 2,5/ 7-G-5,08	1880355	50		
8	35.56	EMSTBA 2,5/ 8-G-5,08	1880368	50		
9	40.64	EMSTBA 2,5/ 9-G-5,08	1880371	50		
10	45.72	EMSTBA 2,5/10-G-5,08	1880384	50		
11	50.80	EMSTBA 2,5/11-G-5,08	1880397	50		
12	55.88	EMSTBA 2,5/12-G-5,08	1880407	50		
13	60.96	EMSTBA 2,5/13-G-5,08	1880410	50		
14	66.04	EMSTBA 2,5/14-G-5,08	1880423	50		
15	71.12	EMSTBA 2,5/15-G-5,08	1880436	50		
16	76.20	EMSTBA 2,5/16-G-5,08	1880449	50		



With threaded flange, plug-in direction parallel to the PCB



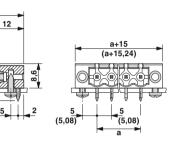
With side panels, plug-in direction vertical to the PCB



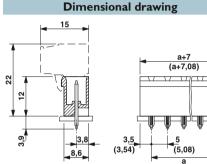
With threaded flange, plug-in direction vertical to the PCB

c**FLL**us PC ADE CB

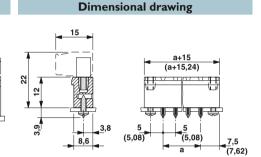
Dimensional drawing







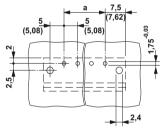
CB CB

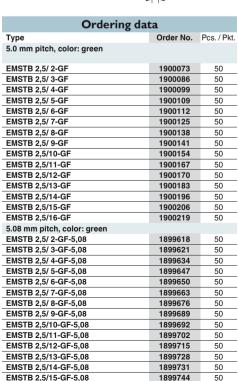


Drilling diagram

Drilling diagram

Drilling diagram

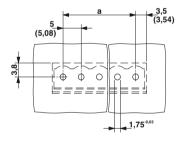




1899757

50

EMSTB 2.5/16-GF-5.08

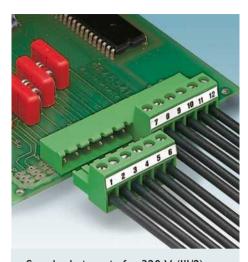


Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
EMSTBVA 2,5/ 2-G	1914852	50
EMSTBVA 2,5/ 3-G	1914865	50
EMSTBVA 2,5/ 4-G	1914878	50
EMSTBVA 2,5/ 5-G	1914881	50
EMSTBVA 2,5/ 6-G	1914894	50
EMSTBVA 2,5/ 7-G	1914904	50
EMSTBVA 2,5/ 8-G	1914917	50
EMSTBVA 2,5/ 9-G	1914920	50
EMSTBVA 2,5/10-G	1914933	50
EMSTBVA 2,5/11-G	1914946	50
EMSTBVA 2,5/12-G	1914959	50
EMSTBVA 2,5/13-G	1914962	50
EMSTBVA 2,5/14-G	1914975	50
EMSTBVA 2,5/15-G	1914988	50
EMSTBVA 2,5/16-G	1914991	50
5.08 mm pitch, color: green		
EMSTBVA 2,5/ 2-G-5,08	1859519	50
EMSTBVA 2,5/ 3-G-5,08	1859522	50
EMSTBVA 2,5/ 4-G-5,08	1859535	50
EMSTBVA 2,5/ 5-G-5,08	1859548	50
EMSTBVA 2,5/ 6-G-5,08	1859551	50
EMSTBVA 2,5/ 7-G-5,08	1859564	50
EMSTBVA 2,5/ 8-G-5,08	1859577	50
EMSTBVA 2,5/ 9-G-5,08	1859580	50
EMSTBVA 2,5/10-G-5,08	1859593	50
EMSTBVA 2,5/11-G-5,08	1859603	50
EMSTBVA 2,5/12-G-5,08	1859616	50
EMSTBVA 2,5/13-G-5,08	1859629	50
EMSTBVA 2,5/14-G-5,08	1859632	50
EMSTBVA 2,5/15-G-5,08	1859645	50
EMSTBVA 2,5/16-G-5,08	1859658	50

(5,08)	a 5 (5,08)	7,5 (7,62)	•
3.8	φ ο	,75-0,03	4,2

	Ordering dat	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	5.0 mm pitch, color: green		
	EMSTBV 2,5/ 2-GF	1914055	50
	EMSTBV 2,5/ 3-GF	1914068	50
	EMSTBV 2,5/ 4-GF	1914071	50
	EMSTBV 2,5/ 5-GF	1914084	50
	EMSTBV 2,5/ 6-GF	1915107	50
	EMSTBV 2,5/ 7-GF	1915110	50
	EMSTBV 2,5/ 8-GF	1915123	50
	EMSTBV 2,5/ 9-GF	1915136	50
	EMSTBV 2,5/10-GF	1915149	50
	EMSTBV 2,5/11-GF	1915152	50
	EMSTBV 2,5/12-GF	1915165	50
	EMSTBV 2,5/13-GF	1915178	50
	EMSTBV 2,5/14-GF	1915181	50
	EMSTBV 2,5/15-GF	1915194	50
	EMSTBV 2,5/16-GF	1915204	50
	5.08 mm pitch, color: green		
	EMSTBV 2,5/ 2-GF-5,08	1915217	50
	EMSTBV 2,5/ 3-GF-5,08	1898648	50
	EMSTBV 2,5/ 4-GF-5,08	1915233	50
	EMSTBV 2,5/ 5-GF-5,08	1915246	50
	EMSTBV 2,5/ 6-GF-5,08	1915259	50
	EMSTBV 2,5/ 7-GF-5,08	1915262	50
	EMSTBV 2,5/ 8-GF-5,08	1915275	50
	EMSTBV 2,5/ 9-GF-5,08	1915288	50
	EMSTBV 2,5/10-GF-5,08	1915291	50
	EMSTBV 2,5/11-GF-5,08	1915301	50
	EMSTBV 2,5/12-GF-5,08	1915314	50
	EMSTBV 2,5/13-GF-5,08	1915327	50
	EMSTBV 2,5/14-GF-5,08	1915330	50
	EMSTBV 2,5/15-GF-5,08	1915343	50
	EMSTBV 2,5/16-GF-5,08	1915356	50

Single-level header for the wave soldering processes



- Standard pin strip for 320 V (III/2)
- Plug-in direction parallel to the conductor axis
- Designs with and without side panel
- W-type with stand-off
- Versions with engagement noses for locking plugs with self-locking flanges
- Other pin lengths available on request
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Mounting screws for MSTB 2,5/...-GF(-5,08): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

1) MSTB 2,5/...-G and MSTBA 2,5/....-G from 2- to 12-pos.: insulation material/insulation material group = PA/I, more than 12-pos.: insulation material/insulation material group = PBT/IIIa.



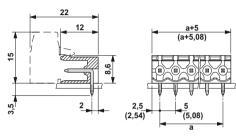
Without side panels, plug-in direction parallel to the PCB

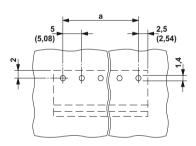
© c¶ us PC √où CB.

Accessories For all types Туре Page Marker cards 798 SK 5/3,8 or SK 5,08/3,8 Coding section 38 CR-MŠTB Order No. 1734401 Coding tab MSTB-BL 837 Order No. 1755477 Only for MSTB 2,5/...-G



Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	12	
	320	
	320	
	5 / 5.08	
III/3	III/2	11/2
250	320	400
4	4	4
В	С	D
300	-	300
15	-	15
-	-	-
В	С	D
300	-	300
10	-	10
-	-	-
	PBT / Illa1)	
	V0	
	1.4 / 1 x 1 mm	

		Ordering date	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a	5.0 mm pitch, color: green		
	[mm]			
2	5.00	MSTB 2,5/ 2-G	1754436	250
3	10.00	MSTB 2,5/ 3-G	1754452	250
4	15.00	MSTB 2,5/ 4-G	1754478	250
5	20.00	MSTB 2,5/ 5-G	1754494	250
6	25.00	MSTB 2,5/ 6-G	1754517	100
7	30.00	MSTB 2,5/ 7-G	1754533	100
8	35.00	MSTB 2,5/ 8-G	1754559	100
9	40.00	MSTB 2,5/ 9-G	1754575	100
10	45.00	MSTB 2,5/10-G	1754591	100
11	50.00	MSTB 2,5/11-G	1754614	50
12	55.00	MSTB 2,5/12-G	1754630	50
13	60.00	MSTB 2,5/13-G	1754656	50
14	65.00	MSTB 2,5/14-G	1754672	50
15	70.00	MSTB 2,5/15-G	1754698	50
16	75.00	MSTB 2,5/16-G	1754711	50
		5.08 mm pitch, color: green		
2	5.08	MSTB 2,5/ 2-G-5,08	1759017	250
3	10.16	MSTB 2,5/ 3-G-5,08	1759020	250
4	15.24	MSTB 2,5/ 4-G-5,08	1759033	250
5	20.32	MSTB 2,5/ 5-G-5,08	1759046	250
6	25.40	MSTB 2,5/ 6-G-5,08	1759059	100
7	30.48	MSTB 2,5/ 7-G-5,08	1759062	100
8	35.56	MSTB 2,5/ 8-G-5,08	1759075	100
9	40.64	MSTB 2,5/ 9-G-5,08	1759088	100
10	45.72	MSTB 2,5/10-G-5,08	1759091	100
11	50.80	MSTB 2,5/11-G-5,08	1759101	50
12	55.88	MSTB 2,5/12-G-5,08	1759114	50
13	60.96	MSTB 2,5/13-G-5,08	1759127	50
14	66.04	MSTB 2,5/14-G-5,08	1759130	50
15	71.12	MSTB 2,5/15-G-5,08	1759143	50
16	76.20	MSTB 2,5/16-G-5,08	1759156	50



Without side panels, with stand-off, plug-in direction parallel to the PCB



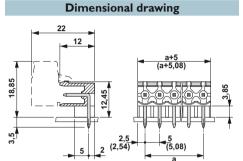
With side panels, plug-in direction parallel to the PCB

Dimensional drawing

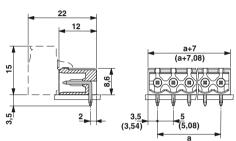


With engagement noses, plug-in direction parallel to the PCB

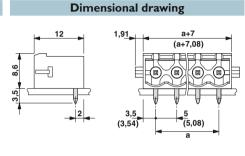
(F) cSN us CB scheme



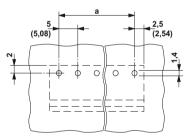
(cal us PC And CB



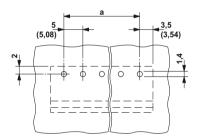
CB Scheme



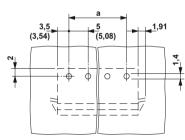
Drilling diagram



Drilling diagram



Dri	lling	diag	ram

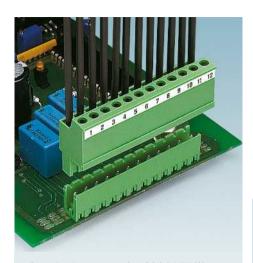


Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBW 2,5/ 2-G	1736111	50
MSTBW 2,5/ 3-G	1736108	50
MSTBW 2,5/ 4-G	1736098	50
MSTBW 2,5/ 5-G	1736085	50
MSTBW 2,5/ 6-G	1736072	50
MSTBW 2,5/ 7-G	1736069	50
MSTBW 2,5/ 8-G	1736056	50
MSTBW 2,5/ 9-G	1736043	50
MSTBW 2,5/10-G	1736030	50
MSTBW 2,5/11-G	1736027	50
MSTBW 2,5/12-G	1736014	50
MSTBW 2,5/13-G	1736001	50
MSTBW 2,5/14-G	1735992	50
MSTBW 2,5/15-G	1735989	50
MSTBW 2,5/16-G	1735976	50
5.08 mm pitch, color: green		
MSTBW 2,5/ 2-G-5,08	1735882	50
MSTBW 2,5/ 3-G-5,08	1735879	50
MSTBW 2,5/ 4-G-5,08	1735866	50
MSTBW 2,5/ 5-G-5,08	1735853	50
MSTBW 2,5/ 6-G-5,08	1735840	50
MSTBW 2,5/ 7-G-5,08	1735837	50
MSTBW 2,5/ 8-G-5,08	1735824	50
MSTBW 2,5/ 9-G-5,08	1735811	50
MSTBW 2,5/10-G-5,08	1735808	50
MSTBW 2,5/11-G-5,08	1735798	50
MSTBW 2,5/12-G-5,08	1735785	50
MSTBW 2,5/13-G-5,08	1735772	50
MSTBW 2,5/14-G-5,08	1735769	50
MSTBW 2,5/15-G-5,08	1735756	50
MSTBW 2,5/16-G-5,08	1735743	50

Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBA 2,5/ 2-G	1757475	250
MSTBA 2,5/ 3-G	1757488	250
MSTBA 2,5/ 4-G	1757491	250
MSTBA 2,5/ 5-G	1757501	250
MSTBA 2,5/ 6-G	1757514	100
MSTBA 2,5/ 7-G	1755493	100
MSTBA 2,5/ 8-G	1757527	100
MSTBA 2,5/ 9-G	1757530	100
MSTBA 2,5/10-G	1757543	100
MSTBA 2,5/11-G	1757556	50
MSTBA 2,5/12-G	1757569	50
MSTBA 2,5/13-G	1757572	50
MSTBA 2,5/14-G	1757585	50
MSTBA 2,5/15-G	1757598	50
MSTBA 2,5/16-G	1757608	50
5.08 mm pitch, color: green		
MSTBA 2,5/ 2-G-5,08	1757242	250
MSTBA 2,5/ 3-G-5,08	1757255	250
MSTBA 2,5/ 4-G-5,08	1757268	250
MSTBA 2,5/ 5-G-5,08	1757271	250
MSTBA 2,5/ 6-G-5,08	1757284	100
MSTBA 2,5/ 7-G-5,08	1757297	100
MSTBA 2,5/ 8-G-5,08	1757307	100
MSTBA 2,5/ 9-G-5,08	1757310	100
MSTBA 2,5/10-G-5,08	1757323	100
MSTBA 2,5/11-G-5,08	1757336	50
MSTBA 2,5/12-G-5,08	1757349	50
MSTBA 2,5/13-G-5,08	1757352	50
MSTBA 2,5/14-G-5,08	1757365	50
MSTBA 2,5/15-G-5,08	1757378	50
MSTBA 2,5/16-G-5,08	1757381	50

Ordering	data	
Туре	Order No.	Pcs. / Pkt
5.0 mm pitch, color: green		
MSTBA 2,5/ 2-G-RN	1944783	50
MSTBA 2,5/ 3-G-RN	1944796	50
MSTBA 2,5/ 4-G-RN	1944806	50
MSTBA 2,5/ 5-G-RN	1944819	50
MSTBA 2,5/ 6-G-RN	1944822	50
MSTBA 2,5/ 7-G-RN	1944835	50
MSTBA 2,5/ 8-G-RN	1944848	50
MSTBA 2,5/ 9-G-RN	1944851	50
MSTBA 2,5/10-G-RN	1944864	50
MSTBA 2,5/11-G-RN	1944877	50
MSTBA 2,5/12-G-RN	1944880	50
MSTBA 2,5/13-G-RN	1944893	50
MSTBA 2,5/14-G-RN	1944903	50
MSTBA 2,5/15-G-RN	1944916	50
MSTBA 2,5/16-G-RN	1944929	50
5.08 mm pitch, color: green		
MSTBA 2,5/ 2-G-5,08-RN	1926015	50
MSTBA 2,5/ 3-G-5,08-RN	1926028	50
MSTBA 2,5/ 4-G-5,08-RN	1926031	50
MSTBA 2,5/ 5-G-5,08-RN	1926044	50
MSTBA 2,5/ 6-G-5,08-RN	1926057	50
MSTBA 2,5/ 7-G-5,08-RN	1926060	50
MSTBA 2,5/ 8-G-5,08-RN	1926073	50
MSTBA 2,5/ 9-G-5,08-RN	1926086	50
MSTBA 2,5/10-G-5,08-RN	1926099	50
MSTBA 2,5/11-G-5,08-RN	1926109	50
MSTBA 2,5/12-G-5,08-RN	1926112	50
MSTBA 2,5/13-G-5,08-RN	1926125	50
MSTBA 2,5/14-G-5,08-RN	1926138	50
MSTBA 2,5/15-G-5,08-RN	1926141	50
MSTBA 2,5/16-G-5,08-RN	1926154	50

Single-level header for the wave soldering processes



- Standard pin strip for 320 V (III/2)
- Plug-in direction parallel and vertical to the PCB
- Designs with and without side panel
- Versions with a threaded flange
- Versions with Lock & Release locking
- Other pin lengths available on request
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Mounting screws for MSTB 2,5/...-GF(-5,08): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

1) MSTB 2,5/...-G and MSTBA 2,5/....-G from 2- to 12-pos.: insulation material/insulation material group = PA/I, more than 12-pos.: insulation material/insulation material group = PBT/IIIa

2) MSTBV(A) 2,5/ has 12 A in Use Group B.



With threaded flange, plug-in direction parallel to the PCB

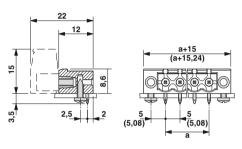
(1) SAN IS (2) (2) SAN IS (3) (3) SAN IS (4)

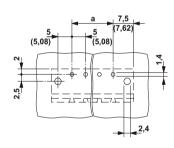
Accessories For all types Туре Page Marker cards 798 SK 5/3,8 or SK 5,08/3,8 Coding section CR-MŠTB Order No. 1734401 Coding tab MSTB-BL 837 Order No. 1755477



Mounting flange MSTB-BF Order No. 1759981

Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	12	
	320	
	020	
	5 / 5.08	
III/3	III/2	II / 2
250	320	400
4	4	4
В	С	D
300	-	300
15 ²)	-	15
-	-	-
В	С	D
300	-	300
10	-	10
-	-	-
	PBT / Illa1)	
	V0	

		Ordering data			
		Туре	Order No.	Pcs. / Pkt.	
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green			
2	5.00	MSTB 2,5/ 2-GF	1776692	250	
3	10.00	MSTB 2,5/ 3-GF	1776702	250	
4	15.00	MSTB 2,5/ 4-GF	1776715	250	
5	20.00	MSTB 2,5/ 5-GF	1776728	250	
6	25.00	MSTB 2,5/ 6-GF	1776731	100	
7	30.00	MSTB 2,5/ 7-GF	1776744	100	
8	35.00	MSTB 2,5/ 8-GF	1776757	100	
9	40.00	MSTB 2,5/ 9-GF	1776760	100	
10	45.00	MSTB 2,5/10-GF	1776773	100	
11	50.00	MSTB 2,5/11-GF	1776786	50	
12	55.00	MSTB 2,5/12-GF	1776799	50	
13	60.00	MSTB 2,5/13-GF	1776809	50	
14	65.00	MSTB 2,5/14-GF	1776812	50	
15	70.00	MSTB 2,5/15-GF	1776825	50	
16	75.00	MSTB 2,5/16-GF	1776838	50	
		5.08 mm pitch, color: green			
2	5.08	MSTB 2,5/ 2-GF-5,08	1776508	250	
3	10.16	MSTB 2,5/ 3-GF-5,08	1776511	250	
4	15.24	MSTB 2,5/ 4-GF-5,08	1776524	250	
5	20.32	MSTB 2,5/ 5-GF-5,08	1776537	250	
6	25.40	MSTB 2,5/ 6-GF-5,08	1776540	100	
7	30.48	MSTB 2,5/ 7-GF-5,08	1776553	100	
8	35.56	MSTB 2,5/ 8-GF-5,08	1776566	100	
9	40.64	MSTB 2,5/ 9-GF-5,08	1776579	100	
10	45.72	MSTB 2,5/10-GF-5,08	1776582	100	
11	50.80	MSTB 2,5/11-GF-5,08	1776595	50	
12	55.88	MSTB 2,5/12-GF-5,08	1776605	50	
13	60.96	MSTB 2,5/13-GF-5,08	1776618	50	
14	66.04	MSTB 2,5/14-GF-5,08	1776621	50	
15	71.12	MSTB 2,5/15-GF-5,08	1776634	50	
16	76.20	MSTB 2,5/16-GF-5,08	1776647	50	



Lock & Release locking, plug-in direction parallel to the PCB



Without side panels, plug-in direction vertical to the PCB



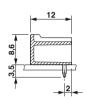
With side panels, plug-in direction vertical to the PCB

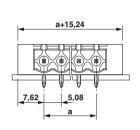
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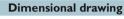
Dimensional drawing

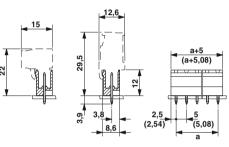


(F) LS CB

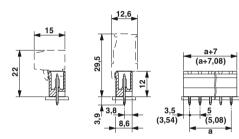








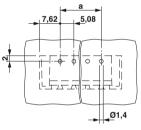
Dimensional drawing

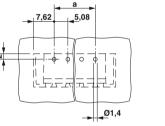


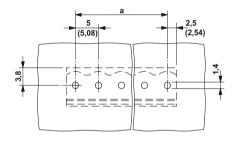
Drilling diagram

Drilling diagram

Drilling diagram







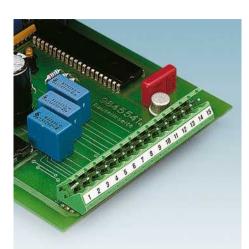
\$ E		5 (5,08) 3,5 (3,5)	4)
	3,8		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
MSTBA 2,5/ 2-G-5,08-LR	1809076	50		
MSTBA 2,5/ 3-G-5,08-LR	1809089	50		
MSTBA 2,5/ 4-G-5,08-LR	1809092	50		
MSTBA 2,5/ 5-G-5,08-LR	1809102	50		
MSTBA 2,5/ 6-G-5,08-LR	1809115	50		
MSTBA 2,5/ 7-G-5,08-LR	1809128	50		
MSTBA 2,5/ 8-G-5,08-LR	1809131	50		
MSTBA 2,5/ 9-G-5,08-LR	1809144	50		
MSTBA 2,5/10-G-5,08-LR	1809157	50		
MSTBA 2,5/11-G-5,08-LR	1809160	50		
MSTBA 2,5/12-G-5,08-LR	1809173	50		
MSTBA 2,5/13-G-5,08-LR	1809186	50		
MSTBA 2,5/14-G-5,08-LR	1809199	50		
MSTBA 2,5/15-G-5,08-LR	1809209	50		
MSTBA 2,5/16-G-5,08-LR	1809212	50		

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MSTBV 2,5/ 2-G	1753437	250	
MSTBV 2,5/ 3-G	1753453	250	
MSTBV 2,5/ 4-G	1753479	250	
MSTBV 2,5/ 5-G	1753495	250	
MSTBV 2,5/ 6-G	1753518	100	
MSTBV 2,5/ 7-G	1753534	100	
MSTBV 2,5/ 8-G	1753550	100	
MSTBV 2,5/ 9-G	1753576	100	
MSTBV 2,5/10-G	1753592	100	
MSTBV 2,5/11-G	1753615	50	
MSTBV 2,5/12-G	1753631	50	
MSTBV 2,5/13-G	1753657	50	
MSTBV 2,5/14-G	1753673	50	
MSTBV 2,5/15-G	1753699	50	
MSTBV 2,5/16-G	1753712	50	
5.08 mm pitch, color: green			
MSTBV 2,5/ 2-G-5,08	1758018	250	
MSTBV 2,5/ 3-G-5,08	1758021	250	
MSTBV 2,5/ 4-G-5,08	1758034	250	
MSTBV 2,5/ 5-G-5,08	1758047	250	
MSTBV 2,5/ 6-G-5,08	1758050	100	
MSTBV 2,5/ 7-G-5,08	1758063	100	
MSTBV 2,5/ 8-G-5,08	1758076	100	
MSTBV 2,5/ 9-G-5,08	1758089	100	
MSTBV 2,5/10-G-5,08	1758092	100	
MSTBV 2,5/11-G-5,08	1758102	50	
MSTBV 2,5/12-G-5,08	1758115	50	
MSTBV 2,5/13-G-5,08	1758128	50	
MSTBV 2,5/14-G-5,08	1758131	50	
MSTBV 2,5/15-G-5,08	1758144	50	
MSTBV 2,5/16-G-5,08	1758157	50	

Ordering data				
•		D / D) .		
Туре	Order No.	Pcs. / Pkt		
5.0 mm pitch, color: green				
MSTBVA 2,5/ 2-G	1755516	250		
MSTBVA 2,5/ 3-G	1755529	250		
MSTBVA 2,5/ 4-G	1755532	250		
MSTBVA 2,5/ 5-G	1755545	250		
MSTBVA 2,5/ 6-G	1755558	100		
MSTBVA 2,5/ 7-G	1755561	100		
MSTBVA 2,5/ 8-G	1755574	100		
MSTBVA 2,5/ 9-G	1755587	100		
MSTBVA 2,5/10-G	1755503	100		
MSTBVA 2,5/11-G	1755590	50		
MSTBVA 2,5/12-G	1755600	50		
MSTBVA 2,5/13-G	1755613	50		
MSTBVA 2,5/14-G	1755626	50		
MSTBVA 2,5/15-G	1755639	50		
MSTBVA 2,5/16-G	1755642	50		
5.08 mm pitch, color: green				
MSTBVA 2,5/ 2-G-5,08	1755736	250		
MSTBVA 2,5/ 3-G-5,08	1755749	250		
MSTBVA 2,5/ 4-G-5,08	1755752	250		
MSTBVA 2,5/ 5-G-5,08	1755765	250		
MSTBVA 2,5/ 6-G-5,08	1755778	100		
MSTBVA 2,5/ 7-G-5,08	1755781	100		
MSTBVA 2,5/ 8-G-5,08	1755794	100		
MSTBVA 2,5/ 9-G-5,08	1755804	100		
MSTBVA 2,5/10-G-5,08	1755817	100		
MSTBVA 2,5/11-G-5,08	1755820	50		
MSTBVA 2,5/12-G-5,08	1755833	50		
MSTBVA 2,5/13-G-5,08	1755846	50		
MSTBVA 2,5/14-G-5,08	1755859	50		
MSTBVA 2,5/15-G-5,08	1755862	50		
MSTBVA 2,5/16-G-5,08	1755875	50		

Single-level header for the wave soldering processes



- You can find higher numbers of positions

www.phoenixcontact.net/products

- Versions with a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions for Lock & Release locking
- Version with release aid

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

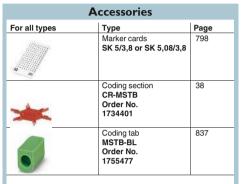
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

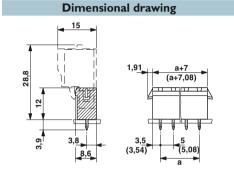
Mounting screws for MSTB 2,5/...-GF(-5,08): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

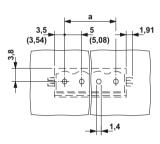


With engagement nose, plug-in direction vertical to the PCB

CB Scheme







Technical data		
Technical data in accordance to IEC / DIN VDE		
Rated current	[A]	
Rated insulation voltage for pollution degree 2	[V]	
Pitch	[mm]	Ξ
Insulation coordination		
Surge voltage category / pollution degree		
Rated insulation voltage	[V]	
Rated surge voltage	[kV]	
Approval data (UL/CUL)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
Approval data (CSA)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
General data		
Type of insulation material / insulation material group Inflammability class according to UL 94		_
		_

	12	
	320	
	5 / 5.08	
III/3	III/2	11/2
250	320	400
4	4	4
В	С	D
300	-	300
12	-	12
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	-/1	
	V0	

		Ordering da	ata	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a	5.0 mm pitch, color: green		
	[mm]			
2	5.00	MSTBVA 2,5/ 2-G-RN	1944592	50
3	10.00	MSTBVA 2,5/ 3-G-RN	1944602	50
4	15.00	MSTBVA 2,5/ 4-G-RN	1944615	50
5	20.00	MSTBVA 2,5/ 5-G-RN	1944628	50
6	25.00	MSTBVA 2,5/ 6-G-RN	1944631	50
7	30.00	MSTBVA 2,5/ 7-G-RN	1944644	50
8	35.00	MSTBVA 2,5/ 8-G-RN	1944657	50
9	40.00	MSTBVA 2,5/ 9-G-RN	1944660	50
10	45.00	MSTBVA 2,5/10-G-RN	1944673	50
11	50.00	MSTBVA 2,5/11-G-RN	1944686	50
12	55.00	MSTBVA 2,5/12-G-RN	1944699	50
13	60.00	MSTBVA 2,5/13-G-RN	1944709	50
14	65.00	MSTBVA 2,5/14-G-RN	1944712	50
15	70.00	MSTBVA 2,5/15-G-RN	1944725	50
16	75.00	MSTBVA 2,5/16-G-RN	1944738	50
		5.08 mm pitch, color: green		
2	10.16	MSTBVA 2,5/ 2-G-5,08-RN	1936018	50
3	10.16	MSTBVA 2,5/ 3-G-5,08-RN	1936021	50
4	15.24	MSTBVA 2,5/ 4-G-5,08-RN	1936034	50
5	20.32	MSTBVA 2,5/ 5-G-5,08-RN	1936047	50
6	25.40	MSTBVA 2,5/ 6-G-5,08-RN	1936050	50
7	30.48	MSTBVA 2,5/ 7-G-5,08-RN	1936063	50
8	35.56	MSTBVA 2,5/ 8-G-5,08-RN	1936076	50
9	40.64	MSTBVA 2,5/ 9-G-5,08-RN	1936089	50
10	45.72	MSTBVA 2,5/10-G-5,08-RN	1936092	50
11	50.80	MSTBVA 2,5/11-G-5,08-RN	1936102	50
12	55.88	MSTBVA 2,5/12-G-5,08-RN	1936115	50
13	60.96	MSTBVA 2.5/13-G-5.08-RN	1936128	50
14	66.04	MSTBVA 2,5/14-G-5,08-RN	1936131	50
15	71.12	MSTBVA 2,5/15-G-5,08-RN	1936144	50
16	76.20	MSTBVA 2,5/16-G-5,08-RN	1936157	50
.0	. 0.20		.000.01	





With threaded flange, plug-in direction vertical to the PCB



For Lock & Release locking, plug-in direction vertical to the PCB

Dimensional drawing



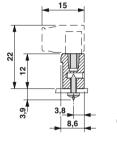
With release aid, plug-in direction vertical to the PCB

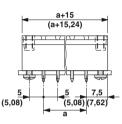
Dimensional drawing

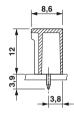


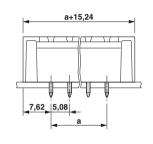


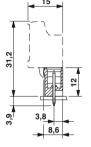


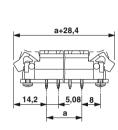








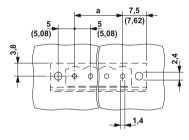


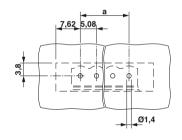


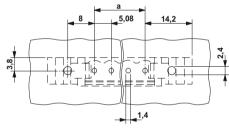
Drilling diagram

Drilling diagram

Drilling diagram







1776883 1776896 1776906 1776919 1776922 1776935 1776948 1776964 1776977	250 250 250 250 250 100 100 100 100
1776896 1776906 1776919 1776922 1776935 1776948 1776951 1776964 1776977	250 250 250 100 100 100
1776896 1776906 1776919 1776922 1776935 1776948 1776951 1776964 1776977	250 250 250 100 100 100
1776906 1776919 1776922 1776935 1776948 1776951 1776964 1776977	250 250 100 100 100 100
1776919 1776922 1776935 1776948 1776951 1776964 1776977	250 100 100 100 100
1776922 1776935 1776948 1776951 1776964 1776977	100 100 100 100
1776935 1776948 1776951 1776964 1776977	100 100 100
1776948 1776951 1776964 1776977	100 100
1776951 1776964 1776977	100
1776964 1776977	
1776977	100
1776000	50
1776980	50
1776993	50
1777002	50
1777015	50
1777028	50
1777073	250
1777086	250
1777099	250
1777109	250
1777112	100
1777125	100
1777138	100
1777141	100
1777154	100
1777167	50
1777170	50
1777170	50
1777183	50
1777183	50
	1777167 1777170 1777183

Ordering data				
Type	Order No.	Pcs. / Pkt.		
1,100	31del 140.	1 03.71 KL		
5.08 mm pitch, color: green				
MSTBVA 2,5/ 2-G-5,08-LR	1809267	50		
MSTBVA 2,5/ 3-G-5,08-LR	1809270	50		
MSTBVA 2,5/ 4-G-5,08-LR	1809283	50		
MSTBVA 2,5/ 5-G-5,08-LR	1809296	50		
MSTBVA 2,5/ 6-G-5,08-LR	1809306	50		
MSTBVA 2,5/ 7-G-5,08-LR	1809319	50		
MSTBVA 2,5/ 8-G-5,08-LR	1809322	50		
MSTBVA 2,5/ 9-G-5,08-LR	1809335	50		
MSTBVA 2,5/10-G-5,08-LR	1809348	50		
MSTBVA 2,5/11-G-5,08-LR	1809351	50		
MSTBVA 2,5/12-G-5,08-LR	1809364	50		
MSTBVA 2,5/13-G-5,08-LR	1809377	50		
MSTBVA 2,5/14-G-5,08-LR	1809380	50		

Ordering	data	
Туре	Order No.	Pcs. / Pkt
•		
5.08 mm pitch, color: green		
MSTBV 2,5/ 2-GEH-5,08	1808463	50
MSTBV 2,5/ 3-GEH-5,08	1808476	50
MSTBV 2,5/ 4-GEH-5,08	1808489	50
MSTBV 2,5/ 5-GEH-5,08	1808492	50
MSTBV 2,5/ 6-GEH-5,08	1808502	50
MSTBV 2,5/ 7-GEH-5,08	1808515	50
MSTBV 2,5/ 8-GEH-5,08	1808528	50
MSTBV 2,5/ 9-GEH-5,08	1808531	50
MSTBV 2,5/10-GEH-5,08	1808544	50
MSTBV 2,5/11-GEH-5,08	1808557	50
MSTBV 2,5/12-GEH-5,08	1808560	50
MSTBV 2,5/13-GEH-5,08	1808573	50
MSTBV 2,5/14-GEH-5,08	1808586	50
MSTBV 2,5/15-GEH-5,08	1808599	50
MSTBV 2,5/16-GEH-5,08	1808609	50

1809393

1809403

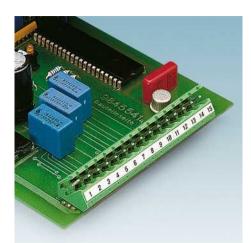
50

50

MSTBVA 2,5/15-G-5,08-LR

MSTBVA 2,5/16-G-5,08-LR

Single-level header for the wave soldering processes



- You can find higher numbers of positions

www.phoenixcontact.net/products

- Plug-in direction 45° to the PCB
- Used in cases of restricted overhead
- Designs with and without side panel

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

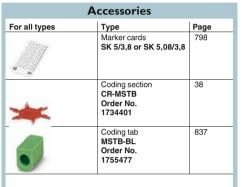
COMBICON select

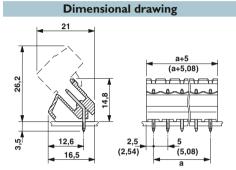
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

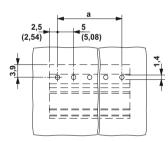


Without side panels, plug-in direction 45° to the PCB

€ .**\$1** us € CB.







Technical data		
Technical data in accordance to IEC / DIN VDE		
Rated current	[A]	
Rated insulation voltage for pollution degree 2	[V]	
Pitch	[mm]	
Insulation coordination		
Surge voltage category / pollution degree		III /
Rated insulation voltage	[V]	25
Rated surge voltage	[kV]	4
Approval data (UL/CUL)	Use Group	В
Nominal voltage	[V]	30
Nominal current	[A]	15
Connection capacity AWG	AWG	-
Approval data (CSA)	Use Group	В
Nominal voltage	[V]	30
Nominal current	[A]	10
Connection capacity AWG	AWG	-
General data		
Type of insulation material / insulation material group		
Inflammability class according to UL 94		
Drill hole diameter / pin dimensions	[mm]	

	12	
	320	
	5 / 5.08	
III/3	III/2	11/2
250	320	400
4	4	4
В	С	D
300	-	300
15	-	10
-	-	-
В	С	D
300	-	300
10	-	10
-	-	-
	PA/I	
	V0	
1	.4/1 x 1 mr	n

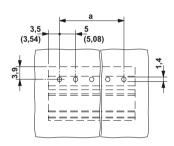
		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	SMSTB 2,5/ 2-G	1769230	50
3	10.00	SMSTB 2,5/ 3-G	1769243	50
4	15.00	SMSTB 2,5/ 4-G	1769256	50
5	20.00	SMSTB 2,5/ 5-G	1769269	50
6	25.00	SMSTB 2,5/ 6-G	1769272	50
7	30.00	SMSTB 2,5/ 7-G	1769285	50
8	35.00	SMSTB 2,5/ 8-G	1769298	50
9	40.00	SMSTB 2,5/ 9-G	1769308	50
10	45.00	SMSTB 2,5/10-G	1769311	50
11	50.00	SMSTB 2,5/11-G	1769324	50
12	55.00	SMSTB 2,5/12-G	1769337	50
13	60.00	SMSTB 2,5/13-G	1769340	50
14	65.00	SMSTB 2,5/14-G	1769353	50
15	70.00	SMSTB 2,5/15-G	1769366	50
16	75.00	SMSTB 2,5/16-G	1769379	50
		5.08 mm pitch, color: green		
2	5.08	SMSTB 2,5/ 2-G-5,08	1769463	50
3	10.16	SMSTB 2,5/ 3-G-5,08	1769476	50
4	15.24	SMSTB 2,5/ 4-G-5,08	1769489	50
5	20.32	SMSTB 2,5/ 5-G-5,08	1769492	50
6	25.40	SMSTB 2,5/ 6-G-5,08	1769502	50
7	30.48	SMSTB 2,5/ 7-G-5,08	1769515	50
8	35.56	SMSTB 2,5/ 8-G-5,08	1769528	50
9	40.64	SMSTB 2,5/ 9-G-5,08	1769531	50
10	45.72	SMSTB 2,5/10-G-5,08	1769544	50
11	50.80	SMSTB 2,5/11-G-5,08	1769557	50
12	55.88	SMSTB 2,5/12-G-5,08	1769560	50
13	60.96	SMSTB 2,5/13-G-5,08	1769573	50
14	66.04	SMSTB 2,5/14-G-5,08	1769586	50
15	71.12	SMSTB 2,5/15-G-5,08	1769599	50
16	76.20	SMSTB 2,5/16-G-5,08	1769609	50
		· · · · · · · · · · · · · · · · · · ·		



With side panels, plug-in direction 45° to the PCB

(CB scheme

Dimensional drawing 21 (a+7,08) 26,2 3,<u>5</u> (3,54) 12,6 (5,08) 16,5



Type 5.0 mm pitch, color: green SMSTBA 2,5/ 2-G SMSTBA 2,5/ 3-G SMSTBA 2,5/ 4-G SMSTBA 2,5/ 4-G SMSTBA 2,5/ 6-G SMSTBA 2,5/ 6	Ordering data			
SMSTBA 2,5/ 2-G 1769803 50 SMSTBA 2,5/ 3-G 1769816 50 SMSTBA 2,5/ 4-G 1769829 50 SMSTBA 2,5/ 4-G 1769829 50 SMSTBA 2,5/ 5-G 1769832 50 SMSTBA 2,5/ 5-G 1769835 50 SMSTBA 2,5/ 6-G 1769858 50 SMSTBA 2,5/ 8-G 1769861 50 SMSTBA 2,5/ 8-G 1769861 50 SMSTBA 2,5/ 9-G 1769874 50 SMSTBA 2,5/10-G 1769897 50 SMSTBA 2,5/10-G 1769890 50 SMSTBA 2,5/11-G 1769890 50 SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/16-G 1769939 50 SMSTBA 2,5/16-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/ 6-G,5,08 1767371 50 SMSTBA 2,5/ 6-G,5,08 1767397 50 SMSTBA 2,5/ 6-G,5,08 1767397 50 SMSTBA 2,5/ 6-G,5,08 1767407 50 SMSTBA 2,5/ 6-G,5,08 1767410 50 SMSTBA 2,5/ 16-G,5,08 1767436 50 SMSTBA 2,5/ 10-G,5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767481 50 SMSTBA 2,5/11-G-5,08 1767481 50 SMSTBA 2,5/13-G,5,08 1767494 50	Туре	Order No.	Pcs. / Pkt.	
SMSTBA 2,5/ 3-G 1769816 50 SMSTBA 2,5/ 4-G 1769829 50 SMSTBA 2,5/ 6-G 1769832 50 SMSTBA 2,5/ 6-G 1769845 50 SMSTBA 2,5/ 7-G 1769858 50 SMSTBA 2,5/ 8-G 1769861 50 SMSTBA 2,5/ 9-G 1769861 50 SMSTBA 2,5/10-G 1769867 50 SMSTBA 2,5/10-G 1769887 50 SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/15-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 5.08 mm pitch, color: green SMSTBA 2,5/16-G 1769942 50 5.08 mm pitch, color: green SMSTBA 2,5/4-G-5,08 1767371 50 SMSTBA 2,5/4-G-5,08 1767384 50 SMSTBA 2,5/5-G-5,08 1767407 50 SMSTBA 2,5/6-G-5,08 1767407 50 SMSTBA 2,5/6-G-5,08 1767407 50	5.0 mm pitch, color: green			
SMSTBA 2,5/ 4-G 1769829 50 SMSTBA 2,5/ 5-G 1769832 50 SMSTBA 2,5/ 6-G 1769845 50 SMSTBA 2,5/ 6-G 1769858 50 SMSTBA 2,5/ 8-G 1769861 50 SMSTBA 2,5/ 9-G 1769874 50 SMSTBA 2,5/ 10-G 1769874 50 SMSTBA 2,5/ 11-G 1769890 50 SMSTBA 2,5/ 11-G 1769990 50 SMSTBA 2,5/ 13-G 1769913 50 SMSTBA 2,5/ 13-G 1769913 50 SMSTBA 2,5/ 14-G 1769926 50 SMSTBA 2,5/ 15-G 1769939 50 SMSTBA 2,5/ 16-G 1769942 50 SMSTBA 2,5/ 16-G 1767942 50 SMSTBA 2,5/ 16-G-S,08 1767371 50 SMSTBA 2,5/ 4-G-5,08 1767397 50 SMSTBA 2,5/ 4-G-5,08 1767407 <	SMSTBA 2,5/ 2-G	1769803	50	
SMSTBA 2,5/5-G 1769832 50 SMSTBA 2,5/6-G 1769845 50 SMSTBA 2,5/7-G 1769858 50 SMSTBA 2,5/8-G 1769861 50 SMSTBA 2,5/9-G 1769874 50 SMSTBA 2,5/10-G 1769887 50 SMSTBA 2,5/10-G 1769890 50 SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/16-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1767942 50 SMSTBA 2,5/16-G 1767942 50 SMSTBA 2,5/16-G-5,08 1767371 50 SMSTBA 2,5/14-G-5,08 1767397 50 SMSTBA 2,5/5-G-5,08 1767410 50 SMSTBA 2,5/16-G-5,08 1767423 50	SMSTBA 2,5/ 3-G	1769816	50	
SMSTBA 2,5/6-G 1769845 50 SMSTBA 2,5/7-G 1769858 50 SMSTBA 2,5/7-G 1769858 50 SMSTBA 2,5/9-G 1769861 50 SMSTBA 2,5/10-G 1769874 50 SMSTBA 2,5/10-G 1769887 50 SMSTBA 2,5/11-G 1769990 50 SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/16-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G-S,08 1767371 50 SMSTBA 2,5/3-G-5,08 1767384 50 SMSTBA 2,5/3-G-5,08 1767407 50 SMSTBA 2,5/5-G-5,08 1767407 50 SMSTBA 2,5/6-G-5,08 1767407 50 SMSTBA 2,5/7-G-5,08 1767443 50 SMSTBA 2,5/10-G-5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767452	SMSTBA 2,5/ 4-G	1769829	50	
SMSTBA 2,5/7-G 1769858 50 SMSTBA 2,5/8-G 1769861 50 SMSTBA 2,5/9-G 1769874 50 SMSTBA 2,5/10-G 1769887 50 SMSTBA 2,5/11-G 1769890 50 SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/16-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 5.08 mm pitch, color: green SMSTBA 2,5/3-G-5,08 1767371 50 SMSTBA 2,5/3-G-5,08 1767384 50 SMSTBA 2,5/3-G-5,08 1767397 50 SMSTBA 2,5/4-G-5,08 1767407 50 SMSTBA 2,5/6-G-5,08 1767410 50 SMSTBA 2,5/8-G-5,08 1767423 50 SMSTBA 2,5/9-G-5,08 1767436 50 SMSTBA 2,5/10-G-5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 <t< td=""><td>SMSTBA 2,5/ 5-G</td><td>1769832</td><td>50</td></t<>	SMSTBA 2,5/ 5-G	1769832	50	
SMSTBA 2,5/8-G 1769861 50 SMSTBA 2,5/9-G 1769874 50 SMSTBA 2,5/10-G 1769874 50 SMSTBA 2,5/11-G 1769890 50 SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/15-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 5.08 mm pitch, color: green SMSTBA 2,5/16-G 1767947 50 SMSTBA 2,5/2-G-5,08 1767371 50 SMSTBA 2,5/3-G-5,08 1767384 50 SMSTBA 2,5/4-G-5,08 1767397 50 SMSTBA 2,5/4-G-5,08 1767407 50 SMSTBA 2,5/6-G-5,08 1767410 50 SMSTBA 2,5/8-G-5,08 1767436 50 SMSTBA 2,5/10-G-5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767455 50 SMSTBA 2,5/13-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767478 50	SMSTBA 2,5/ 6-G	1769845	50	
SMSTBA 2,5/9-G 1769874 50 SMSTBA 2,5/10-G 1769887 50 SMSTBA 2,5/11-G 176989 50 SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/16-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1767971 50 SMSTBA 2,5/16-G 1767371 50 SMSTBA 2,5/2-G-5,08 1767397 50 SMSTBA 2,5/4-G-5,08 1767407 50 SMSTBA 2,5/5-G-5,08 1767410 50 SMSTBA 2,5/1-G-5,08 1767423 50 SMSTBA 2,5/19-G-5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/13-G-5,08 1767481 <td>SMSTBA 2,5/ 7-G</td> <td>1769858</td> <td>50</td>	SMSTBA 2,5/ 7-G	1769858	50	
SMSTBA 2,5/10-G 1769887 50 SMSTBA 2,5/11-G 1769890 50 SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769901 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/14-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1767942 50 SMSTBA 2,5/1-G-5,08 1767371 50 SMSTBA 2,5/2-G-5,08 1767384 50 SMSTBA 2,5/3-G-5,08 1767407 50 SMSTBA 2,5/5-G-5,08 1767410 50 SMSTBA 2,5/7-G-5,08 1767407 50 SMSTBA 2,5/3-G-5,08 1767436 50 SMSTBA 2,5/10-G-5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/11-G-5,08 1767481 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/13-G-5,08	SMSTBA 2,5/ 8-G	1769861	50	
SMSTBA 2,5/11-G 1769890 50 SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/15-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 5.08 mm pitch, color: green 50 1767371 50 SMSTBA 2,5/ 3-G-5,08 1767384 50 50 50 SMSTBA 2,5/ 4-G-5,08 1767397 50	SMSTBA 2,5/ 9-G	1769874	50	
SMSTBA 2,5/12-G 1769900 50 SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/16-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 5.08 mm pitch, color: green 50 50 SMSTBA 2,5/3-G-5,08 1767371 50 SMSTBA 2,5/3-G-5,08 1767384 50 SMSTBA 2,5/3-G-5,08 1767407 50 SMSTBA 2,5/3-G-5,08 1767407 50 SMSTBA 2,5/3-G-5,08 1767410 50 SMSTBA 2,5/3-G-5,08 1767423 50 SMSTBA 2,5/3-G-5,08 1767436 50 SMSTBA 2,5/10-G-5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767452 50 SMSTBA 2,5/13-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/14	SMSTBA 2,5/10-G	1769887	50	
SMSTBA 2,5/13-G 1769913 50 SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/15-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 5.08 mm pitch, color: green 50 1767371 50 SMSTBA 2,5/ 2-G-5,08 1767384 50 SMSTBA 2,5/ 4-G-5,08 1767397 50 SMSTBA 2,5/ 5-G-5,08 1767407 50 SMSTBA 2,5/ 6-G-5,08 1767407 50 SMSTBA 2,5/ 6-G-5,08 1767410 50 SMSTBA 2,5/ 7-G-5,08 1767423 50 SMSTBA 2,5/ 9-G-5,08 1767436 50 SMSTBA 2,5/ 9-G-5,08 1767449 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/13-G-5,08 1767494 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767494 50	SMSTBA 2,5/11-G	1769890	50	
SMSTBA 2,5/14-G 1769926 50 SMSTBA 2,5/15-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1769942 50 SMSTBA 2,5/16-G 1767371 50 SMSTBA 2,5/2-G-5,08 1767384 50 SMSTBA 2,5/3-G-5,08 1767397 50 SMSTBA 2,5/5-G-5,08 1767407 50 SMSTBA 2,5/5-G-5,08 1767410 50 SMSTBA 2,5/7-G-5,08 1767423 50 SMSTBA 2,5/9-G-5,08 1767436 50 SMSTBA 2,5/10-G-5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/13-G-5,08 1767494 50 SMSTBA 2,5/13-G-5,08 1767494 50 SMSTBA 2,5/13-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/12-G	1769900	50	
SMSTBA 2,5/15-G 1769939 50 SMSTBA 2,5/16-G 1769942 50 5.08 mm pitch, color: green 50 1767371 50 SMSTBA 2,5/ 2-G-5,08 1767384 50 SMSTBA 2,5/ 3-G-5,08 1767397 50 SMSTBA 2,5/ 4-G-5,08 1767407 50 SMSTBA 2,5/ 5-G-5,08 1767407 50 SMSTBA 2,5/ 7-G-5,08 1767423 50 SMSTBA 2,5/ 7-G-5,08 1767423 50 SMSTBA 2,5/ 8-G-5,08 1767436 50 SMSTBA 2,5/ 9-G-5,08 1767449 50 SMSTBA 2,5/11-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/13-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/13-G	1769913	50	
SMSTBA 2,5/16-G 1769942 50 5.08 mm pitch, color: green 50 SMSTBA 2,5/2-G-5,08 1767371 50 SMSTBA 2,5/3-G-5,08 1767384 50 SMSTBA 2,5/3-G-5,08 1767397 50 SMSTBA 2,5/5-G-5,08 1767407 50 SMSTBA 2,5/6-G-5,08 1767410 50 SMSTBA 2,5/6-G-5,08 1767423 50 SMSTBA 2,5/6-G-5,08 1767436 50 SMSTBA 2,5/6-G-5,08 1767449 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/14-G	1769926	50	
5.08 mm pitch, color: green SMSTBA 2,5/ 2-G-5,08 1767384 50 SMSTBA 2,5/ 3-G-5,08 1767384 50 SMSTBA 2,5/ 3-G-5,08 1767397 50 SMSTBA 2,5/ 5-G-5,08 1767407 50 SMSTBA 2,5/ 6-G-5,08 1767410 50 SMSTBA 2,5/ 7-G-5,08 1767423 50 SMSTBA 2,5/ 8-G-5,08 1767436 50 SMSTBA 2,5/ 9-G-5,08 1767436 50 SMSTBA 2,5/ 9-G-5,08 1767459 50 SMSTBA 2,5/10-G-5,08 1767459 50 SMSTBA 2,5/13-G-5,08 1767459 50 SMSTBA 2,5/13-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767494 50 SMSTBA 2,5/13-G-5,08 1767494 50 SMSTBA 2,5/13-G-5,08 1767494 50 SMSTBA 2,5/13-G-5,08 1767494 50	SMSTBA 2,5/15-G	1769939	50	
SMSTBA 2,5/2-G-5,08 1767371 50 SMSTBA 2,5/3-G-5,08 1767384 50 SMSTBA 2,5/4-G-5,08 1767397 50 SMSTBA 2,5/5-G-5,08 1767407 50 SMSTBA 2,5/6-G-5,08 1767410 50 SMSTBA 2,5/7-G-5,08 1767423 50 SMSTBA 2,5/9-G-5,08 1767436 50 SMSTBA 2,5/9-G-5,08 176749 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767478 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/16-G	1769942	50	
SMSTBA 2,5/ 3-G-5,08 1767384 50 SMSTBA 2,5/ 4-G-5,08 1767397 50 SMSTBA 2,5/ 5-G-5,08 1767407 50 SMSTBA 2,5/ 6-G-5,08 1767410 50 SMSTBA 2,5/ 7-G-5,08 1767423 50 SMSTBA 2,5/ 8-G-5,08 1767436 50 SMSTBA 2,5/ 9-G-5,08 1767449 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/12-G-5,08 176748 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	5.08 mm pitch, color: green			
SMSTBA 2,5/ 4-G-5,08 1767397 50 SMSTBA 2,5/ 5-G-5,08 1767407 50 SMSTBA 2,5/ 6-G-5,08 1767410 50 SMSTBA 2,5/ 7-G-5,08 1767423 50 SMSTBA 2,5/ 8-G-5,08 1767436 50 SMSTBA 2,5/ 9-G-5,08 1767449 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/13-G-5,08 1767494 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/ 2-G-5,08	1767371	50	
SMSTBA 2,5/5-G-5,08 1767407 50 SMSTBA 2,5/6-G-5,08 1767410 50 SMSTBA 2,5/7-G-5,08 1767423 50 SMSTBA 2,5/8-G-5,08 1767436 50 SMSTBA 2,5/9-G-5,08 1767449 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/12-G-5,08 1767478 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/ 3-G-5,08	1767384	50	
SMSTBA 2,5/6-G-5,08 1767410 50 SMSTBA 2,5/7-G-5,08 1767423 50 SMSTBA 2,5/8-G-5,08 1767436 50 SMSTBA 2,5/9-G-5,08 1767449 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/12-G-5,08 1767478 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/ 4-G-5,08	1767397	50	
SMSTBA 2,5/7-G-5,08 1767423 50 SMSTBA 2,5/8-G-5,08 1767436 50 SMSTBA 2,5/9-G-5,08 1767449 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/12-G-5,08 1767478 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/ 5-G-5,08	1767407	50	
SMSTBA 2,5/8-G-5,08 1767436 50 SMSTBA 2,5/9-G-5,08 1767449 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/12-G-5,08 1767478 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/ 6-G-5,08	1767410	50	
SMSTBA 2,5/9-G-5,08 1767449 50 SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/12-G-5,08 1767478 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/ 7-G-5,08	1767423	50	
SMSTBA 2,5/10-G-5,08 1767452 50 SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/12-G-5,08 1767478 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/ 8-G-5,08	1767436	50	
SMSTBA 2,5/11-G-5,08 1767465 50 SMSTBA 2,5/12-G-5,08 1767478 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/ 9-G-5,08	1767449	50	
SMSTBA 2,5/12-G-5,08 1767478 50 SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/10-G-5,08	1767452	50	
SMSTBA 2,5/13-G-5,08 1767481 50 SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/11-G-5,08	1767465	50	
SMSTBA 2,5/14-G-5,08 1767494 50 SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/12-G-5,08	1767478	50	
SMSTBA 2,5/15-G-5,08 1767504 50	SMSTBA 2,5/13-G-5,08	1767481	50	
· · · ·	SMSTBA 2,5/14-G-5,08	1767494	50	
SMSTBA 2,5/16-G-5,08 1767517 50	SMSTBA 2,5/15-G-5,08	1767504	50	
	SMSTBA 2,5/16-G-5,08	1767517	50	

Orthogonal headers for wave soldering processes



- Space-saving header
- Header perpendicular (orthogonal) to the PCB

MSTBO 2,5/...-GL

- The PCB is to the left of the header

MSTBO 2,5/...-GR

- The PCB is to the right of the header

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.



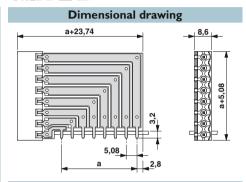
Pin strip leading off at a right angle "PCB on the left"

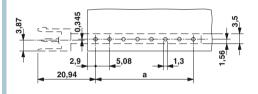
€ .**\$1** us € CB.

Accessories		
For all types	Туре	Page
*	Coding section CR-MSTB Order No. 1734401	38
	Coding tab MSTB-BL Order No. 1755477	837

No. of pos.

[mm] 10.16 15.24 20.32 25.40 30 48 35.56





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
·	

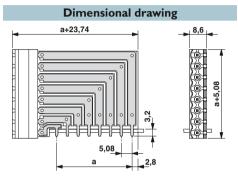
	8		
	320		
	5.08		
	5.00		
III/3	III/2	11/2	
250	320	630	
4	4	4	
В	С	D	
250	-	300	
8	-	8	
-	-	-	
В	С	D	
300	-	300	
6.5	-	6.5	
-	-	-	
PA/I			
V0			
1.3	/ 1,2 x 0,32	mm	

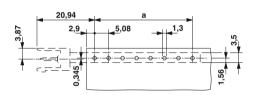
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
MSTBO 2,5/ 3-GL-5,08	1850440	50	
MSTBO 2,5/ 4-GL-5,08	1850453	50	
MSTBO 2,5/ 5-GL-5,08	1850466	50	
MSTBO 2,5/ 6-GL-5,08	1850479	50	
MSTBO 2,5/ 7-GL-5,08	1850482	50	
MSTBO 2,5/ 8-GL-5,08	1850495	50	



Pin strip leading off at a right angle "PCB on the right"







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
MSTBO 2,5/ 3-GR-5,08	1847110	50		
MSTBO 2,5/ 4-GR-5,08	1847123	50		
MSTBO 2,5/ 5-GR-5,08	1847136	50		
MSTBO 2,5/ 6-GR-5,08	1847149	50		
MSTBO 2,5/ 7-GR-5,08	1847152	50		
MSTBO 2,5/ 8-GR-5,08	1847165	50		

Orthogonal headers for wave soldering processes



- Header for ME/ME MAX electronic housing
- Plug-in direction orthogonal to the PCB
- "Lef"t and "right" design
- Number of positions between 2 and 4
- Pitch 5 mm
- Connection cross section of up 2.5 mm²

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

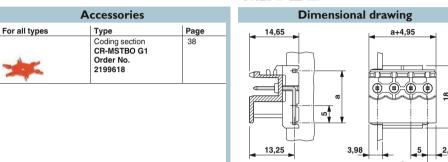
COMBICON select

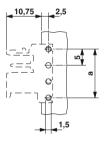
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.



Pin strip leading off at a right angle "left", color: green

€ .**\$1** us € CB.





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	12	
	320	
	5	
III/3	III/2	II / 2
250	320	400
4	4	4
В	С	D
300	-	300
12	-	10
-	-	-
В	С	D
300	-	300
10	-	10
-	-	-
	PA/I	
	V0	
	1.4/1x1m	m

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
2	5.00
3	10.00
4	15.00

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
COMBICON header, 5 mm pitch, color: green				
MSTBO 2,5/ 2-G1L	1861057	50		
MSTBO 2,5/ 3-G1L	1861028	50		
MSTBO 2,5/ 4-G1L	1861060	50		



Pin strip leading off at a right angle "right", color: green

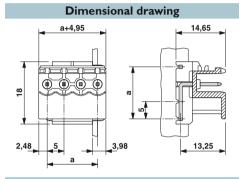


Pin strip leading off at a right angle "left", color: gray

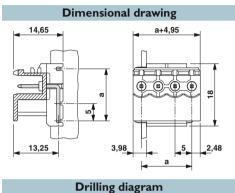


Pin strip leading off at a right angle "right", color: gray

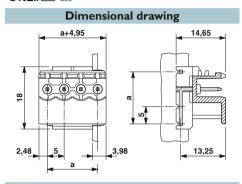
(P. SAL) us (C. Angle C.B.



CB scheme



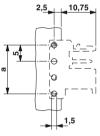
CB scheme



Drilling diagram



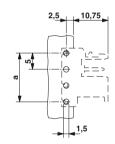
Drilling diagram





10,75	_2,5
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	Orderin	ng dat	ta	
Туре			Order No.	Pcs. / Pkt.
OOMBIOON Is a select	F		Umba	
COMBICON header	, 5 mm pitch	i, color:	light gray	
MSTBO 2,5/ 2-G1L I	KMGY		2854788	50
MSTBO 2,5/ 3-G1L I	KMGY		2853750	50
MSTBO 2,5/ 4-G1L I	KMGY		2907774	50



Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
COMBICON header, right, 5 mm pitch,	color: light gr	ay
MSTBO 2,5/ 2-G1R KMGY	2854791	50
MSTBO 2,5/ 3-G1R KMGY	2853763	50
MSTBO 2,5/ 4-G1R KMGY	2907787	50

Orthogonal headers for wave soldering processes



- Header and plug for ME and ME MAX electronic housings
- Touch proof
- Plug-in direction orthogonal to the PCB
- Design version "left" and "right"
- Number of positions between 2 and 4
- Pitch 5 mm
- Connection cross section of up 2.5 mm²

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

1) Please observe the derating curves. Derating curves of further combination options on request.

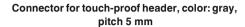
	Accessories	
For all types	Туре	Page
	Marker cards SK 5/3,8	798
Only for MSTBO 2,5		
*	Coding section CR-MSTBO G1 Order No. 2199618	38

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [m	m ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the	e same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material gr	roup
Inflammability class according to UL 94	

	MSTBT 2,	5 HC/ST	P GY7035	MSTBO 2	,5/G1PI	R GY7035	MSTBO 2	,5/G1P	L GY7035
		161) / 2.5			16			16	
		320			320			320	
		5			5			5	
_	0.2 - 2.5	5 / 0.2 - 2.5		-	-/-/-			-/-/-	
		0.25 - 2.5		-	-			-	
		0.25 - 2.5			-			-	
					,			,	
	0.2	2-1/0.2-	1.5		-/-			-/-	
_		0.25 - 1			-	_		-	
		0.5 - 1.5			-			-	
	III / O	III / O	11/2	III / O	III/2	II/2	III/3	III/2	11/2
-	250	III / 2 320	630	III / 3 250	320	400	250	320	400
-	4	4	4	4	4	400	4	4	400
	В	C	D	В	C	D	В	C	D
	300	-	300	300	-	300	300	-	300
-	16		15	15		15	15		15
-	30 - 12	-	30 - 12	- 10	-	-	- 13	-	-
	B	С	D	В	С	D	В	С	D
	-	-	-	-	-		-	-	
-			-		-	-		-	
_		-	-	-	-	-		-	-
		7			-			-	
		М3			-	-		-	
		0.5 - 0.6			-	-		-	
_		PA/I			PA/I			PA/I	
_		V0			V0			V0	
							-		

No. of pos	Dim. a [mm]
2	5.00
3	10.00
4	15.00







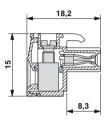
Touch-proof, with "right" pin strip leading off at a right angle, color: gray

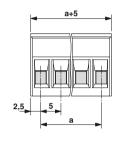


Touch-proof, with "left" pin strip leading off at a right angle, color: gray

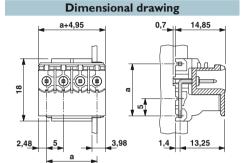
c**91** us

Dimensional drawing

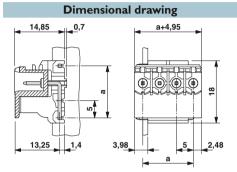




PLus 🕑

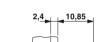


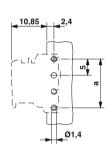
PLus 🕝



Drilling diagram

Drilling diagram





↑ w.↑	——————————————————————————————————————
a	
	Ø1,4

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
COMBICON screw connector, pitch 5 n header, color: gray	nm, for touch-	proof
MSTBT 2,5 HC/ 2-STP GY7035	2200334	50
MSTBT 2,5 HC/ 3-STP GY7035	2200333	50

MSTBT 2,5 HC/ 4-STP GY7035

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
COMBICON header,, pitch 5 mm, touch	n-proof, color:	light gray
MSTBO 2 5/ 2-G1PR GY7035	2200331	50

2200329

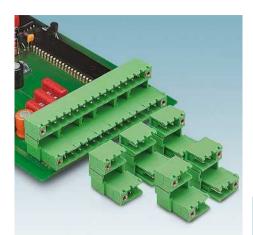
50

MSTBO 2,5/ 3-G1PR GY7035

MSTBO 2,5/ 4-G1PR GY7035

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
COMBICON header,, pitch 5 mm, touch	-proof, color:	light gray
MSTBO 2,5/ 2-G1PL GY7035	2200330	50
MSTBO 2,5/ 3-G1PL GY7035	2200328	50
MSTBO 2,5/ 4-G1PL GY7035	2200325	50

Double-level header for the wave soldering processes



- Double-level header with offset levels
- Plug-in direction parallel to the PCB
- Improved view and accessibility to the lower level
- High contact density
- Versions with and without side panel, as well as with and without screw flange
- Ejectors as an add-on for high-pos. connectors must be mounted on the left and the right side
- Versions with right and left side panel and higher numbers of positions up to 20-pos. can be found at:

www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

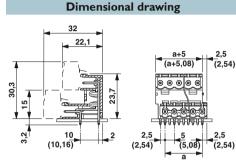
COMBICON select

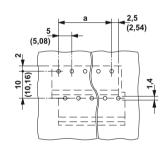
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.



Without side panels, with offset levels, plug-in direction parallel to the PCB

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For all types	Туре	Page
	Marker cards SK 5/3,8 or SK 5,08/3,8	798
*	Coding section CR-MSTB Order No. 1734401	38
	Coding tab MSTB-BL Order No. 1755477	837
Only for MDSTB 2,5		r
1	Side element for MDSTB(V); width 2.54 mm MDSTB-SE Order No. 1786679	
1	Ejectors for high-pos. plugs MDSTB 2,5-AS Order No. 1806588	

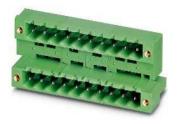
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	10		
	320		
	5/5.08		
III/3	III/2	II / 2	
250	320	400	
4	4	4	
В	С	D	
300	-	300	
15	-	15	
-	-	-	
В	С	D	
300	-	300	
10	-	10	
-	-	-	
	PBT / Illa		
	V0		
1.4 / 1 x 1 mm			

		Ordering date	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	MDSTB 2,5/ 2-G	1762046	50
3	10.00	MDSTB 2,5/ 3-G	1762059	50
4	20.00	MDSTB 2,5/ 4-G	1846386	50
5	20.00	MDSTB 2,5/ 5-G	1837133	50
6	25.00	MDSTB 2,5/ 6-G	1846409	50
7	30.00	MDSTB 2,5/ 7-G	1846412	50
8	35.00	MDSTB 2,5/ 8-G	1846425	50
9	40.00	MDSTB 2,5/ 9-G	1846438	50
10	45.00	MDSTB 2,5/10-G	1846441	50
11	50.00	MDSTB 2,5/11-G	1846454	50
12	55.00	MDSTB 2,5/12-G	1846467	50
		5.08 mm pitch, color: green		
2	5.08	MDSTB 2,5/ 2-G-5,08	1762062	50
3	10.16	MDSTB 2,5/ 3-G-5,08	1762075	50
4	15.24	MDSTB 2,5/ 4-G-5,08	1842539	50
5	20.32	MDSTB 2,5/ 5-G-5,08	1842542	50
6	25.40	MDSTB 2,5/ 6-G-5,08	1844977	50
7	30.48	MDSTB 2,5/ 7-G-5,08	1842568	50
8	35.56	MDSTB 2,5/ 8-G-5,08	1840052	50
9	40.64	MDSTB 2,5/ 9-G-5,08	1842584	50
10	45.72	MDSTB 2,5/10-G-5,08	1842597	50
11	50.80	MDSTB 2,5/11-G-5,08	1842607	50
12	55.88	MDSTB 2,5/12-G-5,08	1842610	50

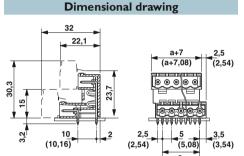


With side panels and offset levels, plug-in direction parallel to the PCB

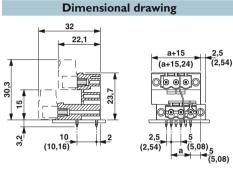


With threaded flange and offset levels, plug-in direction parallel to the PCB

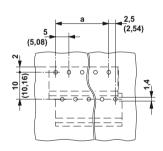
CB US CB

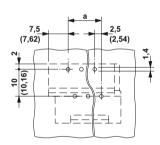


CB Scheme



Drilling diagram

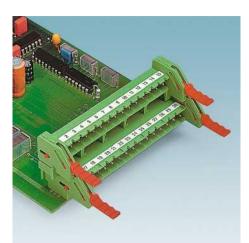




Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MDSTBA 2,5/ 2-G	1846519	50	
MDSTBA 2,5/ 3-G	1846522	50	
MDSTBA 2,5/ 4-G	1846535	50	
MDSTBA 2,5/ 5-G	1846548	50	
MDSTBA 2,5/ 6-G	1846551	50	
MDSTBA 2,5/ 7-G	1846564	50	
MDSTBA 2,5/ 8-G	1846577	50	
MDSTBA 2,5/ 9-G	1846580	50	
MDSTBA 2,5/10-G	1846593	50	
MDSTBA 2,5/11-G	1846603	50	
MDSTBA 2,5/12-G	1846616	50	
5.08 mm pitch, color: green			
MDSTBA 2,5/ 2-G-5,08	1842063	50	
MDSTBA 2,5/ 3-G-5,08	1842076	50	
MDSTBA 2,5/ 4-G-5,08	1842089	50	
MDSTBA 2,5/ 5-G-5,08	1842092	50	
MDSTBA 2,5/ 6-G-5,08	1842102	50	
MDSTBA 2,5/ 7-G-5,08	1842115	50	
MDSTBA 2,5/ 8-G-5,08	1842128	50	
MDSTBA 2,5/ 9-G-5,08	1842131	50	
MDSTBA 2,5/10-G-5,08	1842144	50	
MDSTBA 2,5/11-G-5,08	1842157	50	
MDSTBA 2,5/12-G-5,08	1842160	50	

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.0 mm pitch, color: green					
MDSTB 2,5/ 2-GF	1846690	50			
MDSTB 2,5/ 3-GF	1846700	50			
MDSTB 2,5/ 4-GF	1846713	50			
MDSTB 2,5/ 5-GF	1846726	50			
MDSTB 2,5/ 6-GF	1846739	50			
MDSTB 2,5/ 7-GF	1846742	50			
MDSTB 2,5/ 8-GF	1846755	50			
MDSTB 2,5/ 9-GF	1846768	50			
MDSTB 2,5/10-GF	1846771	50			
MDSTB 2,5/11-GF	1846784	50			
MDSTB 2,5/12-GF	1846797	50			
5.08 mm pitch, color: green					
MDSTB 2,5/ 2-GF-5,08	1842364	50			
MDSTB 2,5/ 3-GF-5,08	1842377	50			
MDSTB 2,5/ 4-GF-5,08	1842380	50			
MDSTB 2,5/ 5-GF-5,08	1842393	50			
MDSTB 2,5/ 6-GF-5,08	1842403	50			
MDSTB 2,5/ 7-GF-5,08	1842416	50			
MDSTB 2,5/ 8-GF-5,08	1842429	50			
MDSTB 2,5/ 9-GF-5,08	1842432	50			
MDSTB 2,5/10-GF-5,08	1842445	50			
MDSTB 2,5/11-GF-5,08	1842458	50			
MDSTB 2,5/12-GF-5,08	1842461	50			

Double-level header for the wave soldering processes



- MDSTBW 2,5/...-G with stand-off
- Ejectors as an add-on for high-pos. connectors must be mounted on the left and the right side
- G1-types without a level offset, for flush installation in the front of the devices
- Horizontal and vertical design
- Higher numbers of positions up to 20-pos. can be found at: www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON PLUG-IN connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

	Accessories	
For all types	Туре	Page
w ./	Marker cards SK 5/3,8 or SK 5,08/3,8	798
*	Coding section CR-MSTB Order No. 1734401	38
	Coding tab MSTB-BL Order No. 1755477	837
Only for MDSTBW	2,5/G	
1	Ejectors MDSTBW 2,5-AS Order No. 1767766	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MDS	STBW 2,5/ .	G	MD	STB 2,5/	-G1	MI	DSTBV 2,5/.	G1
	40			40			40	
	10			10			10	
	320			320			320	
	5 / 5.08			5 / 5.08			5 / 5.08	
III/3	III/2	II / 2	III/3	III/2	11/2	III/3	III/2	11/2
250	320	400	250	320	630	250	320	630
4	4	4	4	4	4	4	4	4
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300	300	-	300
15	-	15	15	-	15	12	-	12
-	-	-	-	-	-	-	-	-
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300	300	-	300
10	-	10	10	-	10	10	-	10
-	-	-	-	-	-	-	-	-
	PBT / Illa		PA/I PA/I					
	V0			V0			V0	
1	.4 / 1 x 1 mi	m	1	.4 / 1 x 1 mi	m		1.4 / 1 x 1 m	m
			·	·		-		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
. 8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
10	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
4.4	66.04
14	71.12
15	/ 1.12

CLASSIC COMBICON PLUG-IN connectors, pitches 5.0 or 5.08 mm



With stand-off, without side panels, with offset levels, plug-in direction parallel to the PCB



With side panels, without offset levels, plug-in direction parallel to the PCB



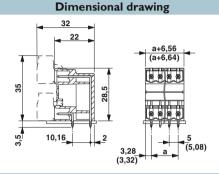
With side panels, without offset levels, plug-in direction vertical to the PCB

© c¶ us PC de CB

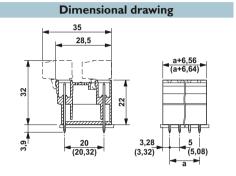
Dimensional drawing

32
22,1
(a+5,08)
(2,54)
(2,54)
(10,16)
(2,54)
(2,54)

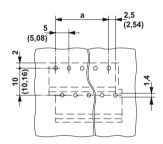
(F) LUS PC LOS CB



(F) CB



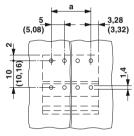
Drilling diagram



Ordering data

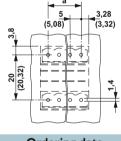
Туре Order No. Pcs. / Pkt. 5.0 mm pitch, color: green MDSTBW 2,5/2-G 1802443 50 MDSTBW 2,5/3-G 1802427 50 MDSTBW 2,5/4-G 1846836 50 MDSTBW 2.5/ 5-G 1846849 50 MDSTBW 2.5/ 6-G 1846852 50 MDSTBW 2,5/7-G 1846865 50 MDSTBW 2,5/8-G 1846878 50 MDSTBW 2.5/9-G 1846881 50 MDSTBW 2,5/10-G 1846894 50 MDSTBW 2,5/11-G 1846904 50 MDSTBW 2,5/12-G 1846917 50 5.08 mm pitch, color: green MDSTBW 2,5/2-G-5,08 1802430 50 MDSTBW 2,5/ 3-G-5,08 1802414 50 MDSTBW 2,5/ 4-G-5,08 1842238 50 MDSTBW 2,5/ 5-G-5,08 1840010 MDSTBW 2,5/ 6-G-5,08 1842254 MDSTBW 2,5/7-G-5,08 1842267 50 MDSTBW 2,5/8-G-5,08 1842270 50 MDSTBW 2,5/ 9-G-5,08 1842283 50 MDSTBW 2,5/10-G-5,08 1842296 50 MDSTBW 2,5/11-G-5,08 1842306 50 MDSTBW 2,5/12-G-5,08 1842319 50

Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
MDSTB 2,5/ 3-G1	1736687	50		
MDSTB 2,5/ 4-G1	1736690	50		
MDSTB 2,5/ 6-G1	1762732	50		
MDSTB 2,5/ 7-G1	1762745	50		
MDSTB 2,5/ 8-G1	1762758	50		
MDSTB 2,5/ 9-G1	1762761	50		
MDSTB 2,5/10-G1	1762774	50		
MDSTB 2,5/11-G1	1762787	50		
MDSTB 2,5/12-G1	1762790	50		
MDSTB 2,5/13-G1	1762800	50		
MDSTB 2,5/14-G1	1762813	50		
MDSTB 2,5/15-G1	1762826	50		
MDSTB 2,5/16-G1	1762839	50		
5.08 mm pitch, color: green				
MDSTB 2,5/ 3-G1-5,08	1762376	50		
MDSTB 2,5/ 4-G1-5,08	1736713	50		
MDSTB 2,5/ 5-G1-5,08	1938951	50		
MDSTB 2,5/ 6-G1-5,08	1762415	50		
MDSTB 2,5/ 7-G1-5,08	1762428	50		
MDSTB 2,5/ 8-G1-5,08	1762431	50		
MDSTB 2,5/ 9-G1-5,08	1762444	50		
MDSTB 2,5/10-G1-5,08	1762457	50		
MDSTB 2,5/11-G1-5,08	1762460	50		
MDSTB 2,5/12-G1-5,08	1762703	50		
MDSTB 2,5/13-G1-5,08	1762473	50		
MDSTB 2,5/14-G1-5,08	1762486	50		
MDSTB 2,5/15-G1-5,08	1762499	50		

Drilling diagram



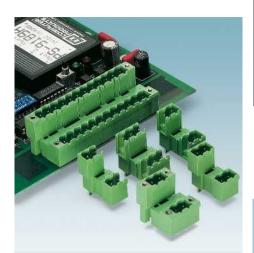
Type	ing data Order No.	Pcs. / F
5.0 mm pitch, color: green	Oraci ito.	. 55.71
ore mini prion, colon groon		
MDSTBV 2,5/ 3-G1	1736726	50
MDSTBV 2,5/ 4-G1	1736739	50
MOOTOVOSIOOA	4700004	
MDSTBV 2,5/ 6-G1	1762884	50
MDSTBV 2,5/ 7-G1	1762897	50
MDSTBV 2,5/ 8-G1	1762907	50
MDSTBV 2,5/ 9-G1	1762910	50
MDSTBV 2,5/10-G1	1762923	50
MDSTBV 2,5/11-G1	1762936	50
MDSTBV 2,5/12-G1	1762949	50
MDSTBV 2,5/13-G1	1762952	50
MDSTBV 2,5/14-G1	1762965	50
MDSTBV 2,5/15-G1 MDSTBV 2,5/16-G1	1762978 1762981	50 50
	1/02901	50
5.08 mm pitch, color: green		
MDSTBV 2,5/ 3-G1-5,08	1736742	50
MDSTBV 2,5/ 4-G1-5,08	1736755	50
MDSTBV 2,5/ 6-G1-5,08	1762541	50
MDSTBV 2,5/ 7-G1-5,08	1762554	50
MDSTBV 2,5/ 8-G1-5,08	1762567	50
MDSTBV 2,5/ 9-G1-5,08	1762570	50
MDSTBV 2,5/10-G1-5,08	1762583	50
MDSTBV 2,5/11-G1-5,08	1762596	50
MDSTBV 2,5/12-G1-5,08	1762606	50
MDSTBV 2,5/13-G1-5,08	1762619	50
MDSTBV 2,5/14-G1-5,08	1762622	50
MDSTBV 2,5/15-G1-5,08	1762635	50
MDSTBV 2,5/16-G1-5,08	1762648	50

1762509

50

MDSTB 2,5/16-G1-5,08

Double-level header for the wave soldering processes



- Double-level header with offset levels
- Plug-in direction vertical to the PCB
- Improved view and accessibility to the lower level
- High contact density
- Versions with and without side panel, as well as with and without screw flange
- For versions with side panel on the right or left, visit:

www.phoenixcontact.net/products

Notes:

In accordance with DIN EN 61984, COMBICON PLUG-IN connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

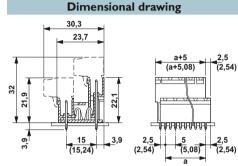
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

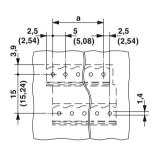
Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.



Without side panels, with offset levels, plug-in direction vertical to the PCB

€ .**\$1** us € CB.





Α	ccessories	
For all types	Туре	Page
. /	Marker cards SK 5/3,8 or SK 5,08/3,8	798
*	Coding section CR-MSTB Order No. 1734401	38
	Coding tab MSTB-BL Order No. 1755477	837
Only for MDSTBV 2,5/	-G	
1	Side element for MD- STB(V); width 2.54 mm MDSTB-SE Order No. 1786679	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	40	
	10	
	320	
	5 / 5.08	
III/3	III/2	II / 2
250	320	400
4	4	4
В	С	D
300	-	300
12	-	12
-	-	-
В	С	D
300	-	300
10	-	10
-	-	-
	PBT / Illa	
	V0	
1	.4 / 1 x 1 mr	m

		Ty
No. of pos.	Dim. a [mm]	5.
2	5.00	M
3	10.00	M
4	15.00	M
5	20.00	M
6	25.00	M
7	30.00	M
8	35.00	M
9	40.00	M
10	45.00	M
11	50.00	M
12	55.00	M
		5.
2	5.08	M
3	10.16	M
4	15.24	M
5	20.32	M
6	25.40	M
7	30.48	M
8	35.56	M
9	40.64	M
10	45.72	M
11	50.80	M
12	55.88	M

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MDSTBV 2,5/ 2-G	1763032	50	
MDSTBV 2,5/ 3-G	1763045	50	
MDSTBV 2,5/ 4-G	1845950	50	
MDSTBV 2,5/ 5-G	1845963	50	
MDSTBV 2,5/ 6-G	1845976	50	
MDSTBV 2,5/ 7-G	1845989	50	
MDSTBV 2,5/ 8-G	1845992	50	
MDSTBV 2,5/ 9-G	1846001	50	
MDSTBV 2,5/10-G	1846014	50	
MDSTBV 2,5/11-G	1846027	50	
MDSTBV 2,5/12-G	1846030	50	
5.08 mm pitch, color: green			
MDSTBV 2,5/ 2-G-5,08	1763074	50	
MDSTBV 2,5/ 3-G-5,08	1763087	50	
MDSTBV 2,5/ 4-G-5,08	1845507	50	
MDSTBV 2,5/ 5-G-5,08	1762004	50	
MDSTBV 2,5/ 6-G-5,08	1845523	50	
MDSTBV 2,5/ 7-G-5,08	1845536	50	
MDSTBV 2,5/ 8-G-5,08	1845549	50	
MDSTBV 2,5/ 9-G-5,08	1845552	50	
MDSTBV 2,5/10-G-5,08	1845565	50	
MDSTBV 2,5/11-G-5,08	1845578	50	
MDSTBV 2,5/12-G-5,08	1845581	50	

CLASSIC COMBICON PLUG-IN connectors, pitches 5.0 or 5.08 mm

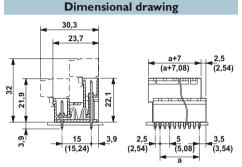


With side panels and offset levels, plug-in direction vertical to the PCB

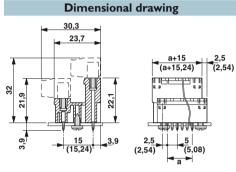


With threaded flange and offset levels, plug-in direction vertical to the PCB

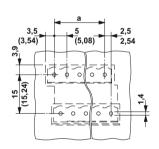
calus @ 🕰 CB



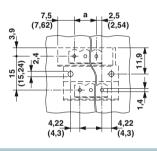
CB Scheme



Drilling diagram



Drilling diagram



Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTBVA 2,5/ 2-G	1845785	50
MDSTBVA 2,5/ 3-G	1845798	50
MDSTBVA 2,5/ 4-G	1845808	50
MDSTBVA 2,5/ 5-G	1845811	50
MDSTBVA 2,5/ 6-G	1845824	50
MDSTBVA 2,5/ 7-G	1845837	50
MDSTBVA 2,5/ 8-G	1845840	50
MDSTBVA 2,5/ 9-G	1845853	50
MDSTBVA 2,5/10-G	1845866	50
MDSTBVA 2,5/11-G	1845879	50
MDSTBVA 2,5/12-G	1845882	50
5.08 mm pitch, color: green		
MDSTBVA 2,5/ 2-G-5,08	1845332	50
MDSTBVA 2,5/ 3-G-5,08	1845345	50
MDSTBVA 2,5/ 4-G-5,08	1845358	50
MDSTBVA 2,5/ 5-G-5,08	1845361	50
MDSTBVA 2,5/ 6-G-5,08	1845374	50
MDSTBVA 2,5/ 7-G-5,08	1845387	50
MDSTBVA 2,5/ 8-G-5,08	1845390	50
MDSTBVA 2,5/ 9-G-5,08	1845400	50
MDSTBVA 2,5/10-G-5,08	1845413	50
MDSTBVA 2,5/11-G-5,08	1845426	50
MDSTBVA 2.5/12-G-5.08	1845439	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MDSTBV 2,5/ 2-GF	1846085	50	
MDSTBV 2,5/ 3-GF	1846098	50	
MDSTBV 2,5/ 4-GF	1846108	50	
MDSTBV 2,5/ 5-GF	1846111	50	
MDSTBV 2,5/ 6-GF	1846124	50	
MDSTBV 2,5/ 7-GF	1846137	50	
MDSTBV 2,5/ 8-GF	1846140	50	
MDSTBV 2,5/ 9-GF	1846153	50	
MDSTBV 2,5/10-GF	1846166	50	
MDSTBV 2,5/11-GF	1846179	50	
MDSTBV 2,5/12-GF	1846182	50	
5.08 mm pitch, color: green			
MDSTBV 2,5/ 2-GF-5,08	1845633	50	
MDSTBV 2,5/ 3-GF-5,08	1845646	50	
MDSTBV 2,5/ 4-GF-5,08	1845659	50	
MDSTBV 2,5/ 5-GF-5,08	1845662	50	
MDSTBV 2,5/ 6-GF-5,08	1845675	50	
MDSTBV 2,5/ 7-GF-5,08	1845688	50	
MDSTBV 2,5/ 8-GF-5,08	1845691	50	
MDSTBV 2,5/ 9-GF-5,08	1845701	50	
MDSTBV 2,5/10-GF-5,08	1845714	50	
MDSTBV 2,5/11-GF-5,08	1845727	50	
MDSTBV 2,5/12-GF-5,08	1845730	50	

Inverted header for the wave soldering processes



- Use in contact protected applications
- Horizontal and vertical design
- Versions with and without a threaded flange
- Pairs of guide rails can be used as a 90° board to board connection
- Combination with MSTB 2,5 headers for primary/secondary/PCB connection
- Clear separation of PCB inputs/outputs
- Higher numbers of positions up to 24-pos. can be found at:

www.phoenixcontact.net/products

- For various combination options with the MSTB 2,5 plug-in system, refer to page 34

Notes:

In accordance with DIN EN 61984, COMBICON PLUG-IN connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The inverted contact system is explained on page 34

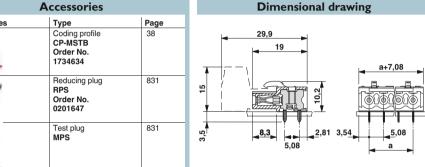
Dimensional drawing of FLRP-ICV and PCB cutout can be found

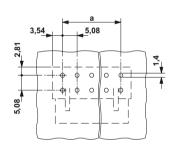
Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.



Plug-in direction parallel to the PCB

€ .**\$1** us € CB.





Accessories			
For all types	Туре	Page	
*	Coding profile CP-MSTB Order No. 1734634	38	
Sel.	Reducing plug RPS Order No. 0201647	831	
	Test plug MPS	831	
a 2	Marker cards SK 5,08/3,8	798	
Only for ICV 2,5/G-	5,08		
11	Pair of guide rails for a PCB FLRP-ICV 80 Order No. 1808353	837	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	12	
	320	
	5.08	
III/3	III/2	11/2
320	320	630
4	4	4
В	С	D
250	-	300
12	-	10
-	-	-
В	С	D
300	-	300
10	-	10
-	-	-
	PA/I	
	V0	
1	.4 / 1,2 x 0	,5

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data		
Туре	Order No.	Pcs. / Pkt
5.08 mm pitch, color: green		
IC 2,5/ 2-G-5,08	1786404	50
IC 2,5/ 3-G-5,08	1786417	50
IC 2,5/ 4-G-5,08	1786420	50
IC 2,5/ 5-G-5,08	1786433	50
IC 2,5/ 6-G-5,08	1786446	50
IC 2,5/ 7-G-5,08	1786459	50
IC 2,5/ 8-G-5,08	1786462	50
IC 2,5/ 9-G-5,08	1786475	50
IC 2,5/10-G-5,08	1786488	50
IC 2,5/11-G-5,08	1786491	50
IC 2,5/12-G-5,08	1786501	50
IC 2,5/13-G-5,08	1786514	50
IC 2,5/14-G-5,08	1786527	50
IC 2,5/15-G-5,08	1786530	50
IC 2,5/16-G-5,08	1786543	50

CLASSIC COMBICON PLUG-IN connectors, pitches 5.0 or 5.08 mm



With threaded flange, plug-in direction parallel to the PCB



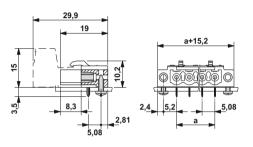
Plug-in direction vertical to the PCB



With threaded flange, plug-in direction vertical to the PCB

(F) Lync (C) Lync CB.

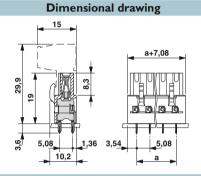
Dimensional drawing



Drilling diagram

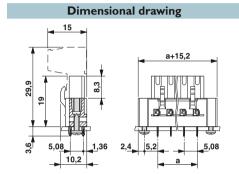




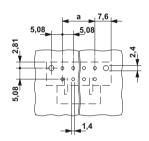


Drilling diagram

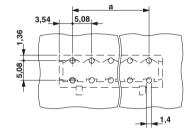
(F) LUS (C) LOE CB



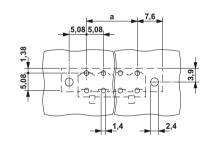
Drilling diagram



Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
IC 2,5/ 2-GF-5,08	1825129	50
IC 2,5/ 3-GF-5,08	1825132	50
IC 2,5/ 4-GF-5,08	1825145	50
IC 2,5/ 5-GF-5,08	1825158	50
IC 2,5/ 6-GF-5,08	1825161	50
IC 2,5/ 7-GF-5,08	1825174	50
IC 2,5/ 8-GF-5,08	1825187	50
IC 2,5/ 9-GF-5,08	1825190	50
IC 2,5/10-GF-5,08	1825200	50
IC 2,5/11-GF-5,08	1825213	50
IC 2,5/12-GF-5,08	1825226	50
IC 2,5/13-GF-5,08	1825239	50
IC 2,5/14-GF-5,08	1825242	50
IC 2,5/15-GF-5,08	1825255	50
IC 2,5/16-GF-5,08	1825268	50

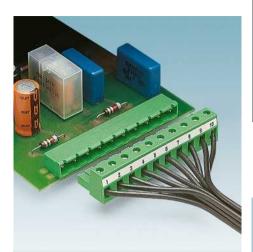


Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.08 mm pitch, color: green					
ICV 2,5/ 2-G-5,08	1785942	50			
ICV 2,5/ 3-G-5,08	1785955	50			
ICV 2,5/ 4-G-5,08	1785968	50			
ICV 2,5/ 5-G-5,08	1785971	50			
ICV 2,5/ 6-G-5,08	1785984	50			
ICV 2,5/ 7-G-5,08	1785997	50			
ICV 2,5/ 8-G-5,08	1786006	50			
ICV 2,5/ 9-G-5,08	1786019	50			
ICV 2,5/10-G-5,08	1786022	50			
ICV 2,5/11-G-5,08	1786035	50			
ICV 2,5/12-G-5,08	1786048	50			
ICV 2,5/13-G-5,08	1786051	50			
ICV 2,5/14-G-5,08	1786064	50			
ICV 2,5/15-G-5,08	1786077	50			
ICV 2,5/16-G-5,08	1786080	50			



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.08 mm pitch, color: green					
ICV 2,5/ 2-GF-5,08	1825695	50			
ICV 2,5/ 3-GF-5,08	1825705	50			
ICV 2,5/ 4-GF-5,08	1825718	50			
ICV 2,5/ 5-GF-5,08	1825721	50			
ICV 2,5/ 6-GF-5,08	1825734	50			
ICV 2,5/ 7-GF-5,08	1825747	50			
ICV 2,5/ 8-GF-5,08	1825750	50			
ICV 2,5/ 9-GF-5,08	1825763	50			
ICV 2,5/10-GF-5,08	1825776	50			
ICV 2,5/11-GF-5,08	1825789	50			
ICV 2,5/12-GF-5,08	1825792	50			
ICV 2,5/13-GF-5,08	1825802	50			
ICV 2,5/14-GF-5,08	1825815	50			
ICV 2,5/15-GF-5,08	1825828	50			
ICV 2,5/16-GF-5,08	1825831	50			

Plug with a screw connection



- Plug components for 630 V applications
- Plug-in direction parallel to the conduc-
- Versions with and without a screw flange
- FRONT-GMSTB 2,5 plug, with front screw connection

Notes:

In accordance with DIN EN 61984, COMBICON PLUG-IN connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



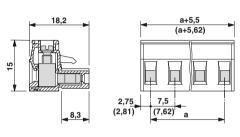
Plug with screw connection

€ •**\$1** us € <u>6</u> C<u>B</u>.

Accessories For all types Туре Page Marker cards SK 7.5/3.8 or 799 SK 7,62/3,8 Coding profile 38 CP-MSTB Order No. 1734634 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Only for FRONT-GMSTB 2,5/...-...



Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section [A] / [mm²] Rated insulation voltage for pollution degree 2 [V] Pitch [mm] Connection capacity $[\text{mm}^2]\,/\,[\text{mm}^2]\,/\,\text{AWG}$ Solid / stranded Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded [mm²] Stranded with ferrules without plastic sleeve [mm²] Stranded with TWIN ferrule with plastic sleeve [mm²] Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [V] Rated surge voltage [kV] Use Group Approval data (UL/CUL) Nominal voltage [V] Nominal current AWG Connection capacity AWG Approval data (CSA) Use Group Nominal voltage [V] Nominal current [A] Connection capacity AWG AWG General data Stripping length [mm] Screw thread Tightening torque [Nm] Type of insulation material / insulation material group Inflammability class according to UL 94

	121) / 2.5	
	630	
	7.5 / 7.62	
0.2 - 2.5	/ 0.2 - 2.5	
	0.25 - 2.5	
	0.25 - 2.5	
0.2	2 - 1 / 0.2 -	1.5
	0.25 - 1	
	0.5 - 1	
III/3	III/2	11/2
400	630	1000
6	6	6
В	С	D
250	-	300
12	-	10
30 - 12	-	30 - 12
В	С	D
300	-	300
10	-	10
28 - 12	-	28 - 12
	7	
	М3	
	0.5 - 0.6	
	PA/I	
	V0	

		Ordering data				
		Туре	Order No.	Pcs. / Pkt.		
No. of pos.	Dim. a [mm]	7.5 mm pitch, color: green				
2	7.50	GMSTB 2,5/ 2-ST	1766880	50		
3	15.00	GMSTB 2,5/ 3-ST	1766893	50		
4	22.50	GMSTB 2,5/ 4-ST	1766903	50		
5	30.00	GMSTB 2,5/ 5-ST	1766916	50		
6	37.50	GMSTB 2,5/ 6-ST	1766929	50		
7	45.00	GMSTB 2,5/ 7-ST	1766932	50		
8	52.50	GMSTB 2,5/ 8-ST	1766945	50		
9	60.00	GMSTB 2,5/ 9-ST	1766958	50		
10	67.50	GMSTB 2,5/10-ST	1766961	50		
11	75.00	GMSTB 2,5/11-ST	1766974	50		
12	82.50	GMSTB 2,5/12-ST	1766987	50		
		Plugs, 7.62 mm pitch, color: green				
2	7.62	GMSTB 2,5/ 2-ST-7,62	1766990	50		
3	15.24	GMSTB 2,5/ 3-ST-7,62	1767012	50		
4	22.86	GMSTB 2,5/ 4-ST-7,62	1767025	50		
5	30.48	GMSTB 2,5/ 5-ST-7,62	1767038	50		
6	38.10	GMSTB 2,5/ 6-ST-7,62	1767041	50		
7	45.72	GMSTB 2,5/ 7-ST-7,62	1767054	50		
8	53.34	GMSTB 2,5/ 8-ST-7,62	1767067	50		
9	60.96	GMSTB 2,5/ 9-ST-7,62	1767070	50		
10	68.58	GMSTB 2,5/10-ST-7,62	1767083	50		
11	76.20	GMSTB 2,5/11-ST-7,62	1767096	50		
12	83.82	GMSTB 2,5/12-ST-7,62	1767106	50		

CLASSIC COMBICON PLUG-IN connectors, pitches 7.5 or 7.62 mm







With screw flange

With front screw connection

With front screw connection and screw flange



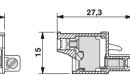
Dimensional drawing

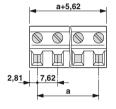
Schem

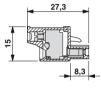
(F) LS CB

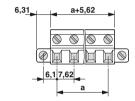
Dimensional drawing Dimensional drawing

5,92



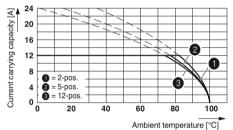






Representative derating curves of the above-mentioned plugs

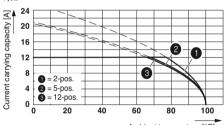
Type: GMSTB 2,5/...-ST-7,62 with GMSTBA 2,5/...-G-7,62





a+6,17

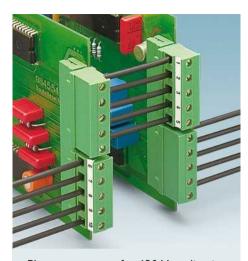
Type: FRONT-GMSTB 2,5/...-STF-7,62 with GMSTB 2,5/...-G-7,62



Ambient temperature	[°C]
---------------------	------

Ordering data		Ordering data		Ordering data				
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
		_			_			
			-			-		
		_	-			-		
			-			-		
			-			-		
		_			_			
			-			-		
			-			-		
Pitch 7.62 mm, color: green			Pitch 7.62 mm, color: green			Pitch 7.62 mm, color: green		
GMSTB 2,5/ 2-STF-7,62	1858769	50	FRONT-GMSTB 2,5/ 2-ST-7,62	1806119	50	FRONT-GMSTB 2,5/ 2-STF-7,62	1805987	50
GMSTB 2,5/ 3-STF-7,62	1858772	50	FRONT-GMSTB 2,5/ 3-ST-7,62	1806122	50	FRONT-GMSTB 2,5/ 3-STF-7,62	1805990	50
GMSTB 2,5/ 4-STF-7,62	1858785	50	FRONT-GMSTB 2,5/ 4-ST-7,62	1806135	50	FRONT-GMSTB 2,5/ 4-STF-7,62	1806009	50
GMSTB 2,5/ 5-STF-7,62	1858798	50	FRONT-GMSTB 2,5/ 5-ST-7,62	1806148	50	FRONT-GMSTB 2,5/ 5-STF-7,62	1806038	50
GMSTB 2,5/ 6-STF-7,62	1858808	50	FRONT-GMSTB 2,5/ 6-ST-7,62	1806151	50	FRONT-GMSTB 2,5/ 6-STF-7,62	1806041	50
GMSTB 2,5/ 7-STF-7,62	1858811	50	FRONT-GMSTB 2,5/ 7-ST-7,62	1806164	50	FRONT-GMSTB 2,5/ 7-STF-7,62	1806054	50
GMSTB 2,5/ 8-STF-7,62	1858824	50	FRONT-GMSTB 2,5/ 8-ST-7,62	1806177	50	FRONT-GMSTB 2,5/ 8-STF-7,62	1806067	50
GMSTB 2,5/ 9-STF-7,62	1858837	50	FRONT-GMSTB 2,5/ 9-ST-7,62	1806180	50	FRONT-GMSTB 2,5/ 9-STF-7,62	1806070	50
GMSTB 2,5/10-STF-7,62	1858840	50	FRONT-GMSTB 2,5/10-ST-7,62	1806193	50	FRONT-GMSTB 2,5/10-STF-7,62	1806083	50
GMSTB 2,5/11-STF-7,62	1858853	50	FRONT-GMSTB 2,5/11-ST-7,62	1806203	50	FRONT-GMSTB 2,5/11-STF-7,62	1806096	50
GMSTB 2,5/12-STF-7,62	1858866	50	FRONT-GMSTB 2,5/12-ST-7,62	1806216	50	FRONT-GMSTB 2,5/12-STF-7,62	1806106	50

Plug with a screw connection



- Plug components for 630 V applications
- Plug-in direction vertical to the conductor axis
- Versions with a screw flange and a 7.62 mm pitch

GMVSTBR 2,5/...-ST

- Conductor entry on the coded side of the connector

GMVSTBW 2,5/...-ST

- Conductor entry on the rippled side of the connector

Notes:

In accordance with DIN EN 61984, COMBICON PLUG-IN connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

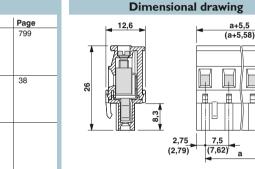
The maximum torque for the screw flange is 0.3 Nm.

1) Derating curves on request.



Conductor entry facing coding side

€ .**\$1** us € CB.



Accessories				
For all types	Туре	Page		
a .	Marker cards SK 7,5/3,8 or SK 7,62/3,8	799		
*	Coding profile CP-MSTB Order No. 1734634	38		
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053			

Technical data	
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	

	12 ¹) / 2.5			
	630			
	7.5 / 7.62			
0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 12		
	0.25 - 2.5			
	0.25 - 2.5			
0.2	- 1 / 0.2 -	1.5		
	0.25 - 1			
	0.5 - 1			
III/3	III/2	11/2		
500	630	1000		
6	6	6		
В	С	D		
250	-	300		
12	-	10		
30 - 12	- C	30 - 12		
В	С	D		
300	-	300		
10	-	10		
28 - 12	-	28 - 12		
	7			
	М3			
	0.5 - 0.6			
PA/I				
	V0			

		Ordering data				
		Туре	Order No.	Pcs. / Pkt.		
No. of pos.	Dim. a [mm]	7.5 mm pitch, color: green				
2	7.50	GMVSTBR 2,5/ 2-ST	1737709	50		
3	15.00	GMVSTBR 2,5/ 3-ST	1737712	50		
4	22.50	GMVSTBR 2,5/ 4-ST	1737725	50		
5	30.00	GMVSTBR 2,5/ 5-ST	1737738	50		
6	37.50	GMVSTBR 2,5/ 6-ST	1737741	50		
7	45.00	GMVSTBR 2,5/ 7-ST	1737754	50		
8	52.50	GMVSTBR 2,5/ 8-ST	1737767	50		
9	60.00	GMVSTBR 2,5/ 9-ST	1737770	50		
10	67.50	GMVSTBR 2,5/10-ST	1737783	50		
11	75.00	GMVSTBR 2,5/11-ST	1737796	50		
12	82.50	GMVSTBR 2,5/12-ST	1737806	50		
		Plugs, 7.62 mm pitch, color: green				
2	7.62	GMVSTBR 2,5/ 2-ST-7,62	1832523	50		
3	15.24	GMVSTBR 2,5/ 3-ST-7,62	1832536	50		
4	22.86	GMVSTBR 2,5/ 4-ST-7,62	1832549	50		
5	30.48	GMVSTBR 2,5/ 5-ST-7,62	1832552	50		
6	38.10	GMVSTBR 2,5/ 6-ST-7,62	1832565	50		
7	45.72	GMVSTBR 2,5/ 7-ST-7,62	1832578	50		
8	53.34	GMVSTBR 2,5/ 8-ST-7,62	1832581	50		
9	60.96	GMVSTBR 2,5/ 9-ST-7,62	1832594	50		
10	68.58	GMVSTBR 2,5/10-ST-7,62	1832604	50		
11	76.20	GMVSTBR 2,5/11-ST-7,62	1832617	50		
12	83.82	GMVSTBR 2,5/12-ST-7,62	1832620	50		

CLASSIC COMBICON PLUG-IN connectors, pitches 7.5 or 7.62 mm



Conductor entry facing coding side, with screw flange

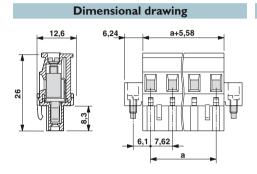


Conductor entry facing rippled side

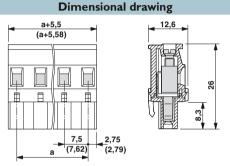


Conductor entry facing rippled side, with screw flange

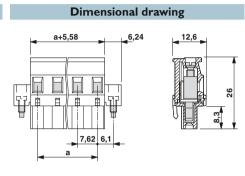




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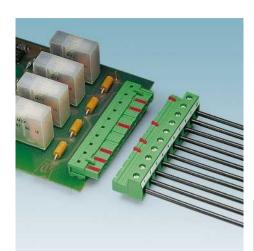
(F) LS CE CE



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 7.62 mm, color: green					
GMVSTBR 2,5/ 2-STF-7,62	1847880	50			
GMVSTBR 2,5/ 3-STF-7,62	1847893	50			
GMVSTBR 2,5/ 4-STF-7,62	1847903	50			
GMVSTBR 2,5/ 5-STF-7,62	1847916	50			
GMVSTBR 2,5/ 6-STF-7,62	1847929	50			
GMVSTBR 2,5/ 7-STF-7,62	1847932	50			
GMVSTBR 2,5/ 8-STF-7,62	1847945	50			
GMVSTBR 2,5/ 9-STF-7,62	1847958	50			
GMVSTBR 2,5/10-STF-7,62	1847961	50			
GMVSTBR 2,5/11-STF-7,62	1847974	50			
GMVSTBR 2,5/12-STF-7,62	1847987	50			

Ordering data			Ordering da	ıta	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: green					
GMVSTBW 2,5/ 2-ST	1737819	50			
GMVSTBW 2,5/ 3-ST	1737822	50			
GMVSTBW 2,5/ 4-ST	1737835	50			
GMVSTBW 2,5/ 5-ST	1737848	50			
GMVSTBW 2,5/ 6-ST	1737851	50			
GMVSTBW 2,5/ 7-ST	1737864	50			
GMVSTBW 2,5/ 8-ST	1737877	50			
GMVSTBW 2,5/ 9-ST	1737880	50			
GMVSTBW 2,5/10-ST	1737893	50			
GMVSTBW 2,5/11-ST	1737903	50			
GMVSTBW 2,5/12-ST	1737916	50			
Pitch 7.62 mm, color: green			Pitch 7.62 mm, color: green		
GMVSTBW 2,5/ 2-ST-7,62	1832413	50	GMVSTBW 2,5/ 2-STF-7,62	1847990	50
GMVSTBW 2,5/ 3-ST-7,62	1832426	50	GMVSTBW 2,5/ 3-STF-7,62	1848009	50
GMVSTBW 2,5/ 4-ST-7,62	1832439	50	GMVSTBW 2,5/ 4-STF-7,62	1848012	50
GMVSTBW 2,5/ 5-ST-7,62	1832442	50	GMVSTBW 2,5/ 5-STF-7,62	1848025	50
GMVSTBW 2,5/ 6-ST-7,62	1832455	50	GMVSTBW 2,5/ 6-STF-7,62	1848038	50
GMVSTBW 2,5/ 7-ST-7,62	1832468	50	GMVSTBW 2,5/ 7-STF-7,62	1848041	50
GMVSTBW 2,5/ 8-ST-7,62	1832471	50	GMVSTBW 2,5/ 8-STF-7,62	1848054	50
GMVSTBW 2,5/ 9-ST-7,62	1832484	50	GMVSTBW 2,5/ 9-STF-7,62	1848067	50
GMVSTBW 2,5/10-ST-7,62	1832497	50	GMVSTBW 2,5/10-STF-7,62	1848070	50
GMVSTBW 2,5/11-ST-7,62	1832507	50	GMVSTBW 2,5/11-STF-7,62	1848083	50
GMVSTBW 2,5/12-ST-7,62	1832510	50	GMVSTBW 2,5/12-STF-7,62	1848096	50

Inverted plugs with a screw connection



- Plug for 630 V shock-proof applications (III/2)
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange/threaded flange
- For various combination options with GMSTB 2,5 plug-in system, refer to page 34

Notes:

In accordance with DIN EN 61984, COMBICON PLUG-IN connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



Inverted plug with screw connection

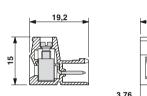
Dimensional drawing

a+7,52

M 岡

© c¶ us PC √où CB.

Accessories For all types Туре Page Marker cards SK 7,62/3,8 799 Coding section 38 CR-MŠTB Order No. 1734401 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Coding tab 837 MSTB-BL Order No. 1755477



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	l group
Inflammability class according to UL 94	

	121) / 2.5	
	630	
	7.62	
0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 12
	0.25 - 2.5	
	0.25 - 2.5	
0.2	! - 1 / 0.2 -	1.5
	0.25 - 1	
	0.5 - 1	
III/3	III/2	11/2
400	630	1000
6	6	6
В	С	D
250	-	300
12	-	10
30 - 12		30 - 12
В	С	D
300	-	300
10	-	10
28 - 12	-	28 - 12
	7	
	М3	
0.5 - 0.6		
	PA/I	
	V0	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	GIC 2,5/ 2-ST-7,62	1828809	50
3	15.24	GIC 2,5/ 3-ST-7,62	1828812	50
4	22.86	GIC 2,5/ 4-ST-7,62	1828825	50
5	30.48	GIC 2,5/ 5-ST-7,62	1828838	50
6	38.10	GIC 2,5/ 6-ST-7,62	1828841	50
7	45.72	GIC 2,5/ 7-ST-7,62	1828854	50
8	53.34	GIC 2,5/ 8-ST-7,62	1828867	50
9	60.96	GIC 2,5/ 9-ST-7,62	1828870	50
10	68.58	GIC 2,5/10-ST-7,62	1828883	50
11	76.20	GIC 2,5/11-ST-7,62	1828896	50
12	83.82	GIC 2,5/12-ST-7,62	1828906	50





With screw flange, for screw connection using inverted headers

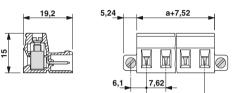
With threaded flange for screw connection using GMSTB connectors

Dimensional drawing

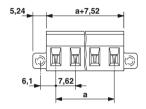


Dimensional drawing

(F) LS CB

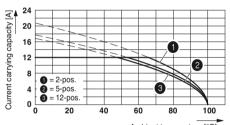






Representative derating curve

Type: GIC 2,5/...-ST-7,62 with GICV 2,5/...-G-7,62

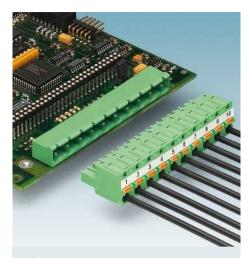


Ambient temperatur	e [°C]
--------------------	--------

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GIC 2,5/ 2-STF-7,62	1858879	50
GIC 2,5/ 3-STF-7,62	1858882	50
GIC 2,5/ 4-STF-7,62	1858895	50
GIC 2,5/ 5-STF-7,62	1858905	50
GIC 2,5/ 6-STF-7,62	1858918	50
GIC 2,5/ 7-STF-7,62	1858921	50
GIC 2,5/ 8-STF-7,62	1858934	50
GIC 2,5/ 9-STF-7,62	1858947	50
GIC 2,5/10-STF-7,62	1858950	50
GIC 2,5/11-STF-7,62	1858963	50
GIC 2,5/12-STF-7,62	1858976	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: green			
GIC 2,5/ 2-STGF-7,62	1849888	50	
GIC 2,5/ 3-STGF-7,62	1849891	50	
GIC 2,5/ 4-STGF-7,62	1849901	50	
GIC 2,5/ 5-STGF-7,62	1849914	50	
GIC 2,5/ 6-STGF-7,62	1849927	50	
GIC 2,5/ 7-STGF-7,62	1849930	50	
GIC 2,5/ 8-STGF-7,62	1849943	50	
GIC 2,5/ 9-STGF-7,62	1849956	50	
GIC 2,5/10-STGF-7,62	1849969	50	
GIC 2,5/11-STGF-7,62	1849972	50	
GIC 2,5/12-STGF-7,62	1849985	50	

Plug with push-in spring connection



- Convenient conductor connection, thanks to push-in spring connection for 630 V applications
- Two test connections to accommodate 2 mm Ø test pins or 2.3 mm Ø test con-

Notes:

In accordance with DIN EN 61984, COMBICON PLUG-IN connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



Plug with push-in spring connection

Dimensional drawing

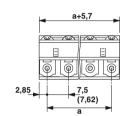
Accessories For all types Туре Marker cards SK 7,5/3,8 or SK 7,62/3,8 Coding profile CP-MSTB Order No. 1734634 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Ferrules with and without plastic sleeve Crimping pliers for 0.25 to 6 mm²

CRIMPFOX 6

Order No. 1212034 Test plug

MPS

age 1999 188	25
34	Derating curves, DIN EN 61984 (V Representation b
	Connected cond Reduction factor Number of position



Note derating curves

, determined as per VDE 0627):2002-09 based on DIN EN 60512-5-2:2003-01 ductor cross section = 2.5 mm² tions = see diagram

Technical data

Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
	mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with t	he same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	

	121) / 2.5	
-	630	
	7.5 / 7.62	
0.2 - 2.5	7 0.2 - 2.5	/ 24 - 12
	0.25 - 2.5	
	0.25 - 2.5	
	-/-	
	-	
	0.5 - 1	
III/3	III/2	11/2
400	630	1000
6	6	6
В	С	D
250	-	300
10	-	10
26 - 12	- - C	26 - 12
В	С	D
300	-	300
12	-	10
24 - 12	-	24 - 12
	10	
	PA/I	
	V0	

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50
2	7.62
3 4	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
40	20.00

831

	Ordering data		
	Туре	Order No.	Pcs. / Pkt.
Dim. a [mm]	7.5 mm pitch, color: green		
7.50	GFKC 2,5/ 2-ST-7,5	1939413	50
15.00	GFKC 2,5/ 3-ST-7,5	1939426	50
22.50	GFKC 2,5/ 4-ST-7,5	1939439	50
30.00	GFKC 2,5/ 5-ST-7,5	1939442	50
37.50	GFKC 2,5/ 6-ST-7,5	1939455	50
45.00	GFKC 2,5/ 7-ST-7,5	1939468	50
52.50	GFKC 2,5/ 8-ST-7,5	1939471	50
60.00	GFKC 2,5/ 9-ST-7,5	1939484	50
67.50	GFKC 2,5/10-ST-7,5	1939497	50
75.00	GFKC 2,5/11-ST-7,5	1939507	50
82.50	GFKC 2,5/12-ST-7,5	1939510	50
	Pitch 7.62 mm, color: green		
7.62	GFKC 2,5/ 2-ST-7,62	1939633	50
15.24	GFKC 2,5/ 3-ST-7,62	1939646	50
22.86	GFKC 2,5/ 4-ST-7,62	1939659	50
30.48	GFKC 2,5/ 5-ST-7,62	1939662	50
38.10	GFKC 2,5/ 6-ST-7,62	1939675	50
45.72	GFKC 2,5/ 7-ST-7,62	1939688	50
53.34	GFKC 2,5/ 8-ST-7,62	1939691	50
60.96	GFKC 2,5/ 9-ST-7,62	1939701	50
68.58	GFKC 2,5/10-ST-7,62	1939714	50
76.20	GFKC 2,5/11-ST-7,62	1939727	50
83.82	GFKC 2,5/12-ST-7,62	1939730	50

Ordering data





With screw flange

Inverted plug with pin contact

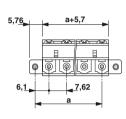


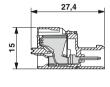
Dimensional drawing

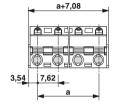
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Dimensional drawing



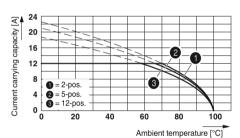






Representative derating curve

Type: GFKC 2,5/...-ST with GMSTBA 2,5/...-G



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GFKC 2,5/ 2-STF-7,62	1939743	50
GFKC 2,5/ 3-STF-7,62	1939756	50
GFKC 2,5/ 4-STF-7,62	1939769	50
GFKC 2,5/ 5-STF-7,62	1939772	50
GFKC 2,5/ 6-STF-7,62	1939785	50
GFKC 2,5/ 7-STF-7,62	1939798	50
GFKC 2,5/ 8-STF-7,62	1939808	50
GFKC 2,5/ 9-STF-7,62	1939811	50
GFKC 2,5/10-STF-7,62	1939824	50
GFKC 2,5/11-STF-7,62	1939837	50
GFKC 2,5/12-STF-7,62	1939840	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: green			
GFKIC 2,5/ 2-ST-7,62	1761603	50	
GFKIC 2,5/ 3-ST-7,62	1761616	50	
GFKIC 2,5/ 4-ST-7,62	1761629	50	
GFKIC 2,5/ 5-ST-7,62	1761632	50	
GFKIC 2,5/ 6-ST-7,62	1761645	50	
GFKIC 2,5/ 7-ST-7,62	1761658	50	
GFKIC 2,5/ 8-ST-7,62	1761661	50	
GFKIC 2,5/ 9-ST-7,62	1761674	50	
GFKIC 2,5/10-ST-7,62	1761687	50	
GFKIC 2,5/11-ST-7,62	1761690	50	
GFKIC 2,5/12-ST-7,62	1761700	50	

Single-level header for the wave soldering processes



- Headers with angled solder pins for 630 V applications (III/2)
- Plug-in direction parallel to the PCB
- Versions with and without side panels
- Versions with a threaded flange and a 7.62 mm pitch
- Other pin lengths available on request

Notes:

In accordance with DIN EN 61984, COMBICON PLUG-IN connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

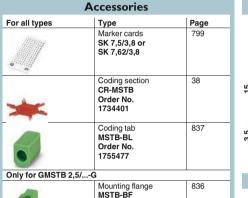
Mounting screws for base element with threaded flange (.... GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.



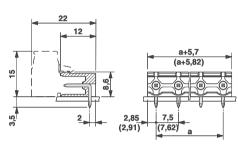
Without side panels, plug-in direction parallel to the PCB

Dimensional drawing

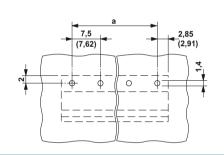
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Order No. 1759981



Drilling diagram



Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current	[A]		12	
Rated insulation voltage for pollution degree 2	[V]		630	
Pitch	[mm]		7.5 / 7.62	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11/2
Rated insulation voltage	[V]	400	630	630
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D

[V]

[A]

AWG

[mm]

300

PA/I

V0

1.4 / 1 x 1 mm

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20

Ordering data		
Туре	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: green		
GMSTB 2,5/ 2-G	1766013	50
GMSTB 2,5/ 3-G	1766026	50
GMSTB 2,5/ 4-G	1766039	50
GMSTB 2,5/ 5-G	1766042	50
GMSTB 2,5/ 6-G	1766055	50
GMSTB 2,5/ 7-G	1766068	50
GMSTB 2,5/ 8-G	1766071	50
GMSTB 2,5/ 9-G	1766084	50
GMSTB 2,5/10-G	1766097	50
GMSTB 2,5/11-G	1766107	50
GMSTB 2,5/12-G	1766110	50
Pitch 7.62 mm, color: green		
GMSTB 2,5/ 2-G-7,62	1766123	50
GMSTB 2,5/ 3-G-7,62	1766136	50
GMSTB 2,5/ 4-G-7,62	1766149	50
GMSTB 2,5/ 5-G-7,62	1766152	50
GMSTB 2,5/ 6-G-7,62	1766165	50
GMSTB 2,5/ 7-G-7,62	1766178	50
GMSTB 2,5/ 8-G-7,62	1766181	50
GMSTB 2,5/ 9-G-7,62	1766194	50
GMSTB 2,5/10-G-7,62	1766204	50
GMSTB 2,5/11-G-7,62	1766217	50
GMSTB 2,5/12-G-7,62	1766220	50
	Type 7.5 mm pitch, color: green GMSTB 2,5/ 2-G GMSTB 2,5/ 3-G GMSTB 2,5/ 4-G GMSTB 2,5/ 4-G GMSTB 2,5/ 6-G GMSTB 2,5/ 6-G GMSTB 2,5/ 6-G GMSTB 2,5/ 9-G GMSTB 2,5/ 9-G GMSTB 2,5/11-G GMSTB 2,5/11-G GMSTB 2,5/12-G Pitch 7.62 mm, color: green GMSTB 2,5/ 3-G GMSTB 2,5/ 6-G GMSTB 2,5/ 6-G GMSTB 2,5/ 6-G GMSTB 2,5/ 3-G GMSTB	Type Order No. 7.5 mm pitch, color: green GMSTB 2,5/ 2-G 1766026 GMSTB 2,5/ 3-G 1766026 GMSTB 2,5/ 4-G 1766039 GMSTB 2,5/ 5-G 1766042 GMSTB 2,5/ 6-G 1766055 GMSTB 2,5/ 6-G 1766055 GMSTB 2,5/ 8-G 1766071 GMSTB 2,5/ 8-G 1766071 GMSTB 2,5/ 10-G 1766084 GMSTB 2,5/ 10-G 1766084 GMSTB 2,5/11-G 1766107 GMSTB 2,5/11-G 1766107 GMSTB 2,5/12-G 1766110 Pitch 7.62 mm, color: green GMSTB 2,5/ 2-G-7,62 1766136 GMSTB 2,5/ 3-G-7,62 1766136 GMSTB 2,5/ 4-G-7,62 1766152 GMSTB 2,5/ 5-G-7,62 1766152 GMSTB 2,5/ 7-G-7,62 1766152 GMSTB 2,5/ 7-G-7,62 1766181 GMSTB 2,5/ 9-G-7,62 1766181 GMSTB 2,5/ 10-G-7,62 1766181 GMSTB 2,5/ 10-G-7,62 1766194 GMSTB 2,5/ 11-G-7,62 1766204 GMSTB 2,5/ 11-G-7,62 1766204 GMSTB 2,5/ 11-G-7,62 1766217

Nominal voltage

Nominal current

General data

Connection capacity AWG

Type of insulation material / insulation material group

Inflammability class according to UL 94

Drill hole diameter / pin dimensions





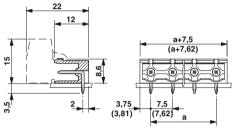
With side panels, plug-in direction parallel to the PCB

With threaded flange, plug-in direction parallel to the PCB

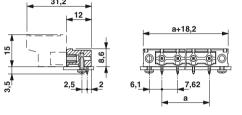


Dimensional drawing

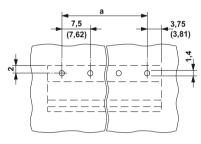


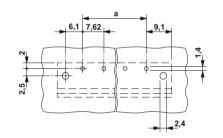


Dimensional drawing



Drilling diagram

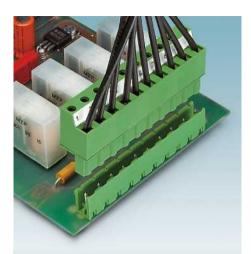




Ordering data			
Туре	Order No.	Pcs. / Pkt.	
7.5 mm pitch, color: green			
GMSTBA 2,5/ 2-G	1766343	250	
GMSTBA 2,5/ 3-G	1766356	250	
GMSTBA 2,5/ 4-G	1766369	250	
GMSTBA 2,5/ 5-G	1766372	250	
GMSTBA 2,5/ 6-G	1766385	100	
GMSTBA 2,5/ 7-G	1766398	100	
GMSTBA 2,5/ 8-G	1766408	100	
GMSTBA 2,5/ 9-G	1766411	100	
GMSTBA 2,5/10-G	1766424	100	
GMSTBA 2,5/11-G	1766437	50	
GMSTBA 2,5/12-G	1766440	50	
Pitch 7.62 mm, color: green			
GMSTBA 2,5/ 2-G-7,62	1766233	250	
GMSTBA 2,5/ 3-G-7,62	1766246	250	
GMSTBA 2,5/ 4-G-7,62	1766259	250	
GMSTBA 2,5/ 5-G-7,62	1766262	250	
GMSTBA 2,5/ 6-G-7,62	1766275	100	
GMSTBA 2,5/ 7-G-7,62	1766288	100	
GMSTBA 2,5/ 8-G-7,62	1766291	100	
GMSTBA 2,5/ 9-G-7,62	1766301	100	
GMSTBA 2,5/10-G-7,62	1766314	100	
GMSTBA 2,5/11-G-7,62	1766327	50	
GMSTBA 2,5/12-G-7,62	1766330	50	

Ordering data					
Type Order No. Pcs./P					
		_			
		_			
		_			
		_			
Pitch 7.62 mm, color: green					
GMSTB 2,5/ 2-GF-7,62	1806229	50			
GMSTB 2,5/ 3-GF-7,62	1806232	50			
GMSTB 2,5/ 4-GF-7,62	1806245	50			
GMSTB 2,5/ 5-GF-7,62	1806258	50			
GMSTB 2,5/ 6-GF-7,62	1806261	50			
GMSTB 2,5/ 7-GF-7,62	1806274	50			
GMSTB 2,5/ 8-GF-7,62	1806287	50			
GMSTB 2,5/ 9-GF-7,62	1806290	50			
GMSTB 2,5/10-GF-7,62	1806300	50			
GMSTB 2,5/11-GF-7,62	1806313	50			
GMSTB 2,5/12-GF-7,62	1806326	50			

Single-level header for the wave soldering processes



- Headers with straight solder pins for 630 V applications (III/2)
- Plug-in direction vertical to the PCB
- Versions with and without side panels, as well as with and without threaded flange
- Versions with a threaded flange and a 7.62 mm pitch
- Other pin lengths available on request

Notes:

In accordance with DIN EN 61984, COMBICON PLUG-IN connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

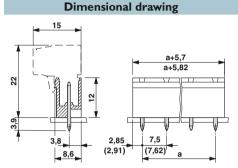
Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

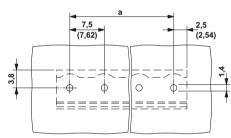


Without side panels, plug-in direction vertical to the PCB

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Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
<u> </u>	

	12	
	630	
	7.5 / 7.62	
III/3	III/2	II / 2
400	630	630
6	6	6
В	С	D
250	-	300
12	-	10
-	-	-
В	С	D
300	-	300
10	-	10
-	-	-
	PA/I	
	V0	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	7.5 mm pitch, color: green		
2	7.50	GMSTBV 2,5/ 2-G	1766453	50
3	15.00	GMSTBV 2,5/ 3-G	1766466	50
4	22.50	GMSTBV 2,5/ 4-G	1766479	50
5	30.00	GMSTBV 2,5/ 5-G	1766482	50
6	37.50	GMSTBV 2,5/ 6-G	1766495	50
7	45.00	GMSTBV 2,5/ 7-G	1766505	50
8	52.50	GMSTBV 2,5/ 8-G	1766518	50
9	60.00	GMSTBV 2,5/ 9-G	1766521	50
10	67.50	GMSTBV 2,5/10-G	1766534	50
11	75.00	GMSTBV 2,5/11-G	1766547	50
12	82.50	GMSTBV 2,5/12-G	1766550	50
		Headers, 7.62 mm pitch, color: green		
2	7.62	GMSTBV 2,5/ 2-G-7,62	1766563	50
3	15.24	GMSTBV 2,5/ 3-G-7,62	1766576	50
4	22.86	GMSTBV 2,5/ 4-G-7,62	1766589	50
5	30.48	GMSTBV 2,5/ 5-G-7,62	1766592	50
6	38.10	GMSTBV 2,5/ 6-G-7,62	1766602	50
7	45.72	GMSTBV 2,5/ 7-G-7,62	1766615	50
8	53.34	GMSTBV 2,5/ 8-G-7,62	1766628	50
9	60.96	GMSTBV 2,5/ 9-G-7,62	1766631	50
10	68.58	GMSTBV 2,5/10-G-7,62	1766644	50
11	76.20	GMSTBV 2,5/11-G-7,62	1766657	50
12	83.82	GMSTBV 2,5/12-G-7,62	1767119	50





With side panels, plug-in direction vertical to the PCB

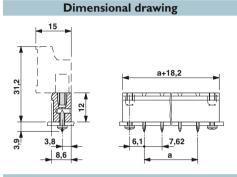
With threaded flange, plug-in direction vertical to the PCB



Dimensional drawing 15 22 VIII (7,62) (3,81)

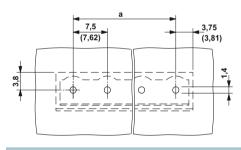
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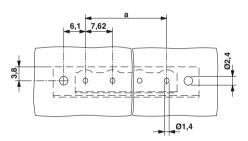
Type



Drilling diagram







Ordering data

Order No. Pcs. / Pkt.

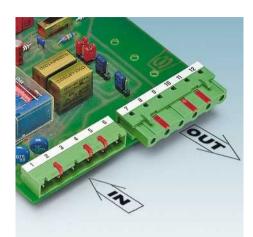
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
7.5 mm pitch, color: green			
GMSTBVA 2,5/ 2-G	1766660	250	
GMSTBVA 2,5/ 3-G	1766673	250	
GMSTBVA 2,5/ 4-G	1766686	250	
GMSTBVA 2,5/ 5-G	1766699	250	
GMSTBVA 2,5/ 6-G	1766709	100	
GMSTBVA 2,5/ 7-G	1766712	100	
GMSTBVA 2,5/ 8-G	1766725	100	
GMSTBVA 2,5/ 9-G	1766738	100	
GMSTBVA 2,5/10-G	1766741	100	
GMSTBVA 2,5/11-G	1766754	50	
GMSTBVA 2,5/12-G	1766767	50	
Pitch 7.62 mm, color: green			
GMSTBVA 2,5/ 2-G-7,62	1766770	250	
GMSTBVA 2,5/ 3-G-7,62	1766783	250	
GMSTBVA 2,5/ 4-G-7,62	1766796	250	
GMSTBVA 2,5/ 5-G-7,62	1766806	250	
GMSTBVA 2,5/ 6-G-7,62	1766819	100	
GMSTBVA 2,5/ 7-G-7,62	1766822	100	
GMSTBVA 2,5/ 8-G-7,62	1766835	100	
GMSTBVA 2,5/ 9-G-7,62	1766848	100	
GMSTBVA 2,5/10-G-7,62	1766851	100	
GMSTBVA 2,5/11-G-7,62	1766864	50	

1766877

GMSTBVA 2,5/12-G-7,62

<u> </u>		
Pitch 7.62 mm, color: green		
GMSTBV 2,5/ 2-GF-7,62	1829154	
	1023134	50
GMSTBV 2,5/ 3-GF-7,62	1829167	50
GMSTBV 2,5/ 3-GF-7,62 GMSTBV 2,5/ 4-GF-7,62		
	1829167	50
GMSTBV 2,5/ 4-GF-7,62	1829167 1829170	50 50
GMSTBV 2,5/ 4-GF-7,62 GMSTBV 2,5/ 5-GF-7,62	1829167 1829170 1829183	50 50 50
GMSTBV 2,5/ 4-GF-7,62 GMSTBV 2,5/ 5-GF-7,62 GMSTBV 2,5/ 6-GF-7,62	1829167 1829170 1829183 1829196	50 50 50 50
GMSTBV 2,5/ 4-GF-7,62 GMSTBV 2,5/ 5-GF-7,62 GMSTBV 2,5/ 6-GF-7,62 GMSTBV 2,5/ 7-GF-7,62	1829167 1829170 1829183 1829196 1829206	50 50 50 50 50
GMSTBV 2,5/ 4-GF-7,62 GMSTBV 2,5/ 5-GF-7,62 GMSTBV 2,5/ 6-GF-7,62 GMSTBV 2,5/ 7-GF-7,62 GMSTBV 2,5/ 8-GF-7,62	1829167 1829170 1829183 1829196 1829206 1829219	50 50 50 50 50 50
GMSTBV 2,5/ 4-GF-7,62 GMSTBV 2,5/ 5-GF-7,62 GMSTBV 2,5/ 6-GF-7,62 GMSTBV 2,5/ 7-GF-7,62 GMSTBV 2,5/ 8-GF-7,62 GMSTBV 2,5/ 9-GF-7,62	1829167 1829170 1829183 1829196 1829206 1829219 1829222	50 50 50 50 50 50 50 50

Inverted header for the wave soldering processes



- Use in shock-proof applications up to 630 V (III/2)
- Horizontal and vertical plug-in direction
- Versions with and without a threaded flange
- Pairs of guide rails can be used as a 90° board to board connection
- Combination with GMSTB 2,5 headers for primary/secondary/PCB connection
- Clear separation of PCB inputs/outputs
- For various combination options with GMSTB 2,5 plug-in system, refer to page 34

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

Dimensional drawing of FLRP-ICV and PCB cutout can be found on page 838

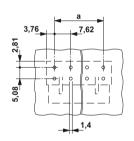
Mounting screws for GIC 2,5/...-GF-7,62 and GICV 2,5/...-GF-7,62: sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.



Plug-in direction parallel to the PCB

(F) CB CB

Dimensional drawing a+7,52 alequal 7,62



Accessories			
For all types	Туре	Page	
	Marker cards SK 7,62/3,8	799	
*	Coding profile CP-MSTB Order No. 1734634	38	
	Reducing plug RPS Order No. 0201647	831	
	Test plug MPS	831	
Only for GICV 2,5/G-7	7,62		
11	Pair of guide rails for a PCB FLRP-ICV 80 Order No. 1808353	837	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

12	
630	
7.62	
	11/2
630	1000
6	6
С	D
-	300
-	10
-	-
С	D
-	300
-	10
-	-
PA/I	
.4 / 1.2 x 0.	.5
	630 7.62 III/2 630 6 C PA/I

Т		
P	Dim. a [mm]	No. of pos.
G	7.62	2
G	15.24	3
G	22.86	4
G	30.48	5
G	38.10	6
G	45.72	7
G	53.34	8
G	60.96	9
G	68.58	10
G	76.20	11
G	83.82	12

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GIC 2,5/ 2-G-7,62	1828676	50
GIC 2,5/ 3-G-7,62	1828689	50
GIC 2,5/ 4-G-7,62	1828692	50
GIC 2,5/ 5-G-7,62	1828702	50
GIC 2,5/ 6-G-7,62	1828715	50
GIC 2,5/ 7-G-7,62	1828728	50
GIC 2,5/ 8-G-7,62	1828731	50
GIC 2,5/ 9-G-7,62	1828744	50
GIC 2,5/10-G-7,62	1828757	50
GIC 2,5/11-G-7,62	1828760	50
GIC 2,5/12-G-7,62	1828773	50



With threaded flange, plug-in direction parallel to the PCB



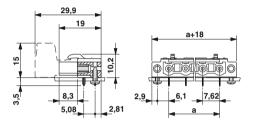
Plug-in direction vertical to the PCB



With threaded flange, plug-in direction vertical to the PCB

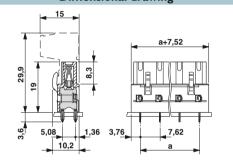
(F) Lync (C) Lync CB.

Dimensional drawing

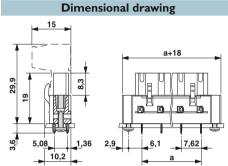


(cal us PC A CB





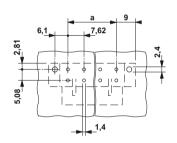
(F) LS CE CE



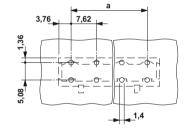
Drilling diagram



Drilling diagram



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GIC 2,5/ 2-GF-7,62	1858989	50
GIC 2,5/ 3-GF-7,62	1858992	50
GIC 2,5/ 4-GF-7,62	1859001	50
GIC 2,5/ 5-GF-7,62	1859014	50
GIC 2,5/ 6-GF-7,62	1859027	50
GIC 2,5/ 7-GF-7,62	1859030	50
GIC 2,5/ 8-GF-7,62	1859043	50
GIC 2,5/ 9-GF-7,62	1859056	50
GIC 2,5/10-GF-7,62	1859069	50
GIC 2,5/11-GF-7,62	1859072	50
GIC 2,5/12-GF-7,62	1859085	50



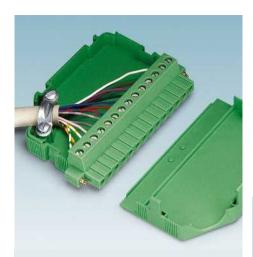
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: green			
GICV 2,5/ 2-G-7,62	1828919	50	
GICV 2,5/ 3-G-7,62	1828922	50	
GICV 2,5/ 4-G-7,62	1828935	50	
GICV 2,5/ 5-G-7,62	1828948	50	
GICV 2,5/ 6-G-7,62	1828951	50	
GICV 2,5/ 7-G-7,62	1828964	50	
GICV 2,5/ 8-G-7,62	1828977	50	
GICV 2,5/ 9-G-7,62	1828980	50	
GICV 2,5/10-G-7,62	1828993	50	
GICV 2,5/11-G-7,62	1829002	50	
GICV 2,5/12-G-7,62	1829015	50	

	6,1 7,62 9	
1,36		<u>.</u>
2,08		-
, O	1,4	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GICV 2,5/ 2-GF-7,62	1859098	50
GICV 2,5/ 3-GF-7,62	1859108	50
GICV 2,5/ 4-GF-7,62	1859111	50
GICV 2,5/ 5-GF-7,62	1859124	50
GICV 2,5/ 6-GF-7,62	1859137	50
GICV 2,5/ 7-GF-7,62	1859140	50
GICV 2,5/ 8-GF-7,62	1859153	50
GICV 2,5/ 9-GF-7,62	1859166	50
GICV 2,5/10-GF-7,62	1859179	50
GICV 2,5/11-GF-7,62	1859182	50
GICV 2,5/12-GF-7,62	1859195	50

Special types

Cable housings



- For MSTB, IC and GMSTB plug components, with and without flange with 5.0 and 5.08 mm pitches
- Complete snap-locking of the two half shells of the cable housing
- Cable strain relief using cable binder or cable clamp
- Suitable for cables with a diameter of 4 to 13.5 mm
- Straight cable outlet for aligning multiple cable housings
- Easier plugging and unplugging processes
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

Notes:

The possible combinations for cable housing with GMSTB 2,5/...-ST(-7,62) can be found on page 838



For 4 to 6 mm cable diameters, cable binders and marker strips are included, straight cable outlet

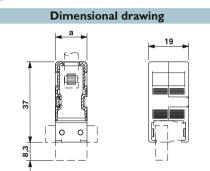


For all types Marker strips, unprinted, 10-section SBS 2,5/7,5 Order No. 1007604 Only for KGS-MSTB 2,5/ Transparent marker car-

	O
	0i 17
	Be KI
	KI
(a)	01
	15

rier KGS-MSTB 2,5/DST Order No. 1784914	
Bend protection sleeve KD-KGS-MSTB Order No. 1804658	





Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	$[A] / [mm^2]$		-/-	
Rated insulation voltage for pollution degree 2	[V]		-	
Pitch	[mm]		0	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11 / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group			ABS/I	
Inflammability class according to UL 94			HB	

No. of pos.	Dim. a [mm]
2	10.00
3	15.00
4	20.00
5	25.00
6	30.00
7	35.00
8	40.00
9	45.00
10	50.00
11	55.00
12	60.00
13	65.00
14	70.00
15	75.00
16	80.00

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 or 5.08 mm pitch, color: green				
KGG-MSTB 2,5/ 2	1803934	10		
KGG-MSTB 2,5/3	1803947	10		

Special types



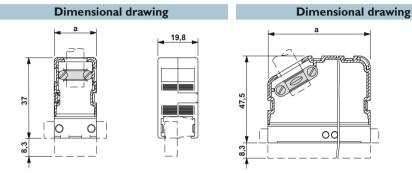
For 5 to 9.5 mm cable diameters, cable clamps, screws and marker strips are included, straight cable outlet



For 6 to 13.5 mm cable diameters, marker strips and transparent label carriers are included, angled cable outlet

19,8





Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 or 5.08 mm pitch, color: green			
KGG-MSTB 2,5/ 4	1803882	10	
KGG-MSTB 2,5/ 5	1803895	10	
KGG-MSTB 2,5/ 6	1803905	10	
KGG-MSTB 2,5/ 7	1803918	10	
KGG-MSTB 2,5/ 8	1803921	10	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
KGS-MSTB 2,5/8	1783779	10	
KGS-MSTB 2,5/ 9	1783782	10	
KGS-MSTB 2,5/10	1783740	10	
KGS-MSTB 2,5/11	1783805	10	
KGS-MSTB 2,5/12	1783818	10	
KGS-MSTB 2,5/13	1783821	10	
KGS-MSTB 2,5/14	1783834	10	
KGS-MSTB 2,5/15	1783847	10	
KGS-MSTB 2,5/16	1783850	10	

Classic plug-in connector with 5.0 to 7.62 mm pitch

Special types

Feed-through assembly frame



- Feed-through assembly frame for inverted IC 2,5/...-STGF-5,08 COMBICON plugs
- The frame can be inserted and screwed into the cutout
- Snap-locking the IC plug component into the frame
- Fitting the MSTB 2,5/...-STF-5,08 connector from outside
- Vibration-resistant screwing of the two plug components using a screw flange
- Up to a wall thickness of 1.5 mm, the frame can be screwed before the IC plug is mounted

Notes:

Cutout dimensions b and c can be found on page 838.

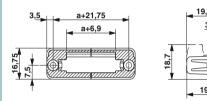
IC 2,5/...-STGF-5,08 plugs, see page 273.



For snapping in the IC 2,5/...-STGF-5,08 inverted plug, for wall thicknesses from 0.5 to 4.5 mm

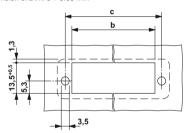
Accessories			
For all types	Туре	Page	
8	One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263		

Dimensional drawing



Drilling diagram

Dimension b: 10.84 mm + (no. of pos. x 5.08 mm) Dimension c: Dim. b + 5.83 mm



Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	$[A]/[mm^2]$		-	
Rated insulation voltage for pollution degree 2	[V]		-	
Pitch	[mm]		5.08	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group			PA/I	
Inflammability class according to UL 94		-	V0	

		Ordering d	ata	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.08 mm pitch, color: green		
2	5.08	IC-DFR 2	1852024	50
3	10.16	IC-DFR 3	1852037	50
4	15.24	IC-DFR 4	1852040	50
5	20.32	IC-DFR 5	1852053	50
6	25.40	IC-DFR 6	1852066	50
7	30.48	IC-DFR 7	1852079	50
8	35.56	IC-DFR 8	1852082	50
9	40.64	IC-DFR 9	1852095	50
10	45.72	IC-DFR 10	1852105	50
11	50.80	IC-DFR 11	1852118	50
12	55.88	IC-DFR 12	1852121	50
13	60.96	IC-DFR 13	1852134	50
14	66.04	IC-DFR 14	1852147	50
15	71.12	IC-DFR 15	1852150	50
16	76.20	IC-DFR 16	1852163	50

Special types

Special types

Feed-through housing



- Header for assembly in a device/housing
- Outside: plug-in connection for corresponding MSTB 2,5 or FKC 2,5 plugs
- Internally combinable solder or 2.8 mm slip-on connection
- Versions with and without a threaded flange
- Can be fixed in housing walls up to 6 mm thick using two M3 x 10 screws

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

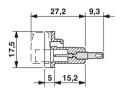
For cutout dimensions see page 838.

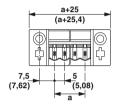
1) When using the spade connection, the rated current is 7.5 A.



For housing walls 0.5 to 4 mm thick

Dimensional drawing





Accessories			
For all types	Туре	Page	
*	Coding section CR-MSTB Order No. 1734401	38	
	Coding tab MSTB-BL Order No. 1755477	837	
	One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263		
Only for DFK-MSTB 2,5	/G		
1	Ticks for snapping on the MSTB(T) connectors DFK-MSTB-R Order No. 5030172		

lechnicai data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Slip-on connection (DIN 46249-1)	[A]/[mm]

	12¹) / 2.5	
	320	
	5 / 5.08	
III/3	III/2	II / 2
320	320	630
4	4	4
В	Ċ	D
300	-	300
15	-	15
-	-	-
В	С	D
300	-	300
10	-	10
-	-	-
	PA/I	
	V2	
-/	2.8 x 0.8 m	m

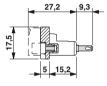
		Ordering dat	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	DFK-MSTB 2,5/ 2-G	0707109	50
3	10.00	DFK-MSTB 2,5/ 3-G	0707112	50
4	15.00	DFK-MSTB 2,5/ 4-G	0707125	50
5	20.00	DFK-MSTB 2,5/ 5-G	0707138	50
6	25.00	DFK-MSTB 2,5/ 6-G	0707141	50
7	30.00	DFK-MSTB 2,5/ 7-G	0707154	50
8	35.00	DFK-MSTB 2,5/ 8-G	0707060	50
9	40.00	DFK-MSTB 2,5/ 9-G	0707167	50
10	45.00	DFK-MSTB 2,5/10-G	0707170	50
11	50.00	DFK-MSTB 2,5/11-G	0707183	50
12	55.00	DFK-MSTB 2,5/12-G	0707196	50
13	60.00	DFK-MSTB 2,5/13-G	0707206	50
14	65.00	DFK-MSTB 2,5/14-G	0707219	50
15	70.00	DFK-MSTB 2,5/15-G	0707222	50
16	75.00	DFK-MSTB 2,5/16-G	0707235	50
		5.08 mm pitch, color: green		
2	5.08	DFK-MSTB 2,5/ 2-G-5,08	0707248	50
3	10.16	DFK-MSTB 2,5/ 3-G-5,08	0707251	50
4	15.24	DFK-MSTB 2,5/ 4-G-5,08	0707264	50
5	20.32	DFK-MSTB 2,5/ 5-G-5,08	0707277	50
6	25.40	DFK-MSTB 2,5/ 6-G-5,08	0707280	50
7	30.48	DFK-MSTB 2,5/ 7-G-5,08	0707293	50
8	35.56	DFK-MSTB 2,5/ 8-G-5,08	0707057	50
9	40.64	DFK-MSTB 2,5/ 9-G-5,08	0707303	50
10	45.72	DFK-MSTB 2,5/10-G-5,08	0707316	50
11	50.80	DFK-MSTB 2,5/11-G-5,08	0707329	50
12	55.88	DFK-MSTB 2,5/12-G-5,08	0707332	50
13	60.96	DFK-MSTB 2,5/13-G-5,08	0707345	50
14	66.04	DFK-MSTB 2,5/14-G-5,08	0707358	50
15	71.12	DFK-MSTB 2,5/15-G-5,08	0707361	50
16	76.20	DFK-MSTB 2,5/16-G-5,08	0707374	50

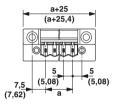


For housing walls 0.5 to 4 mm thick, with threaded flange



Dimensional drawing





Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
DFK-MSTB 2,5/ 2-GF	0710028	50
DFK-MSTB 2,5/ 3-GF	0710031	50
DFK-MSTB 2,5/ 4-GF	0710044	50
DFK-MSTB 2,5/ 5-GF	0710057	1
DFK-MSTB 2,5/ 6-GF	0710060	50
DFK-MSTB 2,5/ 7-GF	0710073	50
DFK-MSTB 2,5/ 8-GF	0710086	50
DFK-MSTB 2,5/ 9-GF	0710099	50
DFK-MSTB 2,5/10-GF	0710109	50
DFK-MSTB 2,5/11-GF	0710112	50
DFK-MSTB 2,5/12-GF	0710125	50
DFK-MSTB 2,5/13-GF	0710138	50
DFK-MSTB 2,5/14-GF	0710141	50
DFK-MSTB 2,5/15-GF	0710154	50
DFK-MSTB 2,5/16-GF	0710167	50
5.08 mm pitch, color: green		
DFK-MSTB 2,5/ 2-GF-5,08	0710170	50
DFK-MSTB 2,5/ 3-GF-5,08	0710183	50
DFK-MSTB 2,5/ 4-GF-5,08	0710196	50
DFK-MSTB 2,5/ 5-GF-5,08	0710206	50
DFK-MSTB 2,5/ 6-GF-5,08	0710219	50
DFK-MSTB 2,5/ 7-GF-5,08	0710222	50
DFK-MSTB 2,5/ 8-GF-5,08	0710235	50
DFK-MSTB 2,5/ 9-GF-5,08	0710248	50
DFK-MSTB 2,5/10-GF-5,08	0710251	50
DFK-MSTB 2,5/11-GF-5,08	0710264	50
DFK-MSTB 2,5/12-GF-5,08	0710277	50
DFK-MSTB 2,5/13-GF-5,08	0710280	50
DFK-MSTB 2,5/14-GF-5,08	0710293	50
DFK-MSTB 2,5/15-GF-5,08	0710303	50
DFK-MSTB 2,5/16-GF-5,08	0710316	50

Classic plug-in connector with 5.0 to 7.62 mm pitch

Special types

Feed-through housing



- Header for assembly in a device/housing
- External connection for the corresponding MSTB 2,5 or FKC 2,5 plugs
- With horizontal or vertical solder connection inside
- Installation from the inside of the device through the housing panel
- Sealing the inside of the housing against dust using the enclosed seal

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

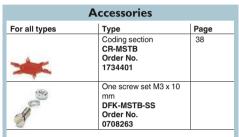
COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.

For cutout dimensions see page 838.

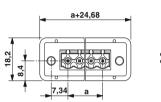


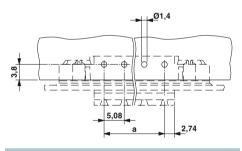
Plug-in direction parallel to the PCB



CB CB

Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

12	
320	
5.08	
III/2	11/2
320	400
4	4
С	D
-	300
-	15
-	-
С	D
-	-
-	-
-	-
PBT / Illa	
V0	
	320 5.08 III / 2 320 4 C C - PBT / IIIa

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
DFK-MSTBA 2,5/ 2-G-5,08	1898839	50	
DFK-MSTBA 2,5/ 3-G-5,08	1898842	50	
DFK-MSTBA 2,5/ 4-G-5,08	1898855	50	
DFK-MSTBA 2,5/ 5-G-5,08	1898868	50	
DFK-MSTBA 2,5/ 6-G-5,08	1898871	50	
DFK-MSTBA 2,5/ 7-G-5,08	1898884	50	
DFK-MSTBA 2,5/ 8-G-5,08	1898897	50	
DFK-MSTBA 2,5/ 9-G-5,08	1898907	50	
DFK-MSTBA 2,5/10-G-5,08	1898910	50	
DFK-MSTBA 2,5/11-G-5,08	1898923	50	
DFK-MSTBA 2,5/12-G-5,08	1898936	50	
DFK-MSTBA 2,5/13-G-5,08	1898949	50	
DFK-MSTBA 2,5/14-G-5,08	1898952	50	
DFK-MSTBA 2,5/15-G-5,08	1898965	50	
DFK-MSTBA 2,5/16-G-5,08	1898978	50	

Special types



With threaded flange, plug-in direction parallel to the PCB



Plug-in direction vertical to the PCB



With threaded flange, plug-in direction vertical to the PCB

CB CB

Dimensional drawing

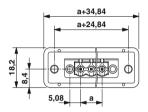


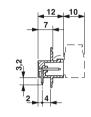


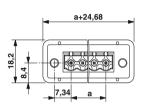
Dimensional drawing

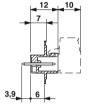


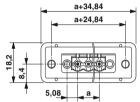
Dimensional drawing

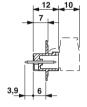








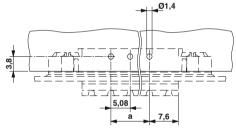




Drilling diagram

Drilling diagram

Drilling diagram





1899113

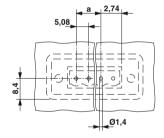
1899126

50

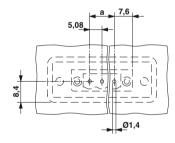
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DFK-MSTBA 2,5/15-GF-5,08

DFK-MSTBA 2,5/16-GF-5,08



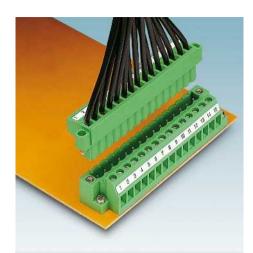
Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
DFK-MSTBVA 2,5/ 2-G-5,08	1899139	50
DFK-MSTBVA 2,5/ 3-G-5,08	1899142	50
DFK-MSTBVA 2,5/ 4-G-5,08	1899155	50
DFK-MSTBVA 2,5/ 5-G-5,08	1899168	50
DFK-MSTBVA 2,5/ 6-G-5,08	1899171	50
DFK-MSTBVA 2,5/ 7-G-5,08	1899184	50
DFK-MSTBVA 2,5/ 8-G-5,08	1899197	50
DFK-MSTBVA 2,5/ 9-G-5,08	1899207	50
DFK-MSTBVA 2,5/10-G-5,08	1899210	50
DFK-MSTBVA 2,5/11-G-5,08	1899223	50
DFK-MSTBVA 2,5/12-G-5,08	1899236	50
DFK-MSTBVA 2,5/13-G-5,08	1899249	50
DFK-MSTBVA 2,5/14-G-5,08	1899252	50
DFK-MSTBVA 2,5/15-G-5,08	1899265	50
DFK-MSTBVA 2,5/16-G-5,08	1899278	50



Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
DFK-MSTBVA 2,5/ 2-GF-5,08	1899281	50
DFK-MSTBVA 2,5/ 3-GF-5,08	1899294	50
DFK-MSTBVA 2,5/ 4-GF-5,08	1899304	50
DFK-MSTBVA 2,5/ 5-GF-5,08	1899317	50
DFK-MSTBVA 2,5/ 6-GF-5,08	1899320	50
DFK-MSTBVA 2,5/ 7-GF-5,08	1899333	50
DFK-MSTBVA 2,5/ 8-GF-5,08	1899346	50
DFK-MSTBVA 2,5/ 9-GF-5,08	1899359	50
DFK-MSTBVA 2,5/10-GF-5,08	1899362	50
DFK-MSTBVA 2,5/11-GF-5,08	1899375	50
DFK-MSTBVA 2,5/12-GF-5,08	1899388	50
DFK-MSTBVA 2,5/13-GF-5,08	1899391	50
DFK-MSTBVA 2,5/14-GF-5,08	1899401	50
DFK-MSTBVA 2,5/15-GF-5,08	1899414	50
DFK-MSTBVA 2,5/16-GF-5,08	1899427	50

Special types

Plug-in blocks for direct mounting



- Direct plug-in blocks with mounting flanges for screw connection on mounting plates or unit housings
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

MVSTBU 2,5/...-G(F)B

- With vertical plug-in direction
- Versions with and without a threaded flange

MSTBU 2,5/...-STD-5,08

- Touch-proof connection block in combination with IC 2,5/...-ST-5,08, see page 272

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 259.



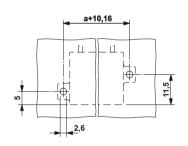
With socket contacts and flange for direct mounting

€ .**\$1** us € CB.

Accessories For all types Туре Page Marker cards SK 5,08/3,8 798 Coding section 38 CR-MŠTB Order No. 1734401 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Insertion bridge 829 EBP...- 5

25.5 4,18 5.08

Dimensional drawing



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [n	nm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the	ne same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material g	group
Inflammability class according to UL 94	

	12/2.5	
	320	
	5.08	
0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 12
	0.25 - 2.5	
	0.25 - 2.5	
0.0	- 1 / 0.2 -	1 5
0.2	0.25 - 1	1.5
	0.25 - 1	
	0.5 - 1	
III/3	III/2	II / 2
320	320	630
4	4	4
В	С	D
250	-	300
12	-	10
30 - 12	-	30 - 12
В	С	D
300	-	300
10	-	10
28 - 12	-	28 - 12
	7	
	M3	
-	0.5 - 0.6	
	PA/I V0	
	VÜ	

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
MSTBU 2,5/ 2-STD-5,08	1824120	50
MSTBU 2,5/ 3-STD-5,08	1824133	50
MSTBU 2,5/ 4-STD-5,08	1824146	50
MSTBU 2,5/ 5-STD-5,08	1824159	50
MSTBU 2,5/ 6-STD-5,08	1824162	50
MSTBU 2,5/ 7-STD-5,08	1824175	50
MSTBU 2,5/ 8-STD-5,08	1824188	50
MSTBU 2,5/ 9-STD-5,08	1824191	50
MSTBU 2,5/10-STD-5,08	1824201	50
MSTBU 2,5/11-STD-5,08	1824214	50
MSTBU 2,5/12-STD-5,08	1824227	50
MSTBU 2,5/13-STD-5,08	1824230	50
MSTBU 2,5/14-STD-5,08	1824243	50
MSTBU 2,5/15-STD-5,08	1824256	50
MSTBU 2,5/16-STD-5,08	1824269	50



With pin contacts and flange for direct mounting

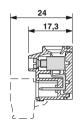


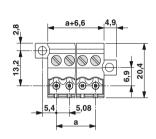
With pin contacts, screw flange and flange for direct mounting

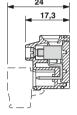
(CB scheme

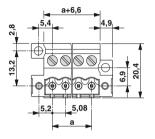
Dimensional drawing





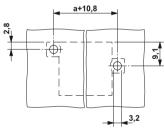


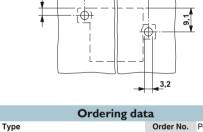




Drilling diagram

Drilling diagram





Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
MVSTBU 2,5/ 2-GB-5,08	1788538	50	
MVSTBU 2,5/ 3-GB-5,08	1788541	50	
MVSTBU 2,5/ 4-GB-5,08	1788554	50	
MVSTBU 2,5/ 5-GB-5,08	1788567	50	
MVSTBU 2,5/ 6-GB-5,08	1788570	50	
MVSTBU 2,5/ 7-GB-5,08	1788583	50	
MVSTBU 2,5/ 8-GB-5,08	1788596	50	
MVSTBU 2,5/ 9-GB-5,08	1788606	50	
MVSTBU 2,5/10-GB-5,08	1788619	50	
MVSTBU 2,5/11-GB-5,08	1788622	50	
MVSTBU 2,5/12-GB-5,08	1788635	50	
MVSTBU 2,5/13-GB-5,08	1788648	50	
MVSTBU 2,5/14-GB-5,08	1788651	50	

1788664

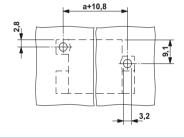
1788677

50

50

MVSTBU 2,5/15-GB-5,08

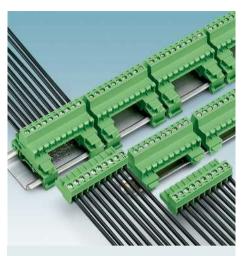
MVSTBU 2,5/16-GB-5,08



Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
MVSTBU 2,5/ 2-GFB-5,08	1788347	50
MVSTBU 2,5/ 3-GFB-5,08	1788350	50
MVSTBU 2,5/ 4-GFB-5,08	1788363	50
MVSTBU 2,5/ 5-GFB-5,08	1788376	50
MVSTBU 2,5/ 6-GFB-5,08	1788389	50
MVSTBU 2,5/ 7-GFB-5,08	1788392	50
MVSTBU 2,5/ 8-GFB-5,08	1788402	50
MVSTBU 2,5/ 9-GFB-5,08	1788415	50
MVSTBU 2,5/10-GFB-5,08	1788428	50
MVSTBU 2,5/11-GFB-5,08	1788431	50
MVSTBU 2,5/12-GFB-5,08	1788444	50
MVSTBU 2,5/13-GFB-5,08	1788457	50
MVSTBU 2,5/14-GFB-5,08	1788460	50
MVSTBU 2,5/15-GFB-5,08	1788473	50
MVSTBU 2,5/16-GFB-5,08	1788486	50

Special types

Plug-in blocks for rail mounting



- MSTBVK 2,5 with foot element for mounting on the 15 x 5 mm DIN rail (NS15) in accordance with ÈN 60715-TH15
- UMSTBHK 2,5 with universal foot for mounting on NS 32 or NS 35 DIN rails
- Can be combined with plugs: MSTB(P) 2.5/...-ST... FRONT-MSTB 2,5/...-ST... FKC(S) 2,5/...-ST... FKCN 2,5/...-ST... FKCVR 2,5/...-ST... ICV 2,5/...-G...

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

For DIN rails, see Catalog 5.



Inverted plug with screw connection for mounting on NS 15 DIN rail

€ .**\$1** us € CB.

Accessories		
For all types	Туре	Page
	Coding tab MSTB-BL Order No. 1755477	837
8	Locking for MSTB plugs, 9.9 mm width MSTBHK 2,5/2-AH Order No. 5030185	
1	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
Only for MSTBHK 2,5/10)-G	
7-7	End clamp E/MBK Order No. 1401637	
Only for UMSTBHK 2,5/	10-G	
	End clamp E/UK Order No. 1201442	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²
Rated insulation voltage for pollution degree 2	[V
Pitch	[mm
Connection capacity	
Solid / stranded [n	nm ²] / [mm ²] / AWC
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with ferrules with plastic sleeve	[mm²
Multi-conductor connection capacity (two conductors with the	e same cross section)
Solid / stranded	[mm²
Stranded with ferrules without plastic sleeve	[mm²
Stranded with TWIN ferrule with plastic sleeve	[mm²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWO
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWO
General data	
Stripping length	[mm
Screw thread	
Tightening torque	[Nm
Type of insulation material / insulation material g	jroup
Inflammability class according to UL 94	

	10/05					
	12 / 2.5					
	320					
5/5.08						
3 / 3.06						
02-25	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12					
0.25 - 2.5						
0.25 - 2.5						
0.23 - 2.3						
0.2	- 1 / 0.2 -	1.5				
	0.25 - 1					
	0.5 - 1.5					
III/3	III/2	II / 2				
250	320	630				
4	4	4				
В	С	D				
250	-	300				
12	-	10				
30 - 12	-	30 - 12				
В	С	D				
300	-	300				
10	-	10				
28 - 12	-	28 - 12				
	7					
M3						
0.5 - 0.6						
	PA/I					
	V0					

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
o. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
10	45.00	MSTBHK 2,5/10-G	1765085	50
		5.08 mm pitch, color: green		
10	45.72	MSTBHK 2,5/10-G-5,08	1765030	50



Inverted plug with universal foot for mounting on NS 32 and NS 35



Dimensional drawing

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
UMSTBHK 2,5/10-G	1765768	50

Plug-in blocks for rail mounting



- Can be combined with COMBICON plugs with 5.08 mm grid
- Versions with and without a threaded
- Higher numbers of positions up to 24-pos. can be found at: www.phoenixcontact.net/products

MSTBVK 2,5/...-G(F)-5,08

- With a foot element for mounting on a 15 x 5 mm DIN rail (NS 15) acc. to EN 60715-TH15

UMSTBVK 2,5/...-G(F)-5,08

NS 32 or NS 35 DIN rails

Notes:

For all types

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

Accessories

Marker cards SK 5,08/3,8

Coding section

Screwdriver SZS 0,6 x 3,5

CR-MSTB

Order No. 1734401

Order No. 1205053

Coding tab MSTB-BL Order No.

1755477

Insertion bridge EBP...- 5

Туре

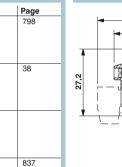
For DIN rails, see Catalog 5.

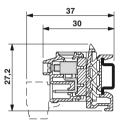


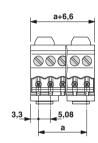
For mounting on NS 15

Dimensional drawing

€ .**\$1** us € CB.







- With universal foot for mounting on

Technical data	
Technical data in accordance to IEC / DIN VDI	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Div.L.	f1
Pitch	[mm]
Connection capacity	21 / 521 / ANNO
	[mm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with	,
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	

	12/2.5	
	320	
	5.08	
0.2 - 2.5	/ 0.2 - 2.5	/ 24 - 12
	0.25 - 2.5	
	0.25 - 2.5	
0.2	2 - 1 / 0.2 -	1.5
	0.25 - 1	
	0.5 - 1.5	
III/3	III/2	11/2
320	320	630
4	4	4
В	С	D
250	-	300
12	-	10
30 - 12	-	30 - 12
В	С	D
300	-	300
10	-	10
28 - 12	-	28 - 12
	_	
	7	
	M3 0.5 - 0.6	
	PA/I	
-	V0	
	٧U	

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

829

Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
MSTBVK 2,5/ 2-G-5,08	1788729	50
MSTBVK 2,5/ 3-G-5,08	1788732	50
MSTBVK 2,5/ 4-G-5,08	1788745	50
MSTBVK 2,5/ 5-G-5,08	1788758	50
MSTBVK 2,5/ 6-G-5,08	1788761	50
MSTBVK 2,5/ 7-G-5,08	1788774	50
MSTBVK 2,5/ 8-G-5,08	1788787	50
MSTBVK 2,5/ 9-G-5,08	1788790	50
MSTBVK 2,5/10-G-5,08	1788800	50
MSTBVK 2,5/11-G-5,08	1788813	50
MSTBVK 2,5/12-G-5,08	1788826	50
MSTBVK 2,5/13-G-5,08	1788839	50
MSTBVK 2,5/14-G-5,08	1788842	50
MSTBVK 2,5/15-G-5,08	1788855	50
MSTBVK 2,5/16-G-5,08	1788868	50
1110 1 12 111 2,07 10 41 0,00	1700000	- 00



With threaded flange for mounting on NS 15



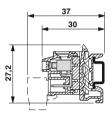
With universal foot for mounting on NS 32 or NS 35

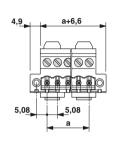


With threaded flange and universal foot for mounting on NS 32 or NS 35

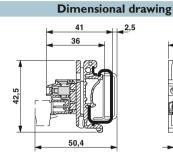
(CB scheme

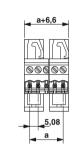
Dimensional drawing



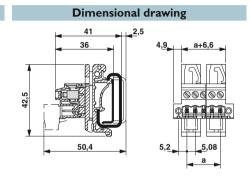


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(CB) us PC ODE CB



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
MSTBVK 2,5/ 2-GF-5,08	1788952	50
MSTBVK 2,5/ 3-GF-5,08	1788965	50
MSTBVK 2,5/ 4-GF-5,08	1788978	50
MSTBVK 2,5/ 5-GF-5,08	1788981	50
MSTBVK 2,5/ 6-GF-5,08	1788994	50
MSTBVK 2,5/ 7-GF-5,08	1789003	50
MSTBVK 2,5/ 8-GF-5,08	1803015	50
MSTBVK 2,5/ 9-GF-5,08	1803028	50
MSTBVK 2,5/10-GF-5,08	1803031	50
MSTBVK 2,5/11-GF-5,08	1803044	50
MSTBVK 2,5/12-GF-5,08	1803057	50
MSTBVK 2,5/13-GF-5,08	1803060	50
MSTBVK 2,5/14-GF-5,08	1803073	50
MSTBVK 2,5/15-GF-5,08	1803086	50
MSTBVK 2,5/16-GF-5,08	1803099	50

Ordering da	ta		
Туре	Order No.	Pcs. / Pkt.	-
5.08 mm pitch, color: green			
UMSTBVK 2,5/ 2-G-5,08	1788114	50	
UMSTBVK 2,5/ 3-G-5,08	1788127	50	
UMSTBVK 2,5/ 4-G-5,08	1788130	50	
UMSTBVK 2,5/ 5-G-5,08	1788143	50	
UMSTBVK 2,5/ 6-G-5,08	1788156	50	
UMSTBVK 2,5/ 7-G-5,08	1788169	50	Ī
UMSTBVK 2,5/ 8-G-5,08	1788172	50	
UMSTBVK 2,5/ 9-G-5,08	1788185	50	
UMSTBVK 2,5/10-G-5,08	1788198	50	
UMSTBVK 2,5/11-G-5,08	1788208	50	
UMSTBVK 2,5/12-G-5,08	1788211	50	
UMSTBVK 2,5/13-G-5,08	1788224	50	
UMSTBVK 2,5/14-G-5,08	1788237	50	
UMSTBVK 2,5/15-G-5,08	1788240	50	
UMSTBVK 2,5/16-G-5,08	1788253	50	Ī

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
UMSTBVK 2,5/ 2-GF-5,08	1787924	50
UMSTBVK 2,5/ 3-GF-5,08	1787937	50
UMSTBVK 2,5/ 4-GF-5,08	1787940	50
UMSTBVK 2,5/ 5-GF-5,08	1787953	50
UMSTBVK 2,5/ 6-GF-5,08	1787966	50
UMSTBVK 2,5/ 7-GF-5,08	1787979	50
UMSTBVK 2,5/ 8-GF-5,08	1787982	50
UMSTBVK 2,5/ 9-GF-5,08	1787995	50
UMSTBVK 2,5/10-GF-5,08	1788004	50
UMSTBVK 2,5/11-GF-5,08	1788017	50
UMSTBVK 2,5/12-GF-5,08	1788020	50
UMSTBVK 2,5/13-GF-5,08	1788033	50
UMSTBVK 2,5/14-GF-5,08	1788046	50
UMSTBVK 2,5/15-GF-5,08	1788059	50
UMSTBVK 2,5/16-GF-5,08	1788062	50

Plug-in blocks for rail mounting



- With universal foot for mounting on NS 32 or NS 35 DIN rails
- Versions with and without a threaded flange
- Can be combined with the following plugs: IC 2,5/...-ST(F)... FKIC 2,5/...-ST(F)... FKICS 2,5/...-ST(F)...

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

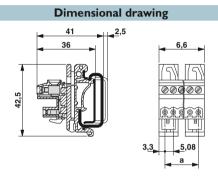
For DIN rails, see Catalog 5.



With universal foot, for mounting on NS 32 or NS 35

(£, ₹1) us (€ 🕰 ÇB.

	Accessories	
For all types	Туре	Page
	Marker cards SK 5,08/3,8	798
*	Coding profile CP-MSTB Order No. 1734634	38
!	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Insertion bridge EBP 5	829



Technical data	
Technical data in accordance to IEC / DIN VE	DE
Rated current / conductor cross section	[A] / [mm²
Rated insulation voltage for pollution degree	2 [V
Pitch	[mm
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWO
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with ferrules with plastic sleeve	[mm²
Multi-conductor connection capacity (two conductors wit	th the same cross section)
Solid / stranded	[mm ²
Stranded with ferrules without plastic sleeve	[mm²
Stranded with TWIN ferrule with plastic sleev	e [mm²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWO
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWO
General data	
Stripping length	[mm
Screw thread	•
Tightening torque	[Nm
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	•

	12/2.5	
	320	
	= 00	
	5.08	
0.0.05		/04 10
0.2 - 2.5	0.2 - 2.5	
	0.25 - 2.5	
	0.25 - 2.5	
0.0	2 - 1 / 0.2 -	1.5
0.2		1.5
-	0.25 - 1 0.5 - 1.5	
	0.5 - 1.5	
III/3	III/2	II / 2
320	320	630
4	4	4
В	C	D.
250		300
12		10
30 - 12	-	30 - 12
В	С	D
300	-	300
10	-	10
28 - 12	-	28 - 12
	7	
	М3	
	0.5 - 0.6	
	PA/I	
	V0	

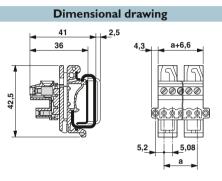
T		
5	Dim. a [mm]	No. of pos.
U	20.32	5
U	25.40	6
U	30.48	7
U	35.56	8
U	40.64	9
U	45.72	10
U	50.80	11
U	55.88	12
U	60.96	13
U	66.04	14
U	71.12	15
U	76.20	16

Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
UMSTBVK 2,5/ 5-ST-5,08	1833849	50
UMSTBVK 2,5/ 6-ST-5,08	1833852	50
UMSTBVK 2,5/ 7-ST-5,08	1833865	50
UMSTBVK 2,5/ 8-ST-5,08	1833878	50
UMSTBVK 2,5/ 9-ST-5,08	1833881	50
UMSTBVK 2,5/10-ST-5,08	1833894	50
UMSTBVK 2,5/11-ST-5,08	1833904	50
UMSTBVK 2,5/12-ST-5,08	1833917	50
UMSTBVK 2,5/13-ST-5,08	1833920	50
UMSTBVK 2,5/14-ST-5,08	1833933	50
UMSTBVK 2,5/15-ST-5,08	1833946	50
UMSTBVK 2,5/16-ST-5,08	1833959	50



With screw flange and universal foot, for mounting on NS 32 or NS 35





Ordering date	ta	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
UMSTBVK 2,5/ 5-STF-5,08	1859205	50
UMSTBVK 2,5/ 6-STF-5,08	1859218	50
UMSTBVK 2,5/ 7-STF-5,08	1859221	50
UMSTBVK 2,5/ 8-STF-5,08	1859234	50
UMSTBVK 2,5/ 9-STF-5,08	1859247	50
UMSTBVK 2,5/10-STF-5,08	1859250	50
UMSTBVK 2,5/11-STF-5,08	1859263	50
UMSTBVK 2,5/12-STF-5,08	1859276	50
UMSTBVK 2,5/13-STF-5,08	1859289	50
UMSTBVK 2,5/14-STF-5,08	1859292	50
UMSTBVK 2,5/15-STF-5,08	1859302	50
UMSTBVK 2,5/16-STF-5,08	1859315	50

ZEC series plug-in connectors make contact directly on the PCB

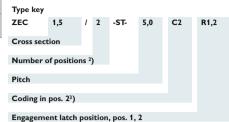


- Contact directly on a 1.6 mm thick PCB without an additional pin strip
- ZEC ST: plug-in connector with springcage connection
- ZEC LPV: plug-in connector for the parallel connection of two PCBs
- A mixture of 3.5/5.0/7.5 mm pitches is possible in one connector
- Larger numbers of positions on request
- Recommended surface for the contact pads: hot air level (HAL) Sn 5 up to 10 μm
- Chamfer in plug area has a positive effect on insertion and withdrawal forces/cycles
- Details about plug-in systems, see page 25

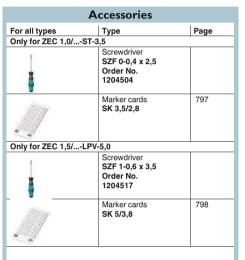
Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

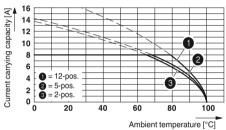
1) Please observe the derating curves. Derating curves for further ZEC connectors on request.



- 2) Number of positions > 12 on request
- 3) Standard:
- C 1 with a 3.5 mm pitch
- C 2 with 5 and 7.5 mm pitch.
- Individual coding on request.



Type: ZEC 1,0/...-ST-3,5 Derating curve, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1 mm² Reduction factor = 0.8 Number of positions = see diagram



Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
	
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	,
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	l group
Inflammability class according to UL 94	-

ZEC 1,0/ST-3,5 C1 R1	ZEC 1,0/LPV-3,5 C	1 ZEC 1,5/ST-5,0 C2 R1,2
8 ¹) / 1	8¹) / 1	101) / 1.5
200	200	320
3.5	3.5	5
0.0 1/0.0 1/04 16		0.0 15/0.0 15/04 10
0.2 - 1 / 0.2 - 1 / 24 - 16	-/-/-	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16 0.25 - 1.5
0.25 - 0.75		0.25 - 1.5
0.25 - 0.75	-	0.25 - 1.5
-/-	-/-	-/-
0.5 - 0.5	_ · · <u> </u>	0.5 - 0.5
0.0 0.0		0.0 0.0
III/3 III/2 II/2	III/3 III/2 II/	2 111/3 111/2 11/2
160 200 320	160 200 32	
2.5 2.5 2.5	2.5 2.5 2	5 4 4 4
B C D	в с п	B C D
150 - 300	150 -	300 - 300
8 - 8	8 -	10 - 10
26 - 16 - 26 - 16		26 - 14 - 26 - 14
B C D	в с п	D B C D
	<u> </u>	<u> </u>
		<u> </u>
7	-	7
PA/I	PA/I	PA/I
V0	V0	V0

No. of pos.	Dim. a [mm]
2	7.00
3	10.50
4	14.00
5	17.50
6	21.00
7	24.50
8	28.00
9	31.50
10	35.00
11	38.50
12	42.00
2	10.00
3 4	15.00
	20.00
5	25.00
6	30.00
7	35.00
8	40.00
9	45.00
10	50.00
11	55.00
12	60.00



Direct plug-in connector with 3.5 mm pitch, plug-in direction parallel to the PCB



PCB connector with 3.5 mm pitch, plug-in direction parallel to the PCB



Direct plug-in connector with 5.0 mm pitch, plug-in direction parallel to the PCB

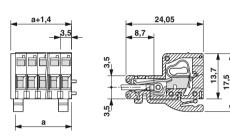
CB CB scheme

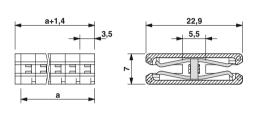
Dimensional drawing





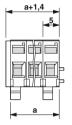
Dimensional drawing

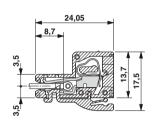




Drilling diagram

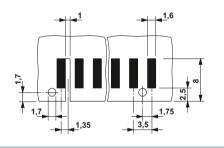
Size of the PCB: 1.6 ± 0.2 mm





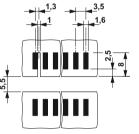
Drilling diagram

Size of the PCB: 1.6 ± 0.2 mm



	3,5
 	
5,5	
Т	

Drilling	ulagraili
Size of the PCB: 1.6 ± 0.2 mm	



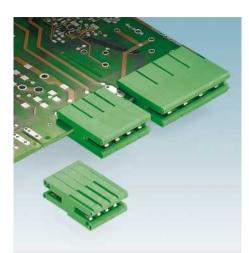
	→ •1	2
1,		30, 20, 80
1,7	5,7	1,9

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Direct plug connector, 3.5 mm pitch, co	olor: green	
ZEC 1,0/ 2-ST-3,5 C1 R1	1893685	50
ZEC 1,0/ 3-ST-3,5 C1 R1,3	1893698	50
ZEC 1,0/ 4-ST-3,5 C1 R1,4	1893708	50
ZEC 1,0/ 5-ST-3,5 C1 R1,5	1893711	50
ZEC 1,0/ 6-ST-3,5 C1 R1,6	1893724	50
ZEC 1,0/ 7-ST-3,5 C1 R1,7	1893737	50
ZEC 1,0/8-ST-3,5 C1 R1,8	1893740	50
ZEC 1,0/ 9-ST-3,5 C1 R1,9	1893753	50
ZEC 1,0/10-ST-3,5 C1 R1,10	1893766	50
ZEC 1,0/11-ST-3,5 C1 R1,11	1893779	50
ZEC 1,0/12-ST-3,5 C1 R1,12	1893782	50

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
PCB connector, 3.5 mm pitch, color: gr	reen	
ZEC 1,0/ 2-LPV-3,5 C1	1915657	50
ZEC 1,0/ 3-LPV-3,5 C1	1915660	50
ZEC 1,0/ 4-LPV-3,5 C1	1915673	50
ZEC 1,0/ 5-LPV-3,5 C1	1915686	50
ZEC 1,0/ 6-LPV-3,5 C1	1915699	50
ZEC 1,0/ 7-LPV-3,5 C1	1915709	50
ZEC 1,0/ 8-LPV-3,5 C1	1915712	50
ZEC 1,0/ 9-LPV-3,5 C1	1915725	50
ZEC 1,0/10-LPV-3,5 C1	1915738	50
ZEC 1,0/11-LPV-3,5 C1	1915741	50
ZEC 1,0/12-LPV-3,5 C1	1915754	50

Ordering of	lata	
Туре	Order No.	Pcs. / Pkt.
Direct plug connector, pitch 5.0 mm	, color: green	
Direct plug connector, pitch 5.0 mm ZEC 1,5/2-ST-5,0 C2 R1,2	, color: green 1883048	50
. •	,	50 50
ZEC 1,5/ 2-ST-5,0 C2 R1,2	1883048	
ZEC 1,5/ 2-ST-5,0 C2 R1,2 ZEC 1,5/ 3-ST-5,0 C2 R1,3	1883048 1883051	50
ZEC 1,5/ 2-ST-5,0 C2 R1,2 ZEC 1,5/ 3-ST-5,0 C2 R1,3 ZEC 1,5/ 4-ST-5,0 C2 R1,4	1883048 1883051 1883064	50 50
ZEC 1,5/2-ST-5,0 C2 R1,2 ZEC 1,5/3-ST-5,0 C2 R1,3 ZEC 1,5/4-ST-5,0 C2 R1,4 ZEC 1,5/5-ST-5,0 C2 R1,5	1883048 1883051 1883064 1883077	50 50 50
ZEC 1,5/2-ST-5,0 C2 R1,2 ZEC 1,5/3-ST-5,0 C2 R1,3 ZEC 1,5/4-ST-5,0 C2 R1,4 ZEC 1,5/5-ST-5,0 C2 R1,5 ZEC 1,5/6-ST-5,0 C2 R1,6	1883048 1883051 1883064 1883077 1883080	50 50 50 50
ZEC 1,5/ 2-ST-5,0 C2 R1,2 ZEC 1,5/ 3-ST-5,0 C2 R1,3 ZEC 1,5/ 4-ST-5,0 C2 R1,4 ZEC 1,5/ 5-ST-5,0 C2 R1,5 ZEC 1,5/ 6-ST-5,0 C2 R1,6 ZEC 1,5/ 7-ST-5,0 C2 R1,7	1883048 1883051 1883064 1883077 1883080 1883093	50 50 50 50 50
ZEC 1,5/ 2-ST-5,0 C2 R1,2 ZEC 1,5/ 3-ST-5,0 C2 R1,3 ZEC 1,5/ 4-ST-5,0 C2 R1,4 ZEC 1,5/ 5-ST-5,0 C2 R1,5 ZEC 1,5/ 6-ST-5,0 C2 R1,6 ZEC 1,5/ 8-ST-5,0 C2 R1,7 ZEC 1,5/ 8-ST-5,0 C2 R1,8	1883048 1883051 1883064 1883077 1883080 1883093 1883103	50 50 50 50 50 50
ZEC 1,5/2-ST-5,0 C2 R1,2 ZEC 1,5/3-ST-5,0 C2 R1,3 ZEC 1,5/4-ST-5,0 C2 R1,4 ZEC 1,5/5-ST-5,0 C2 R1,5 ZEC 1,5/6-ST-5,0 C2 R1,6 ZEC 1,5/7-ST-5,0 C2 R1,7 ZEC 1,5/8-ST-5,0 C2 R1,8 ZEC 1,5/9-ST-5,0 C2 R1,9	1883048 1883051 1883064 1883077 1883080 1883093 1883103 1883116	50 50 50 50 50 50 50 50

ZEC series plug-in connectors make contact directly on the PCB

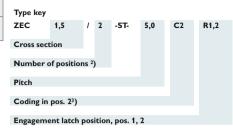


- ZEC...7,5: plug-in connectors for applications with higher voltage
- Contact directly on a 1.6 mm thick PCB without an additional pin strip
- ZEC ST: plug-in connector with springcage connection
- ZEC LPV: plug-in connector for the parallel connection of two PCBs
- A mixture of 3.5/5.0/7.5 mm pitches is possible in one connector
- Recommended surface for the contact pads: hot air level (HAL) Sn 5 up to 10 μm
- Chamfer in plug area has a positive effect on insertion and withdrawal forces/cycles
- Larger numbers of positions on request
- For details about plug-in systems, see page 25

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

1) Please observe the derating curves. Derating curves for further ZEC connectors on request

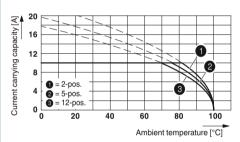


- 2) Number of positions > 12 on request
- 3) Standard:
- C 1 with a 3.5 mm pitch
- C 2 with 5 and 7.5 mm pitch.
- Individual coding on request.



Type: ZEC 1,5/...-ST-7,5

Derating curve, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions = see diagram



Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section [A] / [mm²] Rated insulation voltage for pollution degree 2 [V] Pitch [mm²] Connection capacity Solid / stranded [mm²] / [mm²] / AWC Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded [mm²] Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules without plastic sleeve [mm²] Rated surde vith TWIN ferrule with plastic sleeve [mm²] Rated surge voltage category / pollution degree Rated insulation voltage [k] Approval data (UL/CUL) Use Group Nominal voltage
Rated current / conductor cross section Rated insulation voltage for pollution degree 2 Pitch Connection capacity Solid / stranded Stranded with ferrules without plastic sleeve Stranded with ferrules with plastic sleeve Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded Stranded with ferrules without plastic sleeve Immé Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded Stranded with ferrules without plastic sleeve Immé Stranded with TWIN ferrule with plastic sleeve Inmé Insulation coordination Surge voltage category / pollution degree Rated insulation voltage Rated surge voltage Approval data (UL/CUL) Nominal voltage [Vel Group Nominal voltage [
Rated insulation voltage for pollution degree 2 [V Pitch [mm*] Connection capacity Solid / stranded [mm²] / [mm²] / AWC Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules without plastic sleeve [mm²] Isranded with TWIN ferrule with plastic sleeve [mm²] Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [V Approval data (UL/CUL) Use Group Nominal voltage
Pitch [mm²] / [mm²] / AWC Connection capacity Solid / stranded [mm²] / [mm²] / AWC Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded [mm²] Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules without plastic sleeve [mm²] Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [k] Approval data (UL/CUL) Use Group Nominal voltage
Connection capacity Solid / stranded
Connection capacity Solid / stranded
Solid / stranded [mm²] / [mm²] / AWC Stranded with ferrules without plastic sleeve [mm² Stranded with ferrules with plastic sleeve [mm² Multi-conductor connection capacity (two conductors with the same cross sections) Solid / stranded [mm² Stranded with ferrules without plastic sleeve [mm² Stranded with TWIN ferrule with plastic sleeve [mm² Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [V. Rated surge voltage [k. Approval data (UL/CUL) Use Group Nominal voltage
Stranded with ferrules without plastic sleeve [mmistranded with ferrules with plastic sleeve [mmistranded with ferrules with plastic sleeve [mmistranded with ferrules with plastic sleeve [mmistranded] [mmistranded] with ferrules without plastic sleeve [mmistranded] with ferrules without plastic sleeve [mmistranded] with TWIN ferrule with plastic sleeve [mmistranded] [mmistranded] with TWIN ferrule with plastic sleeve [mmistranded] [mmistranded] with TWIN ferrules with plastic sleeve [mmistranded] [mmi
Stranded with ferrules with plastic sleeve [mmi- Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded [mmi- Stranded with ferrules without plastic sleeve [mmi- Stranded with TWIN ferrule with plastic sleeve [mmi- Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [kv Approval data (UL/CUL) Use Group Nominal voltage [V
Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded [mmi] Stranded with ferrules without plastic sleeve [mmi] Stranded with TWIN ferrule with plastic sleeve [mmi] Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [k] Approval data (UL/CUL) Use Group Nominal voltage
Solid / stranded [mm² Stranded with ferrules without plastic sleeve [mm² Stranded with TWIN ferrule with plastic sleeve [mm² Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [kv Approval data (UL/CUL) Use Group Nominal voltage [v
Stranded with ferrules without plastic sleeve [mm² Stranded with TWIN ferrule with plastic sleeve [mm² Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [kV Approval data (UL/CUL) Use Group Nominal voltage [V V Insulation voltage [V V Insulation voltage V
Stranded with TWIN ferrule with plastic sleeve Immainsulation coordination Surge voltage category / pollution degree Rated insulation voltage Ikv Approval data (UL/CUL) Use Group Nominal voltage IV
Insulation coordination Surge voltage category / pollution degree Rated insulation voltage Rated surge voltage Approval data (UL/CUL) Nominal voltage [V
Surge voltage category / pollution degree Rated insulation voltage [V Rated surge voltage [kV Approval data (UL/CUL) Use Group Nominal voltage [V
Rated insulation voltage [V Rated surge voltage [kV Approval data (UL/CUL) Use Group Nominal voltage [V
Rated surge voltage [kV Approval data (UL/CUL) Use Group Nominal voltage [V
Approval data (UL/CUL) Use Group Nominal voltage [V
Nominal voltage [V
Nominal current [A
Connection capacity AWG AWG
Approval data (CSA) Use Group
Nominal voltage [V
Nominal current [A
Connection capacity AWG AWG
General data
Type of insulation material / insulation material group
Inflammability class according to UL 94

ZEC 1,5/LPV-5,0 C2		ZEC 1,5/ST-7,5 C2 R1,2 ZEC 1,5/LPV-7		7,5 C2					
	10 ¹) / 1.5			101) / 1.5			10¹) / 1.5		
	320			630			630		
	5			7.5		7.5			
	-/-/-		0.2 - 1.5	/ 0.2 - 1.5		-/-/-			
	-			0.25 - 1.5			-		
	-			0.25 - 1.5			-		
	-/-			-/-			-/-		
-			0.5 - 0.5		-				
III/3	III/2	11/2	III/3	III/2	II/2	III/3	III/2	II/2	
250	320	630	400	630	1000	400	630	1000	
4	4	4	6	6	6	6	6	6	
В	С	D	В	С	D	В	С	D	
300	-	300	300	-	300	300	-	300	
10	-	10	10	-	10	10	-	10	
-		-	26 - 14		26 - 14	-	-	-	
В	С	D	В	С	D	В	С	D	
	-	-		-	-		-	-	
	-	-		-	-		-	-	
-	-	-	-	-		-	-	-	
	DA //			D4 (1			DA //		
	PA/I			PA / I	PA/I				
	V0		-	V0			V0		

No. of pos.	Dim. a [mm]
2	10.00
3	15.00
4	20.00
5	25.00
6	30.00
7	35.00
8	40.00
2	15.00
3	22.50
4	30.00
5	37.50
6	45.00
7	52.50
8	60.00
9	67.50
10	75.00
11	82.50
12	90.00



PCB connector with 5.0 mm pitch, plug-in direction parallel to the PCB



Direct plug-in connector with 7.5 mm pitch, plug-in direction parallel to the PCB



PCB connector with 7.5 mm pitch, plug-in direction parallel to the PCB

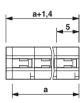


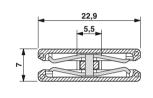
Dimensional drawing

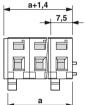


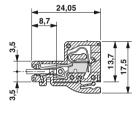


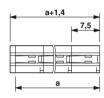
Dimensional drawing

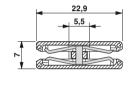






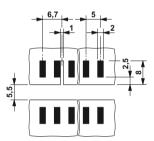






Drilling diagram

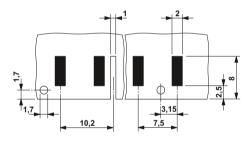
Size of the PCB: 1.6 ± 0.2 mm



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
PCB connector, 5.0 mm pitch, color: gr	reen			
ZEC 1,5/ 2-LPV-5,0 C2	1898266	50		
ZEC 1,5/ 3-LPV-5,0 C2	1898279	50		
ZEC 1,5/ 4-LPV-5,0 C2	1898282	50		
ZEC 1,5/ 5-LPV-5,0 C2	1898295	50		
ZEC 1,5/ 6-LPV-5,0 C2	1898305	50		
ZEC 1,5/ 7-LPV-5,0 C2	1898318	50		
ZEC 1,5/ 8-LPV-5,0 C2	1898321	50		

Drilling diagram

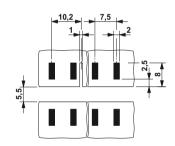
Size of the PCB: 1.6 ± 0.2 mm



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
		_			
Direct plug connector, 7.5 mm pitch, c	olor: green				
ZEC 1,5/ 2-ST-7,5 C2 R1,2	1883145	50			
ZEC 1,5/ 3-ST-7,5 C2 R1,3	1883158	50			
ZEC 1,5/ 4-ST-7,5 C2 R1,4	1883161	50			
ZEC 1,5/ 5-ST-7,5 C2 R1,5	1883174	50			
ZEC 1,5/ 6-ST-7,5 C2 R1,6	1883187	50			
ZEC 1,5/ 7-ST-7,5 C2 R1,7	1883190	50			
ZEC 1,5/ 8-ST-7,5 C2 R1,8	1883200	50			
ZEC 1,5/ 9-ST-7,5 C2 R1,9	1883213	50			
ZEC 1,5/10-ST-7,5 C2 R1,10	1883226	50			
ZEC 1,5/11-ST-7,5 C2 R1,11	1883239	50			
ZEC 1,5/12-ST-7,5 C2 R1,12	1883242	50			

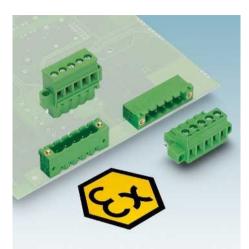
Drilling diagram

Size of the PCB: 1.6 ± 0.2 mm



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
		_		
-				
PCB connector, 7.5 mm pitch, color: g	reen			
ZEC 1,5/ 2-LPV-7,5 C2	1898376	50		
ZEC 1,5/3-LPV-7,5 C2	1898389	50		
ZEC 1,5/ 4-LPV-7,5 C2	1898392	50		
ZEC 1,5/ 5-LPV-7,5 C2	1898402	50		
ZEC 1,5/ 6-LPV-7,5 C2	1898415	50		
ZEC 1,5/7-LPV-7,5 C2	1898428	50		
ZEC 1,5/8-LPV-7,5 C2	1898431	50		
-				

Plugs with screw connection with 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Plug-in direction parallel and vertical to the conductor axis
- Versions with screw flange
- Can be combined with MSTB(V) 2,5/...-GF-5,08 EX
- For more application and installation instructions, please go to the hazardous area section at

www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The maximum torque for the screw flange is 0.3 Nm.

Accessories					
For all types	Туре	Page			
*	Coding profile CP-MSTB Order No. 1734634	38			
	Marker cards SK 5,08/3,8	798			
•	Screwdriver SZS 0,6 x 3,5 Order No. 1205053				
	1				

Technical data				
Ex e terminal blocks as per EN/IEC 60079	-0 and EN/IEN 60079-7			
Ex marking	ATEX-RL / IEC60079-0			
Examination certificate				
IECEx certificate				
Rated voltage	[V]			
Rated current	[A] / [2.5 mm ²]			
Connection capacity				
Solid / stranded	[mm ²]			
Solid / stranded	AWG			
General data				
Stripping length	[mm]			
Screw thread				
Tightening torque	[Nm]			
Type of insulation material / insulation mat	erial group			
Inflammability class according to UL 94				
Drill hole diameter / pin dimensions	[mm]			

MSTB 2,5/STF-5,08 EX	MVSTBR 2,5/STF-5,08 EX	MVSTBW 2,5/STF-5,08 EX
0344€x II 2GD Ex e IIC Gb	0344€x II 2GD Ex e IIC Gb	0344€x II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U	KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx KEM 10.0093U	IECEx KEM 10.0093U	IECEx KEM 10.0093U
176	176	176
12	12	12
0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
- / 24 - 12	-/24 - 12	- / 24 - 12
7	7	7
M3	M3	M3
0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
PA/I	PA / I	PA/I
V0	V0	V0
-/-	-/-	-/-

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88



With screw flange



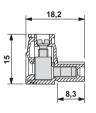
Conductor entry facing coding side, with screw flange

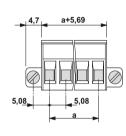


Conductor entry facing the rippled side, with screw flange

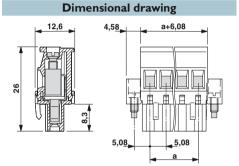


Dimensional drawing

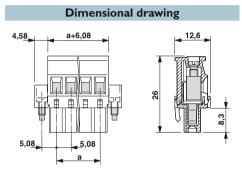




Ex: Ex



Ex: (Ex)



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
MSTB 2,5/ 2-STF-5,08 EX	1795556	50		
MSTB 2,5/ 3-STF-5,08 EX	1795569	50		
MSTB 2,5/ 4-STF-5,08 EX	1795572	50		
MSTB 2,5/ 5-STF-5,08 EX	1795585	50		
MSTB 2,5/ 6-STF-5,08 EX	1795598	50		
MSTB 2,5/ 7-STF-5,08 EX	1795608	50		
MSTB 2,5/ 8-STF-5,08 EX	1795611	50		
MSTB 2,5/ 9-STF-5,08 EX	1795624	50		
MSTB 2,5/10-STF-5,08 EX	1795637	50		
MSTB 2,5/11-STF-5,08 EX	1795640	50		
MSTB 2,5/12-STF-5,08 EX	1795653	50		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
MVSTBR 2,5/ 2-STF-5,08 EX	1809678	50		
MVSTBR 2,5/ 3-STF-5,08 EX	1809681	50		
MVSTBR 2,5/ 4-STF-5,08 EX	1809694	50		
MVSTBR 2,5/ 5-STF-5,08 EX	1809704	50		
MVSTBR 2,5/ 6-STF-5,08 EX	1809717	50		
MVSTBR 2,5/ 7-STF-5,08 EX	1809720	50		
MVSTBR 2,5/ 8-STF-5,08 EX	1809733	50		
MVSTBR 2,5/ 9-STF-5,08 EX	1809746	50		
MVSTBR 2,5/10-STF-5,08 EX	1809759	50		
MVSTBR 2,5/11-STF-5,08 EX	1809762	50		
MVSTBR 2,5/12-STF-5,08 EX	1809775	50		

Ordering data

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
MVSTBW 2,5/ 2-STF-5,08 EX	1809788	50		
MVSTBW 2,5/ 3-STF-5,08 EX	1809791	50		
MVSTBW 2,5/ 4-STF-5,08 EX	1809801	50		
MVSTBW 2,5/ 5-STF-5,08 EX	1809814	50		
MVSTBW 2,5/ 6-STF-5,08 EX	1809827	50		
MVSTBW 2,5/ 7-STF-5,08 EX	1809830	50		
MVSTBW 2,5/ 8-STF-5,08 EX	1809843	50		
MVSTBW 2,5/ 9-STF-5,08 EX	1809856	50		
MVSTBW 2,5/10-STF-5,08 EX	1809869	50		
MVSTBW 2,5/11-STF-5,08 EX	1809872	50		
MVSTBW 2,5/12-STF-5,08 EX	1809885	50		

Plugs with push-in spring connection, 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Plug-in direction parallel to the conductor axis
- Versions with screw flange and self-locking flange

FKC 2,5/...-STF-5,08 EX

- Can be combined with MSTB(V) 2,5/...-GF-5,08 EX

FKC 2,5/...-ST-5,08-RF EX

- Can be combined with MSTB(V)A 2,5/...-G-5,08-RN EX
- For more application and installation instructions, please go to the hazardous area section at

www.phoenixcontact.net/products and see page 40

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The maximum torque for the screw flange is 0.3 Nm.

Accessories			
For all types	Туре	Page	
*	Coding profile CP-MSTB Order No. 1734634	38	
. /	Marker cards SK 5,08/3,8	798	
	Strain relief STZFKC-5,08	837	
NIN THE REAL PROPERTY.	Test plug MPS	831	

Technical data		
Ex e terminal blocks as per EN/IEC 60079-0 and	EN/IEN 60079-7	
Ex marking ATEX	K-RL / IEC60079-0	
Examination certificate		
IECEx certificate		
Rated voltage	[V]	
Rated current	[A] / [2.5 mm ²]	
Connection capacity		
Solid / stranded	[mm ²]	
Solid / stranded	AWG	
General data		
Stripping length	[mm]	
Screw thread		
Tightening torque	[Nm]	
Type of insulation material / insulation material gr	oup	
Inflammability class according to UL 94		
Drill hole diameter / pin dimensions	[mm]	

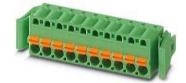
_	_
0344€x II 2GD Ex e IIC Gb	0344€x II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx KEM 10.0093U	IECEx KEM 10.0093U
176	176
12	12
0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
- / 24 - 12	-/24 - 12
10	10
-	-
	-
PA/I	PA/I
V0	V0
-/-	-/-

FKC 2,5/ ...-ST-5,08-RF EX

FKC 2,5/ ...-STF-5,08 EX

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

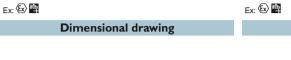


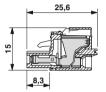


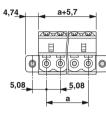
With screw flange

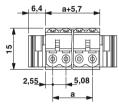
With self-locking flange

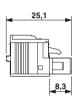
Dimensional drawing







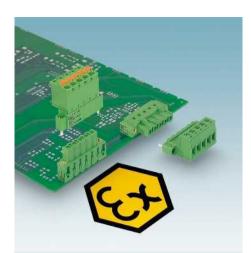




Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.08 mm pitch, color: green				
FKC 2,5/ 2-STF-5,08 EX	1795996	50		
FKC 2,5/ 3-STF-5,08 EX	1796005	50		
FKC 2,5/ 4-STF-5,08 EX	1796018	50		
FKC 2,5/ 5-STF-5,08 EX	1796021	50		
FKC 2,5/ 6-STF-5,08 EX	1796034	50		
FKC 2,5/ 7-STF-5,08 EX	1796047	50		
FKC 2,5/ 8-STF-5,08 EX	1796050	50		
FKC 2,5/ 9-STF-5,08 EX	1796063	50		
FKC 2,5/10-STF-5,08 EX	1796076	50		
FKC 2,5/11-STF-5,08 EX	1796089	50		
FKC 2,5/12-STF-5,08 EX	1796092	50		

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
FKC 2,5/ 2-ST-5,08-RF EX	1796102	50	
FKC 2,5/ 3-ST-5,08-RF EX	1796115	50	
FKC 2,5/ 4-ST-5,08-RF EX	1796128	50	
FKC 2,5/ 5-ST-5,08-RF EX	1796131	50	
FKC 2,5/ 6-ST-5,08-RF EX	1796144	50	
FKC 2,5/ 7-ST-5,08-RF EX	1796157	50	
FKC 2,5/ 8-ST-5,08-RF EX	1796160	50	
FKC 2,5/ 9-ST-5,08-RF EX	1796173	50	
FKC 2,5/10-ST-5,08-RF EX	1796186	50	
FKC 2,5/11-ST-5,08-RF EX	1796199	50	
FKC 2,5/12-ST-5,08-RF EX	1796209	50	

Inverted plugs for the Ex area with 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Plug-in direction parallel to the conductor axis
- Can be combined with IC(V) 2,5/...-GF-5,08 EX
- For more application and installation instructions, please go to the hazardous area section at

www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The maximum torque for the screw flange is 0.3 Nm.

Accessories			
For all types	Туре	Page	
*	Coding profile CP-MSTB Order No. 1734634	38	
· .	Marker cards SK 5,08/3,8	798	
Only for IC 2,5/STF-5	08 EX		
į	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
Only for FKIC 2,5/STF			
	Strain relief STZFKC-5,08	837	
N _I	Test plug MPS	831	

Technical data		
Ex e terminal blocks as per EN/IEC 60079-0 and El	N/IEN 60079-7	
Ex marking ATEX-F	RL / IEC60079-0	
Examination certificate		
IECEx certificate		
Rated voltage	[V]	
Rated current	[A] / [2.5 mm ²]	
Connection capacity		
Solid / stranded	[mm ²]	
Solid / stranded	AWG	
General data		
Stripping length	[mm]	
Screw thread		
Tightening torque	[Nm]	
Type of insulation material / insulation material grou	ıp	
Inflammability class according to UL 94		
Drill hole diameter / pin dimensions	[mm]	

IC 2,5/STF-5,08 EX	FKIC 2,5/STF-5,08 EX
0344€ II 2GD Ex e IIC Gb	0344€x II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx KEM 10.0093U	IECEx KEM 10.0093U
176	176
12	12
0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
-/24 - 12	-/24 - 12
7	10
M3	-
0.5 - 0.6	-
PA/I	PA/I
V0	V0
-/-	-/-

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88







With push-in spring connection and screw flange

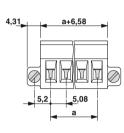
Ex: Ex

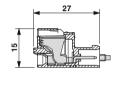


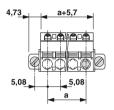
Dimensional drawing







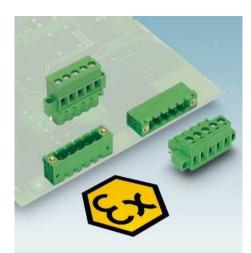




Ordering data			
Order No.	Pcs. / Pkt.		
1810117	50		
1810120	50		
1810133	50		
1810146	50		
1810159	50		
1810162	50		
1810175	50		
1810188	50		
1810191	50		
1810201	50		
1810214	50		
	1810117 1810120 1810133 1810146 1810159 1810162 1810175 1810188 1810191 1810201		

Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
FKIC 2,5/ 2-STF-5,08 EX	1810227	50
FKIC 2,5/ 3-STF-5,08 EX	1810230	50
FKIC 2,5/ 4-STF-5,08 EX	1810243	50
FKIC 2,5/ 5-STF-5,08 EX	1810256	50
FKIC 2,5/ 6-STF-5,08 EX	1810269	50
FKIC 2,5/ 7-STF-5,08 EX	1810272	50
FKIC 2,5/ 8-STF-5,08 EX	1810285	50
FKIC 2,5/ 9-STF-5,08 EX	1810298	50
FKIC 2,5/10-STF-5,08 EX	1810308	50
FKIC 2,5/11-STF-5,08 EX	1810311	50
FKIC 2,5/12-STF-5,08 EX	1810324	50

A header with a 5.08 mm pitch for wave soldering processes



- Hazardous area approval for voltages up to 176 V
- Versions with threaded flange and engagement nose
- For more application and installation instructions, please go to the hazardous area section at

www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

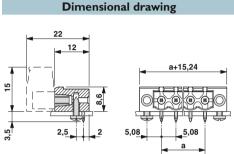
Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.



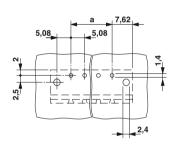
With threaded flange, plug-in direction parallel to the PCB

Ex: Ex

Accessories			
For all types	Туре	Page	
*	Coding section CR-MSTB Order No. 1734401	38	,
4.5	Marker cards SK 5,08/3,8	798	- L
			ε, ισ,



Drilling diagram



Technical data	
Ex e terminal blocks as per EN/IEC 60079-0 ar	nd EN/IEN 60079-7
3	EX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm ²]
Connection capacity	
Solid / stranded	[mm ²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

0344€ II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U
IECEx KEM 10.0093U
176
12
-/-
-/-
-
-
-
PA/I
V0
1.4 / 1 x 1 mm

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
MSTB 2,5/ 2-GF-5,08 EX	1795666	50
MSTB 2,5/ 3-GF-5,08 EX	1795679	50
MSTB 2,5/ 4-GF-5,08 EX	1795682	50
MSTB 2,5/ 5-GF-5,08 EX	1795695	50
MSTB 2,5/ 6-GF-5,08 EX	1795705	50
MSTB 2,5/ 7-GF-5,08 EX	1795718	50
MSTB 2,5/ 8-GF-5,08 EX	1795721	50
MSTB 2,5/ 9-GF-5,08 EX	1795734	50
MSTB 2,5/10-GF-5,08 EX	1795747	50
MSTB 2,5/11-GF-5,08 EX	1795750	50
MSTB 2,5/12-GF-5,08 EX	1795763	50



With engagement noses, plug-in direction parallel to the PCB



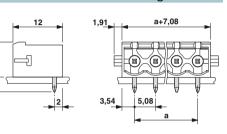
With threaded flange, plug-in direction vertical to the PCB



With engagement noses, plug-in direction vertical to the PCB

Ex: Ex

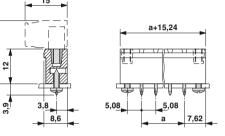
Dimensional drawing



Ex: 🔯 🖺

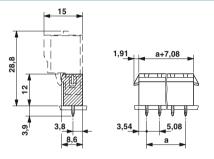
22





Ex: Ex

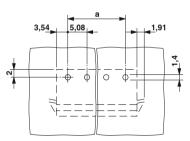




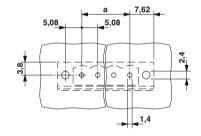
Drilling diagram

Drilling diagram

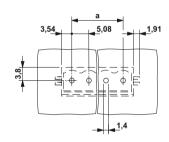
Drilling diagram





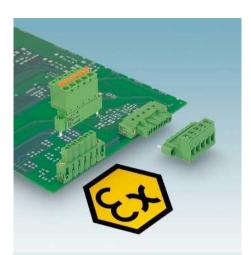


Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
MSTBV 2,5/ 2-GF-5,08 EX	1796322	50
MSTBV 2,5/ 3-GF-5,08 EX	1796335	50
MSTBV 2,5/ 4-GF-5,08 EX	1796348	50
MSTBV 2,5/ 5-GF-5,08 EX	1796351	50
MSTBV 2,5/ 6-GF-5,08 EX	1796364	50
MSTBV 2,5/ 7-GF-5,08 EX	1796377	50
MSTBV 2,5/ 8-GF-5,08 EX	1796380	50
MSTBV 2,5/ 9-GF-5,08 EX	1796393	50
MSTBV 2,5/10-GF-5,08 EX	1796403	50
MSTBV 2,5/11-GF-5,08 EX	1796416	50
MSTBV 2,5/12-GF-5,08 EX	1796429	50



	Ordering data		
t.	Туре	Order No.	Pcs. / Pkt
	5.08 mm pitch, color: green		
	MSTBVA 2,5/ 2-G-5,08-RN EX	1796555	50
	MSTBVA 2,5/ 3-G-5,08-RN EX	1796568	50
	MSTBVA 2,5/ 4-G-5,08-RN EX	1796571	50
	MSTBVA 2,5/ 5-G-5,08-RN EX	1796584	50
	MSTBVA 2,5/ 6-G-5,08-RN EX	1796597	50
	MSTBVA 2,5/ 7-G-5,08-RN EX	1796607	50
	MSTBVA 2,5/ 8-G-5,08-RN EX	1796610	50
	MSTBVA 2,5/ 9-G-5,08-RN EX	1796623	50
	MSTBVA 2,5/10-G-5,08-RN EX	1796636	50
	MSTBVA 2,5/11-G-5,08-RN EX	1796649	50
	MSTBVA 2,5/12-G-5,08-RN EX	1796652	50

Inverted headers for wave soldering processes with 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Headers for wave soldering processes
- For more application and installation instructions, please go to the hazardous area section at

www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST2,2x6,5 C or ISO 7049-ST2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories			
For all types	Туре	Page	
*	Coding profile CP-MSTB Order No. 1734634	38	
• •	Marker cards SK 5,08/3,8	798	
	Reducing plug RPS Order No. 0201647	831	
Mul	Test plug MPS	831	

Technical data		
Ex e terminal blocks as per EN/IEC 60079-0 and	EN/IEN 60079-7	
Ex marking ATEX	K-RL / IEC60079-0	
Examination certificate		
IECEx certificate		
Rated voltage	[V]	
Rated current	[A] / [2.5 mm ²]	
Connection capacity		
Solid / stranded	[mm ²]	
Solid / stranded	AWG	
General data		
Stripping length	[mm]	
Screw thread		
Tightening torque	[Nm]	
Type of insulation material / insulation material gr	roup	
Inflammability class according to UL 94		
Drill hole diameter / pin dimensions	[mm]	

IC 2,5/GF-5,08 EX	ICV 2,5/GF-5,08 EX
0344 Il 2GD Ex e IIC Gb KEMA 10ATEX0196 U	0344 II 2GD Ex e IIC Gb
IECEx KEM 10.0093U	IECEx KEM 10.0093U
176	176
12	12
-/-	-/-
-/-	-/-
-	-
-	-
	-
PA/I	PA/I
V0	V0
1.4 / 1.2 x 0.5	1.4 / 1.2 x 0.5

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88



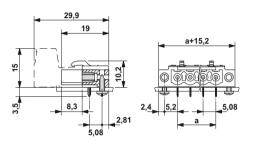
With threaded flange, plug-in direction parallel to the PCB



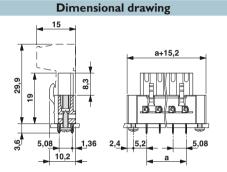
With threaded flange, plug-in direction vertical to the PCB

Ex: Ex

Dimensional drawing

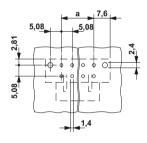


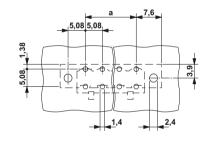
Ex: Ex



Drilling diagram



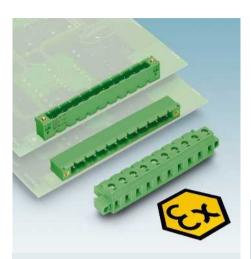




Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
IC 2,5/ 2-GF-5,08 EX	1810337	50	
IC 2,5/ 3-GF-5,08 EX	1810340	50	
IC 2,5/ 4-GF-5,08 EX	1810353	50	
IC 2,5/ 5-GF-5,08 EX	1810366	50	
IC 2,5/ 6-GF-5,08 EX	1810379	50	
IC 2,5/ 7-GF-5,08 EX	1810382	50	
IC 2,5/ 8-GF-5,08 EX	1810395	50	
IC 2,5/ 9-GF-5,08 EX	1810405	50	
IC 2,5/10-GF-5,08 EX	1810418	50	
IC 2,5/11-GF-5,08 EX	1810421	50	
IC 2,5/12-GF-5,08 EX	1810434	50	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
ICV 2,5/ 2-GF-5,08 EX	1810447	50	
ICV 2,5/ 3-GF-5,08 EX	1810450	50	
ICV 2,5/ 4-GF-5,08 EX	1810463	50	
ICV 2,5/ 5-GF-5,08 EX	1810476	50	
ICV 2,5/ 6-GF-5,08 EX	1810489	50	
ICV 2,5/ 7-GF-5,08 EX	1810492	50	
ICV 2,5/ 8-GF-5,08 EX	1810502	50	
ICV 2,5/ 9-GF-5,08 EX	1810515	50	
ICV 2,5/10-GF-5,08 EX	1810528	50	
ICV 2,5/11-GF-5,08 EX	1810531	50	
ICV 2,5/12-GF-5,08 EX	1810544	50	

Plugs with screw connection with 7.62 mm pitch



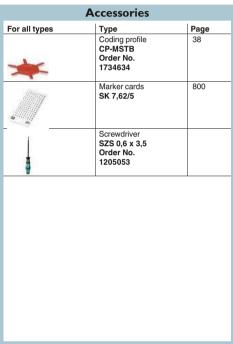
- Ex approval for voltages up to 352 V
- Plug-in direction parallel to the conductor axis
- Can be combined with GMSTB(V) 2,5/...-GF-5,08 EX
- For more application and installation instructions, please go to the hazardous area section at

www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The maximum torque for the screw flange is 0.3 Nm.



Technical d	lata
Ex e terminal blocks as per EN/IEC 600	79-0 and EN/IEN 60079-7
Ex marking	ATEX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm ²]
Connection capacity	
Solid / stranded	[mm ²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation m	naterial group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

GMSTB 2,5/STF-7,62 EX	GMVSTBR 2,5/STF-7,62 EX	GMVSTBW 2,5/STF-7,62 EX
0344€x II 2GD Ex e IIC Gb	0344€x II 2GD Ex e IIC Gb	0344€x II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U	KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx KEM 10.0093U	IECEx KEM 10.0093U	IECEx KEM 10.0093U
352	352	352
12	12	12
0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
- / 24 - 12	- / 24 - 12	- / 24 - 12
7	7	7
M3	M3	M3
0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
PA/I	PA / I	PA/I
V0	V0	V0
-/-	-/-	-/-

No.	of pos.	Dim. a [mm]
	2	7.62
	3	15.24
	4	22.86
	5	30.48
	6	38.10
	7	45.72
	8	53.34
	9	60.96
	10	68.58
	11	76.20
	12	83.82



With screw flange

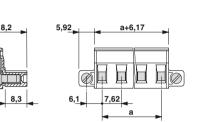


Conductor entry facing coding side, with screw flange

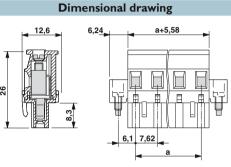


Conductor entry facing the rippled side, with screw flange

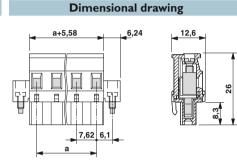
Ex: Ex **Dimensional drawing**



Ex: Ex



Ex: (Ex)

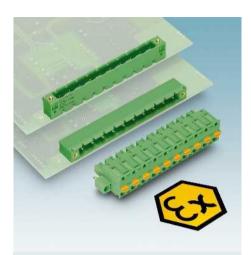


Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GMSTB 2,5/ 2-STF-7,62 EX	1795776	50
GMSTB 2,5/ 3-STF-7,62 EX	1795789	50
GMSTB 2,5/ 4-STF-7,62 EX	1795792	50
GMSTB 2,5/ 5-STF-7,62 EX	1795802	50
GMSTB 2,5/ 6-STF-7,62 EX	1795815	50
GMSTB 2,5/ 7-STF-7,62 EX	1795828	50
GMSTB 2,5/ 8-STF-7,62 EX	1795831	50
GMSTB 2,5/ 9-STF-7,62 EX	1795844	50
GMSTB 2,5/10-STF-7,62 EX	1795857	50
GMSTB 2,5/11-STF-7,62 EX	1795860	50
GMSTB 2,5/12-STF-7,62 EX	1795873	50

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GMVSTBR 2,5/ 2-STF-7,62 EX	1809898	50
GMVSTBR 2,5/ 3-STF-7,62 EX	1809908	50
GMVSTBR 2,5/ 4-STF-7,62 EX	1809911	50
GMVSTBR 2,5/ 5-STF-7,62 EX	1809924	50
GMVSTBR 2,5/ 6-STF-7,62 EX	1809937	50
GMVSTBR 2,5/ 7-STF-7,62 EX	1809940	50
GMVSTBR 2,5/ 8-STF-7,62 EX	1809953	50
GMVSTBR 2,5/ 9-STF-7,62 EX	1809966	50
GMVSTBR 2,5/10-STF-7,62 EX	1809979	50
GMVSTBR 2,5/11-STF-7,62 EX	1809982	50
GMVSTBR 2,5/12-STF-7,62 EX	1809995	50

Ordering data		
Type Order No.		Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GMVSTBW 2,5/ 2-STF-7,62 EX	1810007	50
GMVSTBW 2,5/ 3-STF-7,62 EX	1810010	50
GMVSTBW 2,5/ 4-STF-7,62 EX	1810023	50
GMVSTBW 2,5/ 5-STF-7,62 EX	1810036	50
GMVSTBW 2,5/ 6-STF-7,62 EX	1810049	50
GMVSTBW 2,5/ 7-STF-7,62 EX	1810052	50
GMVSTBW 2,5/ 8-STF-7,62 EX	1810065	50
GMVSTBW 2,5/ 9-STF-7,62 EX	1810078	50
GMVSTBW 2,5/10-STF-7,62 EX	1810081	50
GMVSTBW 2,5/11-STF-7,62 EX	1810094	50
GMVSTBW 2,5/12-STF-7,62 EX	1810104	50

Plugs with push-in spring connection, 7.62 mm pitch



- Ex approval for voltages up to 352 V
- Plug-in direction parallel to the conductor axis
- Can be combined with GMSTB(V) 2,5/...-GF-5,08 EX
- Further application and installation instructions for plug-in connectors for the Ex area can be found online at www.phoenixcontact.net/products and on page 40

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The maximum torque for the screw flange is 0.3 Nm.

Accessories		
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
· /	Marker cards SK 7,62/5	800
N _M	Test plug MPS	831

Technical data

Ex e terminal blocks as per EN/IEC 60079-0 an	d EN/IEN 60079-7
Ex marking ATE	EX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm ²]
Connection capacity	
Solid / stranded	[mm ²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

0344€ II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U
IECEx KEM 10.0093U
352
12
0.2 - 2.5 / 0.2 - 2.5
- / 24 - 12
10
-
-
PA/I
V0
-/-

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

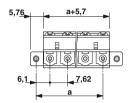


With screw flange



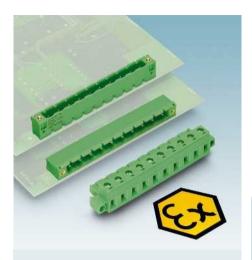
Dimensional drawing





Ordering data								
Туре	Order No.	Pcs. / Pkt.						
Pitch 7.62 mm, color: green								
GFKC 2,5/ 2-STF-7,62 EX	1796212	50						
GFKC 2,5/ 3-STF-7,62 EX	1796225	50						
GFKC 2,5/ 4-STF-7,62 EX	1796238	50						
GFKC 2,5/ 5-STF-7,62 EX	1796241	50						
GFKC 2,5/ 6-STF-7,62 EX	1796254	50						
GFKC 2,5/ 7-STF-7,62 EX	1796267	50						
GFKC 2,5/ 8-STF-7,62 EX	1796270	50						
GFKC 2,5/ 9-STF-7,62 EX	1796283	50						
GFKC 2,5/10-STF-7,62 EX	1796296	50						
GFKC 2,5/11-STF-7,62 EX	1796306	50						
GFKC 2,5/12-STF-7,62 EX	1796319	50						

Headers with a 7.62 mm pitch for wave soldering processes



- Ex approval for voltages up to 352 V - For more application and installation in-
- structions, please go to the hazardous area section at
- www.phoenixcontact.net/products and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories						
For all types	Туре	Page				
*	Coding section CR-MSTB Order No. 1734401	38				
/	Marker cards SK 7,62/5	800				

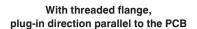
Technical data	
Ex e terminal blocks as per EN/IEC 60079-0 a	and EN/IEN 60079-7
Ex marking A	TEX-RL / IEC60079-0
Examination certificate	
IECEx certificate	
Rated voltage	[V]
Rated current	[A] / [2.5 mm ²]
Connection capacity	
Solid / stranded	[mm ²]
Solid / stranded	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

GINIOTE 2,5/GI -7,02 EX	GINIOTEV 2,5/GI -7,02 EX
0344€ II 2GD Ex e IIC Gb	0344 ऒ II 2GD Ex e IIC Gb
KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx KEM 10.0093U	IECEx KEM 10.0093U
352	352
12	12
-/-	-/-
-/-	-/-
-	-
-	-
-	-
PA/I	PA/I
V0	V0
1.4 / 1 x 1 mm	1.4 / 1 x 1 mm

GMSTB 2.5/ ...-GF-7.62 EX GMSTBV 2.5/ ...-GF-7.62 EX

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

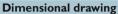




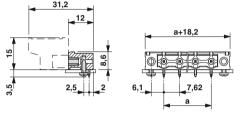


With threaded flange, plug-in direction vertical to the PCB

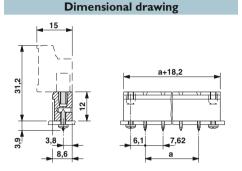
Ex: Ex





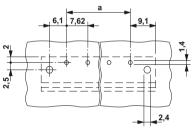


Ex: 🔯 🖺

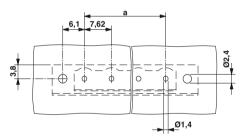


Drilling diagram

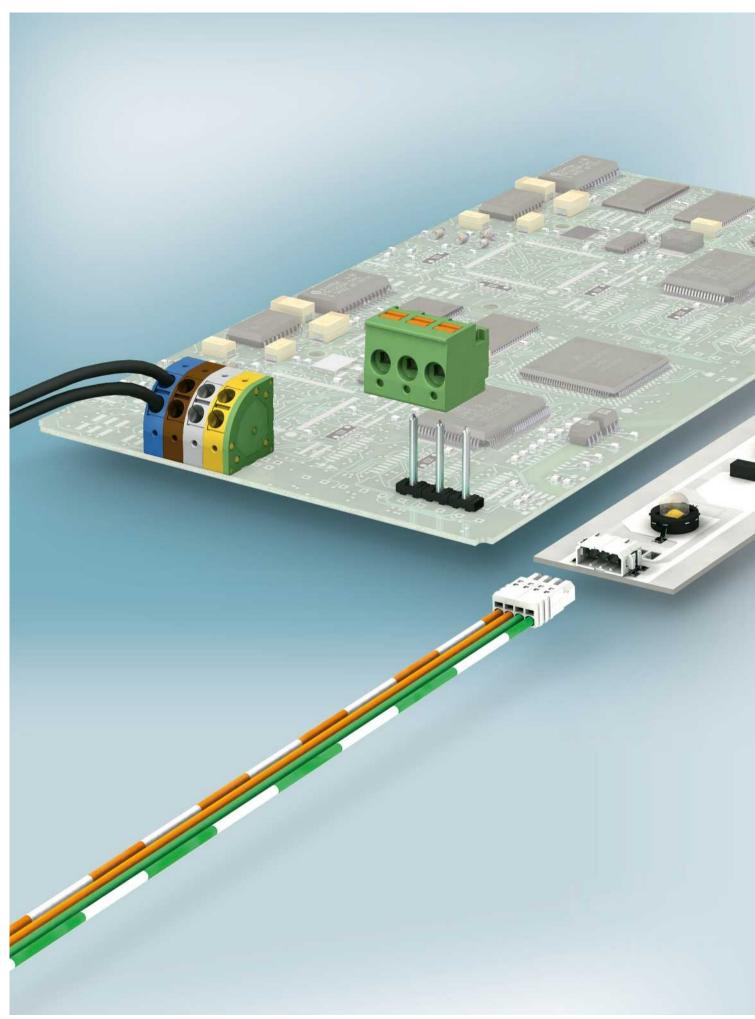
Drilling diagram







Ordering data								
Туре	Order No.	Pcs. / Pkt.						
Pitch 7.62 mm, color: green								
GMSTBV 2,5/ 2-GF-7,62 EX	1796665	50						
GMSTBV 2,5/ 3-GF-7,62 EX	1796678	50						
GMSTBV 2,5/ 4-GF-7,62 EX	1796681	50						
GMSTBV 2,5/ 5-GF-7,62 EX	1796694	50						
GMSTBV 2,5/ 6-GF-7,62 EX	1796704	50						
GMSTBV 2,5/ 7-GF-7,62 EX	1796717	50						
GMSTBV 2,5/ 8-GF-7,62 EX	1796720	50						
GMSTBV 2,5/ 9-GF-7,62 EX	1796733	50						
GMSTBV 2,5/10-GF-7,62 EX	1796746	50						
GMSTBV 2,5/11-GF-7,62 EX	1796759	50						
GMSTBV 2,5/12-GF-7,62 EX	1796762	50						



Small, powerful and in the typical

The COMBICON compact series consists of solutions featuring spring-cage and screw connection technology for virtually all applications in building technology and LED technology.

All of the products in the COMBICON compact series are:

- Space-saving, thanks to their compact dimensions
- Versatile with regard to the connection technology
- Functional with regard to design and choice of material

COMBICON compact with screw connection

With the PT range, Phoenix Contact provides a new series of terminal blocks with screw connection and, compared with others in its class, outstanding clamping space. A CLIP version is available for clam-shell electronics housings, which can be directly latched to the housing. The various PCB terminal blocks and connectors that can be coded are very versatile and particularly suitable for large-scale serial products and price-critical applications.

COMBICON compact with springcage connection

The proven and easy-to-operate springcage double connection is available with 3.5 and 5.0 mm pitch. While the FK-MPT series has extremely compact dimensions, the new PTDA series combines high terminal block capacity with an attractive design.

The PTS series is new. These spring-cage PCB terminal blocks and plug-in connectors offer conductor connection featuring direct plug-in technology with a release button. This means that stranded conductors can also be easily connected.

The small pitch of the PTSM series is suitable for applications where space really is at a premium, such as those found in LED lighting technology, for example. The white housing makes this miniature terminal block the ideal match for the light-colored PCBs of LED lights.

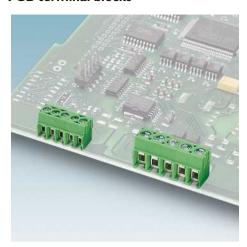
COMBICON compact pin strips

The matching pin strips for plug-in versions are made from high-temperature-resistant material and can therefore be used in the reflow soldering process (THR). A taped version for use on automatic machines is available on request.

General	386
COMBICON compact cross-reference list	388
PCB terminal blocks and plugs with 2.5 mm pitch THR spring-cage PCB terminal blocks up to 0.75 mm²	391 391
SMD spring-cage PCB terminal blocks up to 0.75 mm ²	393
Plugs with pierce contact up to 0.34 mm² and spring-cage connection up to 0.75 mm²	395
SMT and THR base strips for plugs with pierce contact or spring- cage connection	397
Inverted SMD and THR base strips	399
PTF series Connection terminal block for flexible PCBs	401
FK-MPT series PCB terminal blocks with spring-cage double connection up to $2 \times 0.5 \text{ mm}^2$	403
PTDA series Angled PCB terminal blocks with spring-cage double connection up to $2 \times 2.5 \text{ mm}^2$	407
PTSA series Angled spring-cage PCB terminal blocks up to 1.5 mm²	411
PTS series Horizontal PCB terminal block for conductor cross sections up	415
to 2.5 mm² Plug with spring connection for pin strips	417
PT 1,5 series PCB terminal blocks with screw connection up to 2.5 mm ²	419
PT 2,5 series PCB terminal blocks with screw connection up to 4 mm²	431
PT 2,5 plug-in system Multi-plug-in system with screw connection up to 4 mm²	431
PST series Pin strips for COMBICON compact plugs	432
FOPT series FO fast connection PCB terminal blocks FOPT 2,2-T/R	436

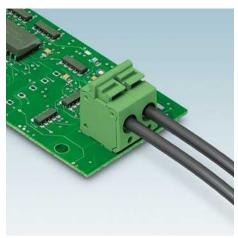
General

PCB terminal blocks



PT 1,5 PCB terminal blocks

- Screw connection
- High terminal capacity
- High current carrying capacity
- Plus/minus screw as standard
- Highly flexible wire protector



PTS 1,5 PCB terminal blocks

- Push-in spring connection
- Finger-operated release button
- Compact design
- Test connection



PTDA PCB terminal blocks

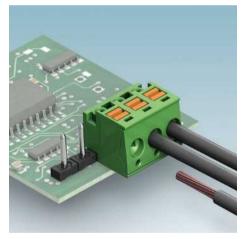
- Spring-cage double connection
- Direct plug-in method
- Compact dimensions
- Test connection

Plug-in connectors for pin strips



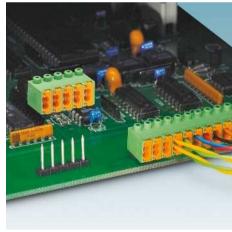
PT 1,5 plug-in connectors

- Screw connection with tension sleeve
- For latching in device housing
- Snap-on feet for reliable hold
- Ideal for clam-shell electronics housing



PTS plug-in connectors

- Push-in spring connection
- Safe latching when connecting the new pin-strip base strip
- Integrated release button prevents inadvertent release
- Optional coding
- Size comparable with screw solution

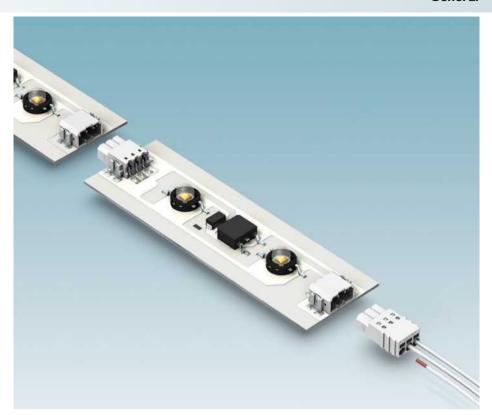


FK-MPT plug-in connectors

- Spring-cage double connection
- Direct plug-in method
- Compact dimensionsAlso available as PCB terminal block

Miniature PCB terminal blocks and plugs for LED lighting technology

- Push-in spring connection with release function
- Suitable for solid and stranded conduc-
- Space-saving THR versions with two solder pins
- Robust SMD versions with edge anchor metals
- SMD soldering spots can be easily accessed for test purposes
- Compact design: 5 mm tall
- 2.5 mm pitch
- High current carrying capacity of 6 A
- Large connection capacity up to 0.75 mm²
- Available as PCB terminal block and plug-in connector
- Plug-in connectors for connections that can be separated
- Inverted base strips for board-to-board connections
- Available in white and black



Options for COMBICON compact connection technology

Designation	Marking	Color		Partial assembly	Mech. coding	Color coding	Tape-on-reel packing	Other
		Standard	Optional					
PTSM	● 5)			•	O	O	•	
PTSM Plug-in	•5)			•	O	O	•	
PTQ	•		2)	O ²⁾	O	O	•	
PTS	•			O ²⁾	O	•	O ²⁾	Blocks available with different pitches
PTSPH	•			O ²⁾	•	O	O	
FK-MPT	•4)			•	O	O	O ²⁾	
PTSA	•			● 1)	O	•	O ²⁾	Blocks available with different pitches
PTDA	•4)			●1)	•	•	O ²⁾	Blocks available with different pitches
PTA 1,5 PT 1,5 PT 2,5	•			•	•	O	O ²⁾	A-version can be aligned in the pitch (plug)
PST	0			•	O	O	•	Various pin lengths/ge- ometries available on request
PSTL	0		O	•	•	O	O ²⁾	
PSTSF	О		O	•	•	O	O ²⁾	



O = Not available

¹⁾ With pitch spacer

²⁾ Available on request

 $^{^{3)}}$ E.g., to double the pitch

⁴⁾ Two marking areas available

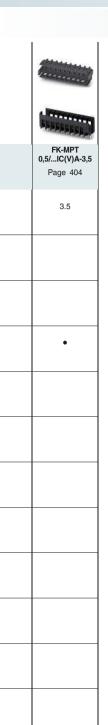
⁵⁾ Color marking

COMBICON compact cross-reference list

		COMBICON compact pin strips	HIIIIII	*********	#####	erranen.	manna	pinnin.	.immo	
	Туре		PST 1,03,5 Page 432	PST 1,0/H-3,5 Page 433	PST 1,3/5,0 Page 434	PST 1,3/H-5,0 Page 435	PST 1,3/5,0- SF Page 417	PST 1,3/LH- 5,0 Page 431	PST 1,3/LV- 5,0 Page 431	
COMBICON compact plugs		Pitch	3.5	3.5	5.0	5.0	5.0	5.0	5.0	
HELLER	PTDA 1,5/PH-3,5 Page 407	3.5	•	•1)						
HERRES	PTDA 1,5/PH-5,0 Page 409	5.0			•	•1)				
	FK-MPT 0,5/3,5 Page 403	3.5								
ikajekistaja i	FK-MPT 0,5ST-3,5 Page 403	3.5	•	•1)						
******	PTS 1,5/PH-5,0 Page 417	5.0			•	•	•			
Chrescher	PT 1,5/PH-3,5 Page 423	3.5	•	•						
receive the	PT 1,5/PVH-3,5 Page 423	3.5	•	•						
	PT 1,5/PH-5,0 Page 425	5.0			•	•				
	PT 1,5/PH-5,0 CLIP Page 425	5.0			•	•				
	PT 1,5/PVH-5,0 Page 425	5.0			•	•				
CERTARETE	PT 2,5/PVH-5,0 Page 431	5.0			•	•1)		•	•	

¹⁾ Requires appropriate connection. More details available on request.

COMBICON compact cross-reference list



		COMBICON compact Pin strips		FILE	[m]
	Туре		PTSM 0,5/ HH-2,5-THR	PTSM 0,5/ HV-2,5-THR	PTSM 0,5/ HH-2,5-SMD
			Page 397	Page 397	Page 397
COMBICON compact plugs		Pitch	2.5	2.5	2.5
200	PTSM 0,5/P-2,5 Page 395	2.5	•	•	•
	PTSM 0,5/HHI-2,5- THR Page 399	2.5	•	•	•
1	PTSM 0,5/HV-2,5- THR Page 399	2.5	•	•	•

PCB terminal blocks and plugs with 2.5 mm pitch

THR spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile THR print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Double solder pins for stable hold on **PCB**
- Specifically designed for use in reflow/solder processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

PTSM is also available in black, see page 51.

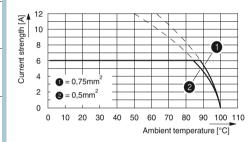
Observe derating curve.

- 1) UL/CUL on request.
- 2) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.
- 3) Applies for single-phase networks.

Accessories For all types Туре Page Screwdriver SZS 0,4 X 2,0 Order No. 1205202 Ferrules with and without plastic sleeve Crimping pliers for 0.25 to 6 mm CRIMPFOX 6 Order No. 1212034

Current carrying capacity curve

Type: PTSM 0,5/...-2,5-H- THR R... Tested in accordance with DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	:
Bated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	[V]
Traced modificant voltage for political degree 2	[*1
Pitch	[mm]
Connection capacity	
Solid / stranded	mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with t	he same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PTSM 0,5/	2,5-H THI	R WH R24	PTSM 0,5	/2,5-V TH	R WH R44
	6/0.5			6/0.5	
	250 ³)			250 ³)	
	2.5			2.5	
0.44 0.5		0.4 0.000	044.05		(04 000)
0.14 - 0.5	0.25 - 0.5 0.25 - 0.5	24 - 202)	0.14 - 0.5	0.25 - 0.5 0.25 - 0.5	24 - 202)
-	0.23 - 0.3		-	0.25 - 0.5	
	-			-	
	-/-			-/-	
			-	-	
			-		
III/3	III/2	II / 2	III/3	III/2	11/2
160	250 ³)	400	160	250³)	400
2.5	2.5	2.5	2.5	2.5	2.5
В	С	D	В	С	D
-	-	-	-	-	-
	-	-		-	-
-	-	-	-	-	-
В	С	D	В	С	D
	-	-		-	-
	-			-	-
-	-	-	-	-	-
	6 PA/I			6 PA/I	
	V0		V0		
10	/ 0.3 x 0.8 r	mm	10	2/0.3 x 0.8 i	mm
1.2	/ U.S X U.O I	11111	1.2	. / U.J X U.O I	11111

No. of po	S.	Dim. a [mm]
	2	2.50
	3	5.00
	4	7.50
	5	10.00
	6	12.50
	7	15.00
	8	17.50

PCB terminal blocks and plugs with 2.5 mm pitch





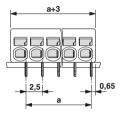


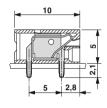


Horizontal PCB terminal block for THR applications

Vertical PCB terminal block for THR applica-

Dimensional drawing

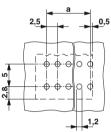


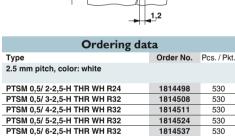


Dimensional drawing

Drilling diagram

Drilling diagram





1814540

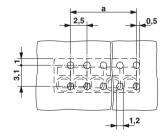
1814553

530

530

PTSM 0.5/ 7-2.5-H THR WH R32

PTSM 0,5/ 8-2,5-H THR WH R32



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
2.5 mm pitch, color: white			
PTSM 0,5/ 2-2,5-V THR WH R44	1814566	310	
PTSM 0,5/ 3-2,5-V THR WH R44	1814579	310	
PTSM 0,5/ 4-2,5-V THR WH R44	1814582	310	
PTSM 0,5/ 5-2,5-V THR WH R44	1814595	310	
PTSM 0,5/ 6-2,5-V THR WH R44	1814605	310	
PTSM 0,5/ 7-2,5-V THR WH R44	1814618	310	
PTSM 0,5/ 8-2,5-V THR WH R44	1814621	310	

PCB terminal blocks and plugs with 2.5 mm pitch

SMD spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile SMD print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Rugged soldering anchors for safe mechanical fastening on the surface
- Specially designed to be used in pure **SMT** processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

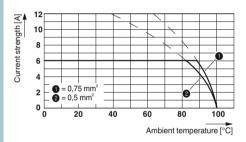
PTSM is also available in black, see page 53.

- 1) UL/CUL on request.
- 2) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.
- 3) Applies for single-phase networks.

Accessories			
For all types	Туре	Page	
	Screwdriver SZS 0,4 X 2,0 Order No. 1205202		
11	Ferrules with and without plastic sleeve	834	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		

Current carrying capacity curve

Type: PTSM 0,5/...-2,5-H- SMD R44 Tested in accordance with DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
T : :	
Technical data in accordance to IEC / DIN VD	
Rated current / conductor cross section	[A] / [mm²
Rated insulation voltage for pollution degree 2	2 [V
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²
Multi-conductor connection capacity (two conductors with	n the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with TWIN ferrule with plastic sleeve	e [mm²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	

PTSM 0,5/	2,5-H SMD	WH R24	PTSM 0,5	/2,5-V SMI	D WH R44
	6/0.5			6/0.5	
	250 ³)			160 ³)	
	2.5			2.5	
0.14 - 0	.5/0.2-5/2	26 - 20 ²)	0.14 - 0.	5 / 0.2 - 0.5 /	26 - 20 ²)
	0.25 - 0.5			0.25 - 0.5	
	-			-	
-	-/-			-/-	
	-			-	
	-			-	
III/3	III/2	II / 2	III/3	III/2	II/2
63	250 ³)	320	63	160³)	320
2.5	2.5	2.5	2.5	2.5	2.5
В	С	D	В	С	D
-	-	-	-	-	-
-	-	-		-	-
-	26 - 20	-	-	26 - 20	-
В	С	D	В	С	D
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
	6			6	
	PA/I			PA/I	
	V0			V0	

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

PCB terminal blocks and plugs with 2.5 mm pitch





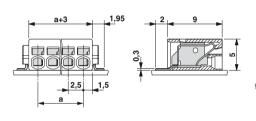




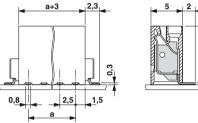
Horizontal PCB terminal block for SMD applications

Vertical PCB terminal block for SMD applica-

Dimensional drawing



Dimensional drawing



PCB layout

Dimension M: 7.7 mm

PTSM 0,5/ 5-2,5-H SMD WH R44

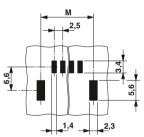
PTSM 0,5/ 6-2,5-H SMD WH R44

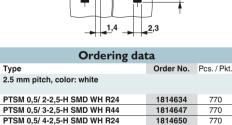
PTSM 0,5/ 7-2,5-H SMD WH R44

PTSM 0,5/ 8-2,5-H SMD WH R44



Dimension M: 8.4 mm





1814663

1814676

1814689

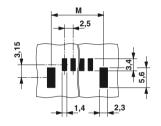
1814692

770

770

770

770



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
2.5 mm pitch, color: white				
PTSM 0,5/ 2-2,5-V SMD WH R44	1814702	400		
PTSM 0,5/ 3-2,5-V SMD WH R44	1814715	400		
PTSM 0,5/ 4-2,5-V SMD WH R44	1814728	400		
PTSM 0,5/ 5-2,5-V SMD WH R44	1814731	400		
PTSM 0,5/ 6-2,5-V SMD WH R44	1814744	400		
PTSM 0,5/ 7-2,5-V SMD WH R44	1814757	400		
PTSM 0,5/ 8-2,5-V SMD WH R44	1814760	400		

PCB terminal blocks and plugs with 2.5 mm pitch

Plugs with spring connection up to 0.75 mm²



- Miniature plug with 2.5 mm pitch
- Can be plugged into THR and SMD headers
- Conductor connection up to 0.75 mm²
- High current carrying capacity up to 6 A

Notes:	
PTSM is also available in black, see page 55.	
COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/product or starting on page 388.	

Accessories			
For all types	Туре	Page	
For PTSM connectors of	Screwdriver SZS 0,4 X 2,0 Order No. 1205202		
11	Ferrules with and without plastic sleeve	834	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		

Technical data		
Technical data in accordance to IEC / DIN VI	DE	
Rated current / conductor cross section	[A] / [mm ²]	
Rated insulation voltage for pollution degree	2 [V]	
Pitch	[mm]	
Connection capacity		
Solid / stranded	[mm ²] / [mm ²] / AWG	
Insulation coordination		
Surge voltage category / pollution degree		
Rated insulation voltage	[V]	
Rated surge voltage	[kV]	
Approval data (UL/CUL)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
Approval data (CSA)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
General data		
Stripping length	[mm]	
Type of insulation material / insulation material group		
Inflammability class according to UL 94		

	6/0.5	
	250	
	2.5	
0.14 - 0.5	5 / 0.2 - 0.5	/ 24 - 20
III/3	III/2	II / 2
100	250	320
2.5	2.5	2.5
В	С	D
150	-	-
5	-	-
26 - 20	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	6	
	PA/I	
V0		

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

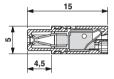


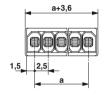


Spring-cage plug for conductor cross sections up to 0.75 mm²



Dimensional drawing





Ordering data						
Туре	Order No.	Pcs. / Pkt.				
2.5 mm pitch, color: white						
PTSM 0,5/ 2-P-2,5 WH	1704853	250				
PTSM 0,5/ 3-P-2,5 WH	1704854	250				
PTSM 0,5/ 4-P-2,5 WH	1704857	250				
PTSM 0,5/ 5-P-2,5 WH	1704858	100				
PTSM 0,5/ 6-P-2,5 WH	1704859	100				
PTSM 0,5/ 7-P-2,5 WH	1704860	100				
PTSM 0,5/ 8-P-2,5 WH	1704861	100				

PCB terminal blocks and plugs with 2.5 mm pitch

SMT and THR headers for pierce contact or spring-cage connectors



- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Robust solder anchor for secure, mechanical fixing to the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM...-/PTPM...con-
- Versions with and without positioning pins are available
- 2.5 mm pitch

PTSM is also available in black, see page 59.

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

- 1) UL/CUL on request.
- 2) Current carrying dependent upon plug used.
- 3) Applies for single-phase networks.

Technical data		PTSM 0,5/.	HH-2,5-TH	R WH R16	PTSM 0,5/	HV-2,5-TI	HR WH R32	PTSM 0,5/	HH0-2,5-S	MD WH R32
Technical data in accordance to IEC / DIN VDE										
Rated current	[A]		6 ²)			6 ²)			6 ²)	
Rated insulation voltage for pollution degree 2	[V]		250 ³)		250³)			250³)		
Pitch	[mm]	-	2.5			2.5		-	2.5	
Insulation coordination										
Surge voltage category / pollution degree		III/3	III/2	II / 2	III/3	III/2	II / 2	III/3	III/2	II / 2
Rated insulation voltage	[V]	125	250 ³)	320	125	250 ³)	320	125	250 ³)	320
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (CSA)	Use Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Type of insulation material / insulation material group			PA/I			PA/I			PA/I	
Inflammability class according to UL 94			V0			V0			V0	
Drill hole diameter / pin dimensions	[mm]	1.1	/ 0.6 x 0.6 ı	mm	1.1	/ 0.6 x 0.6 ı	mm		-/-	

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

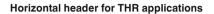
PCB terminal blocks and plugs with 2.5 mm pitch











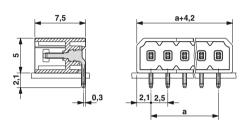


Vertical header for THR applications

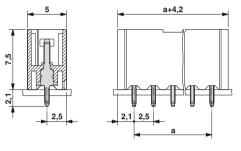


Horizontal header for SMD applications

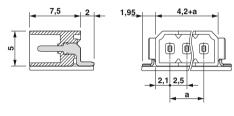
Dimensional drawing



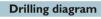
Dimensional drawing



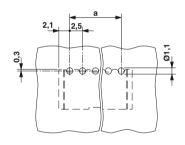
Dimensional drawing



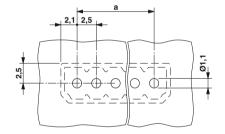
Drilling diagram



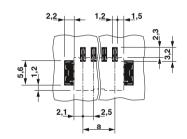
Drilling diagram



Ordering data							
Туре	Order No.	Pcs. / Pkt.					
2.5 mm pitch, color: white, without positioning pins							
PTSM 0,5/ 2-HH-2,5-THR WH R16	1814841	500					
PTSM 0,5/ 3-HH-2,5-THR WH R32	1814854	500					
PTSM 0,5/ 4-HH-2,5-THR WH R32	1814867	500					
PTSM 0,5/ 5-HH-2,5-THR WH R32	1814870	500					
PTSM 0,5/ 6-HH-2,5-THR WH R32	1814883	500					
PTSM 0,5/ 7-HH-2,5-THR WH R44	1814896	500					
PTSM 0,5/ 8-HH-2,5-THR WH R44	1814906	500					



Ordering data					
Туре	Pcs. / Pkt.				
2.5 mm pitch, color: white, without positioning pins					
PTSM 0,5/ 2-HV-2,5-THR WH R32	1815264	330			
PTSM 0,5/ 3-HV-2,5-THR WH R32	1815277	330			
PTSM 0,5/ 4-HV-2,5-THR WH R32	1815280	330			
PTSM 0,5/ 5-HV-2,5-THR WH R32	1815293	330			
PTSM 0,5/ 6-HV-2,5-THR WH R32	1815303	330			
PTSM 0,5/ 7-HV-2,5-THR WH R44	1815316	330			
PTSM 0,5/ 8-HV-2,5-THR WH R44	1815329	330			



Ordering data							
Туре	Order No.	Pcs. / Pkt.					
2.5 mm pitch, color: white, without positioning pins							
PTSM 0,5/ 2-HH0-2,5-SMD WH R32	1814919	600					
PTSM 0,5/ 3-HH0-2,5-SMD WH R32	1814922	600					
PTSM 0,5/ 4-HH0-2,5-SMD WH R32	1814935	600					
PTSM 0,5/ 5-HH0-2,5-SMD WH R32	1814948	600					
PTSM 0,5/ 6-HH0-2,5-SMD WH R44	1814951	600					
PTSM 0,5/ 7-HH0-2,5-SMD WH R44	1814964	600					
PTSM 0,5/ 8-HH0-2,5-SMD WH R44	1814977	600					

PCB terminal blocks and plugs with 2.5 mm pitch

Inverted SMD and THR base strips



- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Rugged soldering anchors for safe mechanical fastening on the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM base strips
- Versions with and without positioning pins are available
- 2.5 mm pitch
- Robust mechanical design

Notes:

PTSM is also available in black, see page 61.

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

1) UL/CUL on request.

2) Applies for single-phase networks.

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	-
Drill hole diameter / pin dimensions	[mm]

	PTSM 0,5/	HHI-2,5-TH	IR WH R24	PTSM 0,5/.	HHI0-2,5-SI	MD WHR24
L		6			6	
		250 ²)			250²)	
		2.5			2.5	
	III/3	III/2	11/2	III/3	III/2	II / 2
	160	250 ²)	400	160	250 ²)	400
	2.5	2.5	2.5	2.5	2.5	2.5
)	В	С	D	В	С	D
	-	1)	-	-	1)	-
Ē	-	1)	-	-	1)	-
i	-	-	-	-	-	-
)	В	С	D	В	С	D
L		-	-		-	-
L		-	-	-	-	-
i	-	-	-	-	-	-
		PA/I			PA / I	
		V0			V0	
L	1/	0.6 x 0.4 m	ım		-/-	

No. of pos.	Dim. a
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

PCB terminal blocks and plugs with 2.5 mm pitch







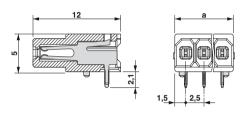




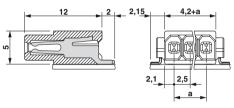
Horizontal inverted header, THR solderable

Horizontal inverted header, SMD solderable

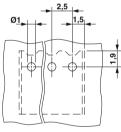
Dimensional drawing





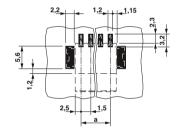








Ordering data						
Туре	Order No.	Pcs. / Pkt.				
2.5 mm pitch, color: white, without positioning pins						
PTSM 0,5/ 2-HHI-2,5-THR WH R24	1814980	500				
PTSM 0,5/ 3-HHI-2,5-THR WH R32	1814993	500				
PTSM 0,5/ 4-HHI-2,5-THR WH R32	1815002	500				
PTSM 0,5/ 5-HHI-2,5-THR WH R32	1815015	500				
PTSM 0,5/ 6-HHI-2,5-THR WH R32	1815028	500				
PTSM 0,5/ 7-HHI-2,5-THR WH R32	1815031	500				
PTSM 0,5/ 8-HHI-2,5-THR WH R32	1815044	500				



Ordering data							
Туре	Pcs. / Pkt.						
2.5 mm pitch, color: white, without positioning pins							
PTSM 0,5/ 2-HHI0-2,5-SMD WHR24	1815196	500					
PTSM 0,5/ 3-HHI0-2,5-SMD WHR44	1815206	500					
PTSM 0,5/ 4-HHI0-2,5-SMD WHR44	1815219	500					
PTSM 0,5/ 5-HHI0-2,5-SMD WHR44	1815222	500					
PTSM 0,5/ 6-HHI0-2,5-SMD WHR44	1815235	500					
PTSM 0,5/ 7-HHI0-2,5-SMD WHR44	1815248	500					
PTSM 0,5/8-HHI0-2,5-SMD WHR44	1815251	500					

1) UL/CUL on request.

for plugs and connectors.

2) Depending on the flexible PCB, a maximum of 10 A is permitted

Direct plug-in and PCB connectors for flexible PCBs

Connection terminal block for flexible LED PCBs



- Easy and reliable contacting of flexible LED PCBs
- Making the connection establishes a positive-locking link with the LED strips
- Small design with high power transmis-
- Available as direct plug-in and PCB connectors
- The direct plug-in connector is supplied complete with cables 500 mm in length
- Version according to IEC 60838-2-2
- Strips must be compatible with connection technology

Technical data		PTF 0,3/BB-1,8-H			PTF 0,3/WB-1,8-F		
T. I I							
Technical data in accordance to IEC / DIN VDE	20						
Rated current / conductor cross section	[A] / [mm ²]		102) / 0.34			102) / 0.34	
Rated insulation voltage for pollution degree 2	[V]		25			25	
Pitch	[mm]		1.8	-		1.8	
Connection capacity							
Solid / stranded [m	m ²] / [mm ²] / AWG		-/-/-			-/-/-	
Insulation coordination							
Surge voltage category / pollution degree		III/3	III/2	11/2	III/3	III/2	II.
Rated insulation voltage	[V]	25	25	25	25	25	2
Rated surge voltage	[kV]						
Approval data (UL/CUL)	Use Group	В	С	D	В	С	- 1
Nominal voltage	[V]	-	-	-	-	-	
Nominal current	[A]	-	-	-	-	-	
Connection capacity AWG	AWG	-	-	-	-	-	
Approval data (CSA)	Use Group	В	С	D	В	С	- 1
Nominal voltage	[V]	-	-	-	-	-	
Nominal current	[A]	-	-	-	-	-	
Connection capacity AWG	AWG	-	-	-	-	-	
General data							
Type of insulation material / insulation material gr	roup		PBT / Illa			PBT / Illa	
Inflammability class according to UL 94			V0			V0	

No. of pos.	
2	
4	

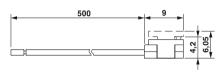
Direct plug-in and PCB connectors for flexible PCBs

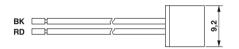






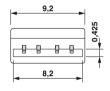
Dimensional drawing



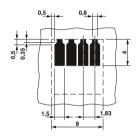


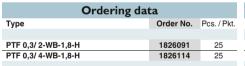
Dimensional drawing

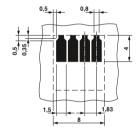




Drilling diagram







Ordering data			
Туре	Order No.	Pcs. / Pkt.	
PTF 0.3/ 4-BB-1.8-H	1826101	25	
1 11 0,07 4-00-1,0-11	1020101	25	

FK-MPT series

PCB terminals with spring-cage double connection up to 2 x 0.5 mm²



- Miniature connection terminal for solid conductors
- Pitch 3.5 mm
- Easy looping through of potentials, thanks to double connection
- Increased operating convenience, thanks to the direct plug-in method with release button
- Available as a PCB terminal block or as connector

Notes:

Larger packing units are available on request.

For PST 1,0/...-3,5 pin strips, see page 432.

COMBICON select

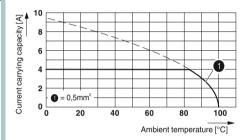
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories For all types Туре Page Marker cards SK 3,5/2,8 797

Current carrying capacity curve

Type: FK-MPT 0,5/5-ST-3,5 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 0.8 No. of positions: 5



Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section Rated insulation voltage for pollution degree 2 Pitch Connection capacity	[A] / [mm²] [V] [mm]
Rated current / conductor cross section Rated insulation voltage for pollution degree 2 Pitch Connection capacity	[V]
Rated insulation voltage for pollution degree 2 Pitch Connection capacity	[V]
Pitch Connection capacity	[V]
Connection capacity	[mm]
Solid / stranded [mm²]	/ [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the san	ne cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group)
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

FK-MPT 0,5/3,5	FK-MPT 0,5/3,5-H		FK-MPT 0,5/ST-3,5			
41) / 0.5	4	¹¹) / 0.5			41) / 0.5	
250		250			250	
3.5		3.5			3.5	
0.40, 0.57, 700, 00	0.40	. = / /0	0.00	0.40	0.57.70	0.00
0.12 - 0.5 / - / 26 - 20	0.12 - 0).5/-/2	0 - 20	0.12	- 0.5 / - / 2	6-20
· 	-	-		-	-	
-		-			-	
-/-		-/-			-/-	
-		-				
III/3 III/2 II/2	III/3	III/2	II / 2	III/3	III/2	11/2
160 250 250	160	250	250	160	250	250
2.5 2.5 2.5	2.5	2.5	2.5	2.5	2.5	2.5
B C D	В	С	D	В	С	D
300 - 300	300	-	300	300	-	300
4 - 4	4	-	4	4	-	4
28 - 20 - 28 - 20	28 - 20	-	28 - 20	28 - 20	-	28 - 20
B C D	В	С	D	В	С	D
		-	-		-	-
		-	-		-	-
	-	-	-	-	-	-
6.5		6.5			6.5	
PBT / Illa V0	PBT / IIIa			PBT / Illa V0		
· 	V0 1.2 / 1 mm			-/-		
1 / 0.4 x 0.9 mm	1,	2/1 mm	<u> </u>		-/-	

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50



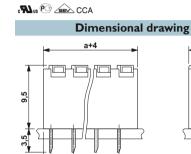




Connection direction vertical to the PCB

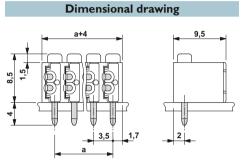
Connection direction parallel to the PCB

Can be plugged onto PST 1,0/...-3,5 pin strip

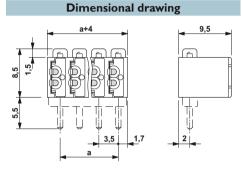




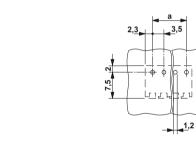
c¶Lus € ≦€ CCA

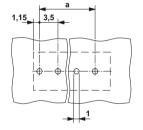


cSU us 🖭 🗫 CCA



Drilling diagram





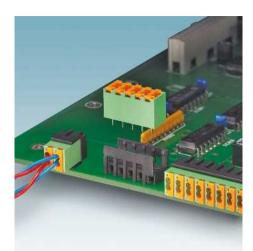
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
FK-MPT 0,5/ 2-3,5	1891069	50	
FK-MPT 0,5/ 3-3,5	1891072	50	
FK-MPT 0,5/ 4-3,5	1891085	50	
FK-MPT 0,5/ 5-3,5	1891098	50	
FK-MPT 0,5/ 6-3,5	1891108	50	
FK-MPT 0,5/ 7-3,5	1891111	50	
FK-MPT 0,5/ 8-3,5	1891124	50	
FK-MPT 0,5/ 9-3,5	1891137	50	
FK-MPT 0,5/10-3,5	1891140	50	
FK-MPT 0,5/11-3,5	1891153	50	
FK-MPT 0,5/12-3,5	1891166	50	
FK-MPT 0,5/13-3,5	1891179	50	
FK-MPT 0,5/14-3,5	1891182	50	
FK-MPT 0,5/15-3,5	1891195	50	
FK-MPT 0,5/16-3,5	1891205	50	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
FK-MPT 0,5/ 2-3,5-H	1928767	50	
FK-MPT 0,5/ 3-3,5-H	1928770	50	
FK-MPT 0,5/ 4-3,5-H	1928783	50	
FK-MPT 0,5/ 5-3,5-H	1928796	50	
FK-MPT 0,5/ 6-3,5-H	1928806	50	
FK-MPT 0,5/ 7-3,5-H	1928819	50	
FK-MPT 0,5/ 8-3,5-H	1928822	50	
FK-MPT 0,5/ 9-3,5-H	1928835	50	
FK-MPT 0,5/10-3,5-H	1928848	50	
FK-MPT 0,5/11-3,5-H	1928851	50	
FK-MPT 0,5/12-3,5-H	1928864	50	
FK-MPT 0,5/13-3,5-H	1928877	50	
FK-MPT 0,5/14-3,5-H	1928880	50	
FK-MPT 0,5/15-3,5-H	1928893	50	
FK-MPT 0,5/16-3,5-H	1928903	50	

	Ordering dat	ta	
t.	Туре	Order No.	Pcs. / Pkt
	3.5 mm pitch, color: green		
	FK-MPT 0,5/ 2-ST-3,5	1913921	50
	FK-MPT 0,5/ 3-ST-3,5	1913934	50
	FK-MPT 0,5/ 4-ST-3,5	1913947	50
	FK-MPT 0,5/ 5-ST-3,5	1913950	50
	FK-MPT 0,5/ 6-ST-3,5	1913963	50
	FK-MPT 0,5/ 7-ST-3,5	1913976	50
	FK-MPT 0,5/ 8-ST-3,5	1913989	50
	FK-MPT 0,5/ 9-ST-3,5	1913992	50
	FK-MPT 0,5/10-ST-3,5	1914001	50
	FK-MPT 0,5/11-ST-3,5	1914027	50
	FK-MPT 0,5/12-ST-3,5	1914030	50
	FK-MPT 0,5/13-ST-3,5	1914043	50
	FK-MPT 0,5/14-ST-3,5	1914056	50
	FK-MPT 0,5/15-ST-3,5	1914069	50
	FK-MPT 0,5/16-ST-3,5	1914072	50

FK-MPT series

FK-MPT 0,5/...-IC(V)A base strips for spring-cage miniature terminal blocks



- Shock-proof header for FK-MPT PCB terminal block
- Pitch 3.5 mm
- Simple pre-assembly
- Available in vertical and horizontal versions
- With closed side panels
- Protection against mismatching due to the asymmetrical layout of sockets

Notes:

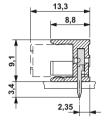
COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

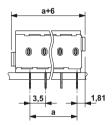


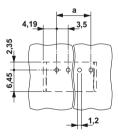
Base strip for FK-MPT 0,5/...-3,5, plug-in direction horizontal to the PCB

PLus 🕑

Dimensional drawing







Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current [A] 3				
Rated insulation voltage for pollution degree 2	[V]		250	
Pitch	[mana]		3.5	
	[mm]		3.5	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]	160	250	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	4	-	4
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group			PA / IIIa	
Inflammability class according to UL 94	Inflammability class according to UL 94 V0			
Drill hole diameter / pin dimensions	[mm]	1/	0.3 x 0.9 m	nm

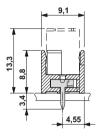
		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
of pos.	Dim. a [mm]	Pitch 3.5 mm, color: Black		
2	3.50	FK-MPT 0,5/ 2-ICA-3,5	1930328	50
3	7.00	FK-MPT 0,5/ 3-ICA-3,5	1930331	50
4	10.50	FK-MPT 0,5/ 4-ICA-3,5	1930344	50
5	14.00	FK-MPT 0,5/ 5-ICA-3,5	1930357	50
6	17.50	FK-MPT 0,5/ 6-ICA-3,5	1930360	50
7	21.00	FK-MPT 0,5/ 7-ICA-3,5	1930373	50
8	24.50	FK-MPT 0,5/ 8-ICA-3,5	1930386	50
9	28.00	FK-MPT 0,5/ 9-ICA-3,5	1930399	50
10	31.50	FK-MPT 0,5/10-ICA-3,5	1930409	50
11	35.00	FK-MPT 0,5/11-ICA-3,5	1930412	50
12	38.50	FK-MPT 0,5/12-ICA-3,5	1930425	50
13	42.00	FK-MPT 0,5/13-ICA-3,5	1930438	50
14	45.50	FK-MPT 0,5/14-ICA-3,5	1930441	50
15	49.00	FK-MPT 0,5/15-ICA-3,5	1930454	50
16	52.50	FK-MPT 0,5/16-ICA-3,5	1930467	50

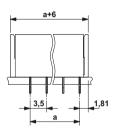


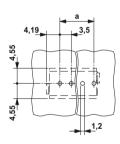
Base strip for FK-MPT 0,5/...-3,5, plug-in direction vertical to the PCB

D 20 LP2

Dimensional drawing



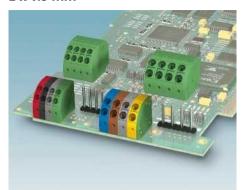




Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 3.5 mm, color: Black			
FK-MPT 0,5/ 2-ICVA-3,5	1930470	50	
FK-MPT 0,5/ 3-ICVA-3,5	1930483	50	
FK-MPT 0,5/ 4-ICVA-3,5	1930496	50	
FK-MPT 0,5/ 5-ICVA-3,5	1930506	50	
FK-MPT 0,5/ 6-ICVA-3,5	1930519	50	
FK-MPT 0,5/ 7-ICVA-3,5	1930522	50	
FK-MPT 0,5/ 8-ICVA-3,5	1930535	50	
FK-MPT 0,5/ 9-ICVA-3,5	1930548	50	
FK-MPT 0,5/10-ICVA-3,5	1930551	50	
FK-MPT 0,5/11-ICVA-3,5	1930564	50	
FK-MPT 0,5/12-ICVA-3,5	1930577	50	
FK-MPT 0,5/13-ICVA-3,5	1930580	50	
FK-MPT 0,5/14-ICVA-3,5	1930593	50	
FK-MPT 0,5/15-ICVA-3,5	1930603	50	
FK-MPT 0,5/16-ICVA-3,5	1930616	50	

PTDA series

Angled PCB terminals with springcage double connection up to 2 x 1.5 mm²



- Spring-cage double connection using direct plug-in method with a release but-
- Pitch 3.5 mm
- Large terminal block capacity with compact dimensions
- Optional color coding
- Plug with optional mechanical coding
- Attractive design for connection in the field of vision
- PCB terminal block and plug-in connector available

Notes:

COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

PTDA 1,5/...-PH-3,5 can be plugged onto the PST 1,0/...-3,5 pin strip, see page 432.

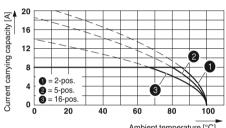
Pitch spacers for the PTDA series are available on request. For further information, visit www.phoenixcontact.net/products.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories For all types Туре Page Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504 Coding profile CP-PTDA Order No. 1731361 Marker cards 797 SK 3,5/2,8 Ferrules with and without 834 plastic sleeve Crimping pliers for 0.25 CRIMPFOX 6 Order No. 1212034

Representative derating curve Type: PTDA 1,5/...-PH-3,5 Derating curve determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01

Reduction factor = 0.8 Conductor cross section: 1.5 mm²



Ambient temperature [°C]

	L
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wi	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleev	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation materi	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PTDA 1,5/3,5		PTD	PTDA 1,5/PH-3,5			
	13.5 ¹) / 1.5			81) / 1.5		
	240			240		
	0.5			0.5		
	3.5			3.5		
00 11	5 / 0.2 - 1.5	/0/ 16	0.2 1.1	5 / 0.2 - 1.5	/0/ 16	
0.2 - 1.0	0.5 - 1.5	724-10	0.2 - 1.	0.5 - 1.5	724-10	
-	0.5 - 0.5			0.5 - 0.5		
	0.5 - 0.5			0.5 - 0.5		
0.2	- 1.5 / 0.2 -	1.5	0.2	- 1.5 / 0.2 -	1.5	
	0.5 - 1.5			0.5 - 1.5		
-	0.5 - 0.5			0.5 - 0.5		
III/3	III/2	11/2	III/3	III/2	11/2	
200	240	400	160	240	400	
2.5	2.5	2.5	2.5	2.5	2.5	
В	С	D	В	С	D	
300	-	300	150	-	300	
12	-	10	10	-	10	
24 - 16	24 - 16	24 - 16	24 - 16	24 - 16	24 - 16	
В	С	D	В	С	D	
	-	-		•	-	
	-	-		-	-	
-	-	-	-	-	-	
	4.0			40		
10			10			
PA / I V0				PA / I		
		V0				
	/ I.U X U.	1.3 / 1.0 x 0.4		-/-		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

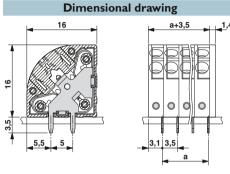




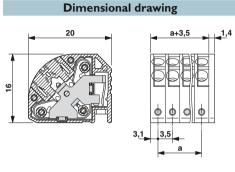
PCB terminal block with spring-cage double connection

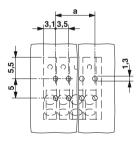
Plug component with spring-cage double connection, can be plugged onto PST 1,0/...-3,5 pin strip









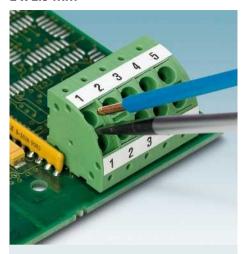


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
3.5 mm pitch, color: green				
PTDA 1,5/ 2-3,5	1724912	50		
PTDA 1,5/ 3-3,5	1724925	50		
PTDA 1,5/ 4-3,5	1724938	50		
PTDA 1,5/ 5-3,5	1724951	50		
PTDA 1,5/ 6-3,5	1724964	50		
PTDA 1,5/ 7-3,5	1724977	50		
PTDA 1,5/ 8-3,5	1724996	50		
PTDA 1,5/ 9-3,5	1725003	50		
PTDA 1,5/10-3,5	1725016	50		
PTDA 1,5/11-3,5	1725029	50		
PTDA 1,5/12-3,5	1725042	50		
PTDA 1,5/13-3,5	1725055	50		
PTDA 1,5/14-3,5	1725068	50		
PTDA 1,5/15-3,5	1725081	50		
PTDA 1,5/16-3,5	1725094	50		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
3.5 mm pitch, color: green				
PTDA 1,5/ 2-PH-3,5	1725107	250		
PTDA 1,5/ 3-PH-3,5	1725120	250		
PTDA 1,5/ 4-PH-3,5	1725133	250		
PTDA 1,5/ 5-PH-3,5	1725146	100		
PTDA 1,5/ 6-PH-3,5	1725159	100		
PTDA 1,5/ 7-PH-3,5	1725172	100		
PTDA 1,5/ 8-PH-3,5	1725185	100		
PTDA 1,5/ 9-PH-3,5	1725198	100		
PTDA 1,5/10-PH-3,5	1725211	100		
PTDA 1,5/11-PH-3,5	1725224	50		
PTDA 1,5/12-PH-3,5	1725237	50		
PTDA 1,5/13-PH-3,5	1725250	50		
PTDA 1,5/14-PH-3,5	1725263	50		
PTDA 1,5/15-PH-3,5	1725276	50		
PTDA 1,5/16-PH-3,5	1725289	50		

PTDA series

Angled PCB terminals with springcage double connection up to 2 x 2.5 mm²



- Spring-cage double connection using direct plug-in method with a release but-
- 5.0 mm pitch
- Large terminal block capacity with compact dimensions
- Optional color coding
- Plug with optional mechanical coding
- Attractive design for connection in the field of vision
- PCB terminal block and plug-in connector available

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

PTDA 2,5/...-PH-5,0 can be plugged onto the PST 1,3/...-5,0 pin strip, see page 434.

8 mm ferrules can be used.

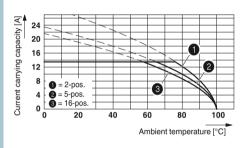
Pitch spacers for the PTDA series are available on request. For further information, visit www.phoenixcontact.net/products.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories For all types Туре Page Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517 Coding profile CP-PTDA Order No. 1731361 798 Marker cards SK 5/3,8 Ferrules with and without 834 plastic sleeve Crimping pliers for 0.25 CRIMPFOX 6 Order No. 1212034

Representative derating curve

Type: PTDA 2,5/ 16-PH-5,0 Derating curve, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Reduction factor = 0.8 Conductor cross section: 2.5 mm²



Technical data	
Technical data in accordance to IEC / DIN VI	-
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	e [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PT	PTDA 2,5/5,0		PTD	PTDA 2,5/PH-5,0		
	241) / 2.5			13.51) / 2.5	;	
	400			400		
	5			5		
0.0	- / 0 0 0 5	/04 44	0.0.0	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14		
0.2 - 2.	5 / 0.2 - 2.5 0.5 - 2.5	/24 - 14	0.2 - 2.	0.5 - 2.5	/ 24 - 14	
-	0.5 - 2.5			0.5 - 2.5		
	0.5 - 1			0.5 - 1		
	- 2.5 / 0.2 -	2.5	0.2	- 2.5 / 0.2 -	2.5	
0.2	0.5 - 2.5	2.0	0.2	0.5 - 2.5	2.0	
-	0.5 - 1		-	0.5 - 1		
	0.0			0.0 .		
III/3	III/2	II / 2	III/3	III/2	II/2	
320	400	630	320	400	630	
4	4	4	4	4	4	
В	С	D	В	С	D	
300	-	300	300	150	300	
15	-	10	13.5	13.5	10	
24 - 14	24 - 14	24 - 14	24 - 14	24 - 14	24 - 14	
В	С	D	В	С	D	
	-	-		-	-	
	-	-		-	-	
	-	-	-	-	-	
	10			10		
	PA/I		PA/I			
	V0		V0			
	1.3 / 1.0 x 0.4					

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00



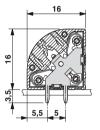


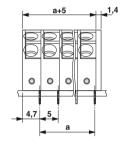
PCB terminal block with spring-cage double connection

Plug component with spring-cage double connection, can be plugged onto PST 1,3/...-5,0 pin strip

CCA CB

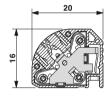
Dimensional drawing

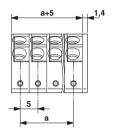


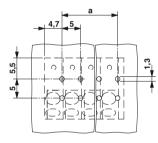


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Dimensional drawing







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
PTDA 2,5/ 2-5,0	1725302	50		
PTDA 2,5/ 3-5,0	1725315	50		
PTDA 2,5/ 4-5,0	1725328	50		
PTDA 2,5/ 5-5,0	1725341	50		
PTDA 2,5/ 6-5,0	1725354	50		
PTDA 2,5/ 7-5,0	1725367	50		
PTDA 2,5/ 8-5,0	1725380	50		
PTDA 2,5/ 9-5,0	1725393	50		
PTDA 2,5/10-5,0	1725406	50		
PTDA 2,5/11-5,0	1725419	50		
PTDA 2,5/12-5,0	1725432	50		
PTDA 2,5/13-5,0	1725445	50		
PTDA 2,5/14-5,0	1725458	50		
PTDA 2,5/15-5,0	1725471	50		
PTDA 2,5/16-5,0	1725484	50		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
PTDA 2,5/ 2-PH-5,0	1725497	250		
PTDA 2,5/ 3-PH-5,0	1725510	250		
PTDA 2,5/ 4-PH-5,0	1725523	250		
PTDA 2,5/ 5-PH-5,0	1725536	100		
PTDA 2,5/ 6-PH-5,0	1725549	100		
PTDA 2,5/ 7-PH-5,0	1725623	100		
PTDA 2,5/ 8-PH-5,0	1725636	100		
PTDA 2,5/ 9-PH-5,0	1725649	100		
PTDA 2,5/10-PH-5,0	1725652	100		
PTDA 2,5/11-PH-5,0	1725665	50		
PTDA 2,5/12-PH-5,0	1725678	50		
PTDA 2,5/13-PH-5,0	1725640	50		
PTDA 2,5/14-PH-5,0	1725653	50		
PTDA 2,5/15-PH-5,0	1725666	50		
PTDA 2,5/16-PH-5,0	1725679	50		

PTSA series

Angled spring-cage PCB terminal blocks up to 0.5 mm²



- Compact type with simple operation and direct plug-in method
- 2.5 mm pitch
- Increase in the dielectric strength and the mechanical stability, thanks to zigzag pinning. The pinning process always begins from the front right position. Special pinning available on request
- Color coding and mixed pitch as an option

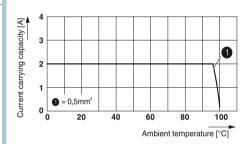
Notes:

- 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- 2) Only with pitch spacer.

Accessories					
For all types	Туре	Page			
4	Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504				

Current carrying capacity curve Type: PTSA 0,5/5-2,5-Z

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5

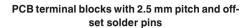


Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	n the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PTSA 0,5/2,5-Z		PTSA 0,5/2,5-F			
	21) / 0.5			21) / 0.5	
	250			250	
	2.5			2.5	
0.14 - 0.	5 / 0.2 - 0.5	5 / 24 - 20	0.14 - 0.	5 / 0.2 - 0.5	5 / 24 - 20
	•			-	
	-			-	
	-/-			-/-	
	-			•	
	-			-	
III / O		11.40		W / O	11.70
III/3	III/2	11/2	III/3	III/2	11/2
160	250	400	63	250	250
2.5	2.5	2.5	2.5	2.5	2.5
В	С	D	В	С	D
300	-	300	150	•	3002)
2	-	2	2	-	22)
26 - 20	-	26 - 20	26 - 20	-	26 - 20
В	С	D	В	С	D
	-			-	
	-			-	-
-		-		-	
	9			9	
9 PA/I			PA / I		
V0			V0		
		1 / 0.4 x 0.75			
1 / 0.4 x 0.75			/ U.T X U./	J	

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
9	20.00
10	22.50
11	25.00
12	27.50
13	30.00
14	32.50
15	35.00
16	37.50

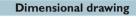


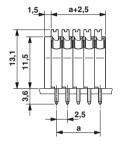


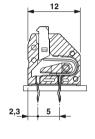


PCB terminal blocks with 2.5 mm pitch, solder pins at the front

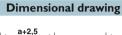


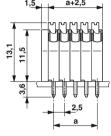






c**Sl**us 🖭 🕰 CCA

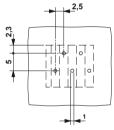


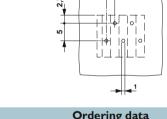




Drilling diagram

The zig-zag pinning starts at the right-hand position. Other pinning on request.





Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 2.5 mm, color: green			
PTSA 0,5/ 2-2,5-Z	1990009	250	
PTSA 0,5/ 3-2,5-Z	1990012	250	
PTSA 0,5/ 4-2,5-Z	1990025	250	
PTSA 0,5/ 5-2,5-Z	1990038	100	
PTSA 0,5/ 6-2,5-Z	1990041	100	
PTSA 0,5/ 7-2,5-Z	1990054	100	
PTSA 0,5/ 8-2,5-Z	1990067	100	
PTSA 0,5/ 9-2,5-Z	1990070	100	
PTSA 0,5/10-2,5-Z	1990083	100	
PTSA 0,5/11-2,5-Z	1990096	50	
PTSA 0,5/12-2,5-Z	1990106	50	
PTSA 0,5/13-2,5-Z	1990119	50	

PTSA 0,5/14-2,5-Z

PTSA 0,5/15-2,5-Z

PTSA 0,5/16-2,5-Z

1990122

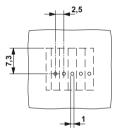
1990135

1990148

50

50

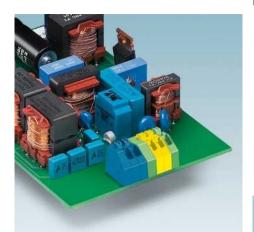
50



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 2.5 mm, color: green			
PTSA 0,5/ 2-2,5-F	1989748	250	
PTSA 0,5/ 3-2,5-F	1989751	250	
PTSA 0,5/ 4-2,5-F	1989764	250	
PTSA 0,5/ 5-2,5-F	1989777	100	
PTSA 0,5/ 6-2,5-F	1989780	100	
PTSA 0,5/ 7-2,5-F	1989793	100	
PTSA 0,5/ 8-2,5-F	1989803	100	
PTSA 0,5/ 9-2,5-F	1989816	100	
PTSA 0,5/10-2,5-F	1989829	100	
PTSA 0,5/11-2,5-F	1989832	50	
PTSA 0,5/12-2,5-F	1989845	50	
PTSA 0,5/13-2,5-F	1989858	50	
PTSA 0,5/14-2,5-F	1989861	50	
PTSA 0,5/15-2,5-F	1989874	50	
PTSA 0,5/16-2,5-F	1989887	50	

PTSA series

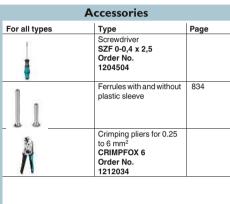
Angled spring-cage PCB terminal blocks up to 1.5 mm²



- Compact type with simple operation and direct plug-in method
- Pitch 3.5 mm
- Increase in the dielectric strength and the mechanical stability, thanks to zigzag pinning. The pinning process always begins from the front right position. Special pinning available on request
- Color coding and mixed pitch as an option

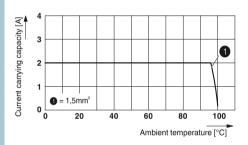
Notes:

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Current carrying capacity curve Type: PTSA 1,5/5-3,5-Z

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5

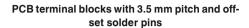


Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	$[A] / [mm^2]$
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm²]	/ [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	e cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PTSA 1,5/3,5-Z		PTS	A 1,5/3	3,5-F	
	21) / 1.5			21) / 1.5	
	400			250	
	3.5			3.5	
0 = 4 =		(00 40	0.5.4.5		100 10
0.5 - 1.5	0.5 - 1.5	/20 - 16	0.5 - 1.5	0.5 - 1.5	/ 20 - 16
	0.5 - 1 0.5 - 0.5			0.5 - 1 0.5 - 0.5	
	0.5 - 0.5			0.5 - 0.5	
	-/-			-/-	
	-/-		-	-/-	
	-			-	
III/3	III/2	11/2	III/3	III/2	11/2
250	400	630	200	250	400
4	4	4	2.5	2.5	2.5
В	С	D	В	С	D
300	-	300	300	-	300
2	-	2	2	-	2
24 - 16	-	24 - 16	24 - 16	-	24 - 16
В	С	D	В	С	D
	-	-		-	-
	•	-		-	-
-	-	-	-	-	-
	9			9	
	PA/I V0			PA / I V0	
1/	0.4 x 0.75	mm	1/	0.4 x 0.75	mm
1/	U.4 X U./5	mm		U.4 X U./5	mm

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50



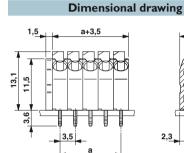


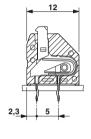


PCB terminal blocks with 3.5 mm pitch, solder pins at the front

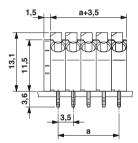
Dimensional drawing

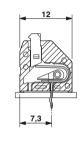






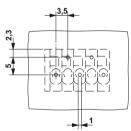
CCA

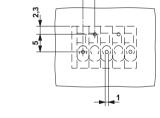




Drilling diagram

The zig-zag pinning starts at the right-hand position. Other pinning on request.





Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
PTSA 1,5/ 2-3,5-Z	1985195	250	
PTSA 1,5/ 3-3,5-Z	1985205	250	
PTSA 1,5/ 4-3,5-Z	1985218	250	
PTSA 1,5/ 5-3,5-Z	1985221	100	
PTSA 1,5/ 6-3,5-Z	1985234	100	
PTSA 1,5/ 7-3,5-Z	1985247	100	
PTSA 1,5/ 8-3,5-Z	1985250	100	
PTSA 1,5/ 9-3,5-Z	1985263	100	
PTSA 1,5/10-3,5-Z	1985276	100	
PTSA 1,5/11-3,5-Z	1985289	50	
PTSA 1,5/12-3,5-Z	1985292	50	
PTSA 1,5/13-3,5-Z	1985302	50	
		-	

1985315

1985328

1985331

50

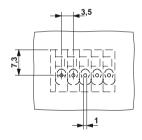
50

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PTSA 1,5/14-3,5-Z

PTSA 1,5/15-3,5-Z

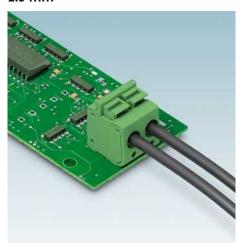
PTSA 1,5/16-3,5-Z



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
3.5 mm pitch, color: green			
PTSA 1,5/ 2-3,5-F	1984963	250	
PTSA 1,5/ 3-3,5-F	1984976	250	
PTSA 1,5/ 4-3,5-F	1984989	250	
PTSA 1,5/ 5-3,5-F	1984992	100	
PTSA 1,5/ 6-3,5-F	1985001	100	
PTSA 1,5/ 7-3,5-F	1985014	100	
PTSA 1,5/ 8-3,5-F	1985027	100	
PTSA 1,5/ 9-3,5-F	1985030	100	
PTSA 1,5/10-3,5-F	1985043	100	
PTSA 1,5/11-3,5-F	1985056	50	
PTSA 1,5/12-3,5-F	1985069	50	
PTSA 1,5/13-3,5-F	1985072	50	
PTSA 1,5/14-3,5-F	1985085	50	
PTSA 1,5/15-3,5-F	1985098	50	
PTSA 1,5/16-3,5-F	1985108	50	

PTS series

Horizontal PCB terminal block for conductor cross sections of up to 2.5 mm²



- Conductor connection with direct plugin method
- 5.0 mm pitch
- 7.5 mm pitch available on request
- Conductor cross section up to 2.5 mm²
- Finger-operated release button
- Test connection
- Compact design

Notes:

A load current of 16 A is possible for a cable cross section of 2.5 $\mbox{mm}^2.$

 $^{\rm 1})$ For 2.5 mm² solid conductor type, please observe the installation note in the data sheet.

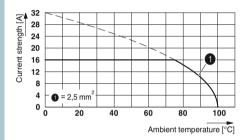
2) Please observe derating curve.

Accessories			
For all types	Type Screwdriver SZF 0-0,4 x 2,5 Order No. 1204504	Page	
]]	Ferrules with and without plastic sleeve	834	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		

Current carrying capacity curve

Type: PTS 1,5/5-5,0-H

Tested in accordance with DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	,
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	-
Drill hole diameter / pin dimensions	[mm]
·	

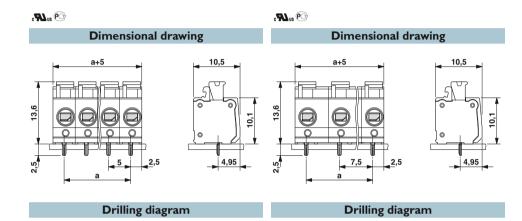
PTS 1,5/5,0-H		PTS	S 1,5/7,	5-H	
	122) / 2,51)			122) / 2,51)	
	400			630	
-					
	5			7.5	
0.14 - 2.5	,	.5 / 26 - 14	0.14 - 2.5) / 0.14 - 2	.5 / 26 - 14
-	0.25 - 1.5			0.25 - 1.5	
	0.25 - 1.5			0.25 - 1.5	
-	-/-			-/-	
	-			-	
	-			-	
III/3	III/2	II/2	III/3	III/2	II / 2
250	400	630	400	630	1000
4	4	4	6	6	6
В	С	D	В	С	D
300	-	300	300	-	300
10	-	10	10	-	10
26 - 14	-	26 - 14	26 - 14	-	26 - 14
В	С	D	В	С	D
-	-	-		-	-
	-	-	_	-	-
-	-	-	-	-	-
	8		8		
	PA/I		PA / I		
	V0		V0		
1.2 / 0.83 x 0.5 mm		1.2	0.83 x 0.5	mm	

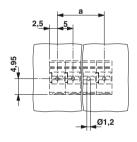
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

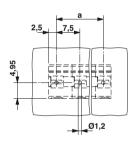




Spring-cage PCB terminal block, 5.0 mm pitch Spring-cage PCB terminal block, 7.5 mm pitch







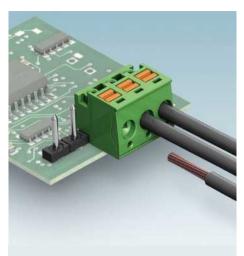
Ordering data

Ordering	data		
Type	Order No.	Pcs. / Pkt.	Type
5.0 mm pitch, color: green			
PTS 1,5/ 2-5,0-H	1792863	250	
PTS 1,5/ 3-5,0-H	1792876	250	
PTS 1,5/ 4-5,0-H	1792889	250	
PTS 1,5/ 5-5,0-H	1792892	100	
PTS 1,5/ 6-5,0-H	1792902	100	
PTS 1,5/ 7-5,0-H	1792915	100	
PTS 1,5/ 8-5,0-H	1792928	100	
PTS 1,5/ 9-5,0-H	1792931	100	
PTS 1,5/10-5,0-H	1792944	100	
PTS 1,5/11-5,0-H	1792957	50	
PTS 1,5/12-5,0-H	1792960	50	
			7.5 mm p
			PTS 1,5/
			PTS 1 5/

туре	Order No.	PCS. / PKI.
7.5 mm pitch, color: green		
PTS 1,5/ 2-7,5-H	1703083	250
PTS 1,5/ 3-7,5-H	1703084	250
PTS 1,5/ 4-7,5-H	1703086	250
PTS 1,5/ 5-7,5-H	1703087	100
PTS 1,5/ 6-7,5-H	1703088	100
PTS 1,5/ 7-7,5-H	1703090	100
PTS 1,5/ 8-7,5-H	1703091	100
PTS 1,5/ 9-7,5-H	1703093	100
PTS 1,5/10-7,5-H	1703094	100
PTS 1,5/11-7,5-H	1703095	50
PTS 1,5/12-7,5-H	1703096	50

PTS series

Plugs with spring connection for pin strips



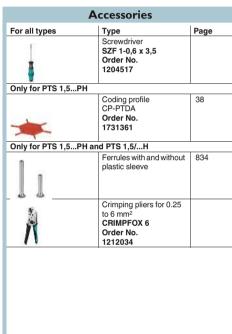
- Compact external dimensions
- Conductor connection with push-in technology
- 5.0 mm pitch
- Compatible with standard pin strips
- Connection cross section of up 2.5 mm²
- Coding option and test connection
- Monoblock design
- Pin strip with latching available

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

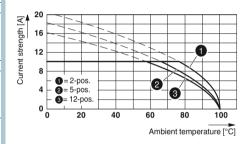
1) UL/CUL on request.

2) Please observe derating curve.



Representative derating curve

Type: PTS 1,5/...-PH-5,0 with PST 1,3/...-5,0
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1 No. of positions: 5

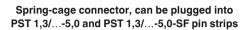


lechnical data	
Technical data in accordance to IEC / DIN VD	Σ
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	h the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation materia	al group
Inflammability class according to UL 94	
	·

PTS	PTS 1,5/PH-5,0			PST 1,3/5,0-SF		
	10^2) / 2.5			122)		
	400			320		
	5			5		
0.2 - 2.5	6 / 0.2 - 2.5 /	26 - 14		-/-/-		
	0.25 - 1.5			-		
	0.25 - 1			-		
	-/-			-/-		
	-			-		
	-			-		
III/3	III/2	II / 2	III/3	III/2	11/2	
250	400	600	250	320	600	
4	4	4	4	4	4	
В	С	D	В	С	D	
	-	-		-	-	
	-	-		-	-	
	-				-	
В	С	D	В	С	D	
	-	-		-	-	
	-	-		-	-	
-	-	-	-	-	-	
	8		<u> </u>			
	PA/I		PA / IIIa			
	V0			V0		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

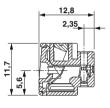


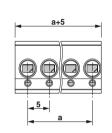




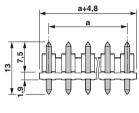
Pin strip with snap-lock fitting

Dimensional drawing

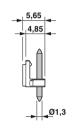


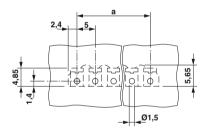


Dimensional drawing



P





Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTS 1,5/ 2-PH-5,0	1805517	250
PTS 1,5/ 3-PH-5,0	1805520	250
PTS 1,5/ 4-PH-5,0	1805533	250
PTS 1,5/ 5-PH-5,0	1805546	100
PTS 1,5/ 6-PH-5,0	1805559	100
PTS 1,5/ 7-PH-5,0	1805562	100
PTS 1,5/ 8-PH-5,0	1805575	100
PTS 1,5/ 9-PH-5,0	1805588	100
PTS 1,5/10-PH-5,0	1805591	100
PTS 1,5/11-PH-5,0	1805601	50
PTS 1,5/12-PH-5,0	1805614	50

Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-5,0-SF	1805627	250
PST 1,3/ 3-5,0-SF	1805630	250
PST 1,3/ 4-5,0-SF	1805643	250
PST 1,3/ 5-5,0-SF	1805656	100
PST 1,3/ 6-5,0-SF	1805669	100
PST 1,3/ 7-5,0-SF	1805672	100
PST 1,3/ 8-5,0-SF	1805685	100

PT 1.5 series

PCB terminal blocks with a screw connection up to 1.5 mm²



- High terminal block capacity, thanks to rectangular terminal block space
- Pitch 3.5 mm
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design with high current carrying capacity
- Plus/minus screw

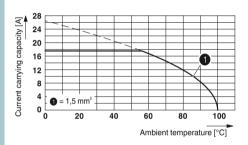
Notes:

- 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- $^2)$ When using ferrules, max. 125 V are only achieved in combination with surge voltage category/pollution degree II/2.

Accessories					
For all types	Туре	Page			
4 6	Marker cards SK 3,5/2,8	797			
į	Screwdriver SZS 0,4 x 2,5 Order No. 1205037				

Current carrying capacity curve

Type: PTA 1,5/5-3,5Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1 No. of positions: 5



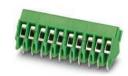
Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm²] /	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	e cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PT	1,5/3,5	i-H	PT	1,5/3,	5-V	PT	A 1,5/	3,5
	17.5¹) / 1.5	5	17.5¹) / 1.5		<u> </u>	17.51) / 1.5		
	200			200		200		
	3.5			3.5			3.5	
00.45	(00 4 5	100 10	0.0.4.5		(00 10			
0.2 - 1.5	/ 0.2 - 1.5	/ 26 - 16	0.2 - 1.5	/ 0.2 - 1.5	/ 26 - 16	0.14 - 1.5	/ 0.14 - 1.	5 / 26 - 16
	-	2).		-	2)		- 05 0 75	2)
C	0.25 - 0.75	-)		.25 - 0.75	-)	C	.25 - 0.75	-)
02-	0.34 / 0.2	- 0.5	02-	0.34 / 0.2	- 0.5	0.14	- 0.5 / 0.14	1-05
0.2	-	0.0	0.2	-	0.0		-	. 0.0
	-			-			-	
III/3	III/2	11/2	III/3	III/2	II / 2	III/3	III/2	II / 2
160	200	400	160	200	400	160	200	400
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300	300	-	300
10	-	10	10	-	10	10	-	10
26 - 16	-	26 - 16	26 - 16	-	26 - 16	26 - 16	-	26 - 16
В	С	D	В	С	D	В	С	D
-	-	-		-	-		-	-
	-		-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
	5			5			5	
	M2			M2		M2		
	0.22 - 0.25	5		0.22 - 0.25	5	0.22 - 0.25		5
	PA/I		PA / I			PA/I		
	V0			V0		V0		
1	.2 / 0.9 mi	m	1	.2 / 0.9 mi	m	1	.2 / 0.9 mi	m

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50





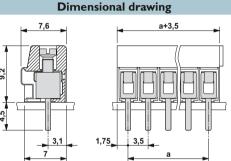


PCB terminal block, connection direction horizontal to the PCB

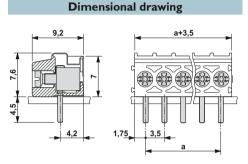
PCB terminal block, connection direction vertical to the PCB

PCB terminal block with 45° angled connection

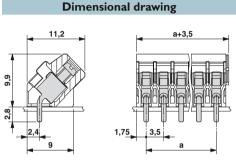




c SN us @ SEC CCA



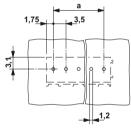
A us 🕝



Drilling diagram

Drilling diagram

Drilling diagram





1984727

1984730

1984743

1984756

50

50

50

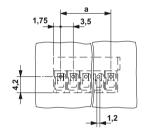
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PT 1,5/13-3,5-H

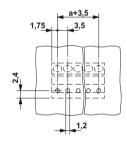
PT 1,5/14-3,5-H

PT 1,5/15-3,5-H

PT 1,5/16-3,5-H



Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: green		
PT 1,5/ 2-3,5-V	1984769	250
PT 1,5/ 3-3,5-V	1984772	250
PT 1,5/ 4-3,5-V	1984785	250
PT 1,5/ 5-3,5-V	1984798	100
PT 1,5/ 6-3,5-V	1984808	100
PT 1,5/ 7-3,5-V	1984811	100
PT 1,5/ 8-3,5-V	1984824	100
PT 1,5/ 9-3,5-V	1984837	100
PT 1,5/10-3,5-V	1984840	100
PT 1,5/11-3,5-V	1984853	50
PT 1,5/12-3,5-V	1984866	50
PT 1,5/13-3,5-V	1984879	50
PT 1,5/14-3,5-V	1984882	50
PT 1,5/15-3,5-V	1984895	50
PT 1,5/16-3,5-V	1984905	50



	Ordering dat	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	3.5 mm pitch, color: green		
	PTA 1,5/ 2-3,5	1988956	250
	PTA 1,5/ 3-3,5	1988969	250
	PTA 1,5/ 4-3,5	1988972	250
	PTA 1,5/ 5-3,5	1988985	100
	PTA 1,5/ 6-3,5	1988998	100
	PTA 1,5/ 7-3,5	1989007	100
	PTA 1,5/ 8-3,5	1989010	100
	PTA 1,5/ 9-3,5	1989023	100
	PTA 1,5/10-3,5	1989036	100
	PTA 1,5/11-3,5	1989049	50
	PTA 1,5/12-3,5	1989052	50
	PTA 1,5/13-3,5	1989065	50
	PTA 1,5/14-3,5	1989078	50
	PTA 1,5/15-3,5	1989081	50
	PTA 1,5/16-3,5	1989094	50

PT 1.5 series

PCB terminal blocks with a screw connection up to 2.5 mm²



- High terminal block capacity, thanks to rectangular terminal block space
- 5.0 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design with high current carrying capacity
- Plus/minus screw

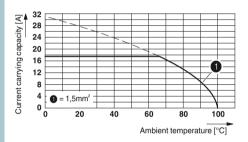
Notes:

- 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- $^2)$ When using ferrules, 250 V are only achieved in combination with surge voltage category/pollution degree II/2.



Current carrying capacity curve

Type: PT 1,5/5-5,0-H Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5

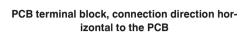


Technical data	
Technical data in accordance to IFO / DIN VIDE	
Technical data in accordance to IEC / DIN VDE	FA3./F 2
Rated current / conductor cross section	[A] / [mm ²
Rated insulation voltage for pollution degree 2	ĮV
Pitch	[mm
Connection capacity	
Solid / stranded [mm²]	/ [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with ferrules with plastic sleeve	[mm ²
Multi-conductor connection capacity (two conductors with the san	ne cross section)
Solid / stranded	[mm ²
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with TWIN ferrule with plastic sleeve	[mm ²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWG
General data	
Stripping length	[mm
Screw thread	
Tightening torque	[Nm
Type of insulation material / insulation material group)
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm

PT 1	,5/5,0)-H	PT	1,5/5,	0-V	PT	`A 1,5/	5,0
1	7.51) / 2.5	5		17.5¹) / 2.5	5		17.5¹) / 2.	5
=	400			400			400	
	5			5			5	
0.2 - 2.5 /	0.2 - 2.5	/ 26 - 14	0.2 - 2.5	/ 0.2 - 2.5	/ 26 - 14	0.14 - 2.5	/ 0.14 - 2.	5 / 26 - 14
0	.25 - 1.5 ²)		0.25 - 1.5 ²)		0.25 - 1.5 ²)
0	.25 - 1.5 ²)		0.25 - 1.5 ²)		0.25 - 1.5 ²)
	.75 / 0.2			0.75 / 0.2			- 1 / 0.14	
	25 - 0.34	,		0.25 - 0.34	,	0.25 - 0.342)		,
0	.5 - 0.75 ²	()		0.5 - 0.75 ²	*)).25 - 0.75	2)
III/3	III/2	II / 2	III / 3	III/2	II/2	III/3	III/2	II / 2
250	400	630	250	400	630	250	400	630
4	4	4	4	4	4	4	4	4
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300	300	-	300
18	-	10	18	-	10	15	-	10
26 - 12	-	26 - 12	26 - 12	-	26 - 12	26 - 12	-	26 - 12
В	С	D	В	С	D	В	С	D
	-	-		-	-		-	-
	-	-		-	-		-	-
	-	-	-	-	-	-	-	-
	5			5			5	
	M2,6			M2,6			M2,6	
	0.35 - 0.4		0.35 - 0.4			0.35 - 0.4		
	PA/I		PA / I			PA/I		
	V0		V0			V0		
1.	3 / 1.0 m	m	1	.3 / 1.0 mi	m	1	.3 / 1.0 mi	m

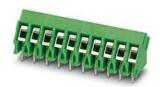
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00







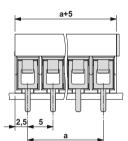
PCB terminal block, connection direction vertical to the PCB



PCB terminal block with 45° angled connection

CCA CB

Dimensional drawing

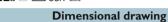


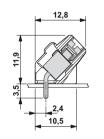
CCA CB

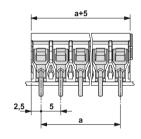
11,4

Dimensional drawing





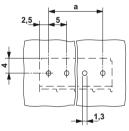




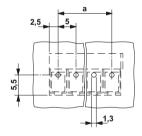
Drilling diagram

Drilling diagram

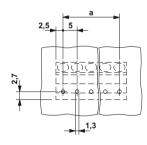
Drilling diagram







Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.0 mm pitch, color: green					
PT 1,5/ 2-5,0-V	1935310	250			
PT 1,5/ 3-5,0-V	1935323	250			
PT 1,5/ 4-5,0-V	1935336	250			
PT 1,5/ 5-5,0-V	1935349	100			
PT 1,5/ 6-5,0-V	1935352	100			
PT 1,5/ 7-5,0-V	1935365	100			
PT 1,5/ 8-5,0-V	1935378	100			
PT 1,5/ 9-5,0-V	1935381	100			
PT 1,5/10-5,0-V	1935394	100			
PT 1,5/11-5,0-V	1935404	50			
PT 1,5/12-5,0-V	1935417	50			
PT 1,5/13-5,0-V	1935420	50			
PT 1,5/14-5,0-V	1935433	50			
PT 1,5/15-5,0-V	1935446	50			
PT 1,5/16-5,0-V	1935459	50			



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
5.0 mm pitch, color: green				
PTA 1,5/ 2-5,0	1988804	250		
PTA 1,5/ 3-5,0	1988817	250		
PTA 1,5/ 4-5,0	1988820	250		
PTA 1,5/ 5-5,0	1988833	100		
PTA 1,5/ 6-5,0	1988846	100		
PTA 1,5/ 7-5,0	1988859	100		
PTA 1,5/ 8-5,0	1988862	100		
PTA 1,5/ 9-5,0	1988875	100		
PTA 1,5/10-5,0	1988888	100		
PTA 1,5/11-5,0	1988891	50		
PTA 1,5/12-5,0	1988901	50		
PTA 1,5/13-5,0	1988914	50		
PTA 1,5/14-5,0	1988927	50		
PTA 1,5/15-5,0	1988930	50		
PTA 1,5/16-5,0	1988943	50		

PT 1.5 series

Plugs with a screw connection of up to 1.5 mm²



- High terminal block capacity, thanks to rectangular terminal block space
- 3.5 mm and 5.0 mm pitches
- Highly flexible conductor protection for easy, repeated connecting
- Plugs with two integrated plug-in directions available, can be coded if desired
- Plus/minus screw
- Plugs with a rugged and reliable contact system
- Coding option
- Versions that can be aligned in the pitch are available on request

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

1) Please observe the derating curves. Derating curves of further combination options on request.

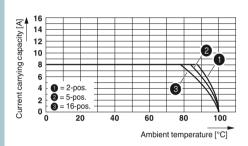
 $^2)$ When using ferrules, max. 125 V are only achieved in combination with surge voltage category/pollution degree II/2.

Accessories				
For all types	Туре	Page		
4 4	Marker cards SK 3,5/2,8	797		
-	Screwdriver SZS 0,4 x 2,5 Order No. 1205037			
*	Coding profile CP-PT 1,5 Order No. 1985564	38		

Representative derating curve

Type: PT 1,5/...PH-3,5

Tested in accordance with DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors wit	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
· ·	·

PT 1,5/PH-3,5			PT 1	,5/PVH	l-3,5
	81) / 1.5			81) / 1.5	
	200			200	
	3.5			3.5	
0.2 - 1.5	6 / 0.2 - 1.5	/ 26 - 16	0.2 - 1.5	/ 0.2 - 1.5	/ 26 - 16
	•			•	
(0.25 - 0.75	*)	().25 - 0.75 ²	2)
0.2 -	0.34 / 0.2	- 0.5	0.2 -	0.34 / 0.2	- 0.5
	-			-	
	-			-	
III / O	III. / O	11.70	III. / O	III. / O	11.70
III / 3 160	III / 2 200	11 / 2 400	160	III / 2 200	II / 2 400
2.5	2.5	2.5	2.5	2.5	2.5
2.5 B	2.5 C	2.5 D	2.5 B	2.5 C	2.5 D
300	-	300	300	-	300
10		10	10		10
26 - 16		26 - 16	26 - 16		26 - 16
В	С	D	B	С	D D
-	-	-	-	-	-
_	-			-	
	5			5	
	M2		M2		
	0.22 - 0.25	i	0.22 - 0.25		
	PA/I		PA/I		
	V0		VO		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50



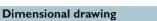


Plugs with screw connection, can be horizontally plugged onto PST 1,0/...-3,5 pin strips

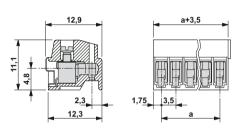
Plugs with screw connection, can be horizontally and vertically plugged onto PST 1,0/...-3,5 pin strips

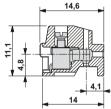
Dimensional drawing

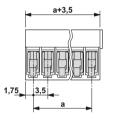












Ordering data				
Туре	Order No.	Pcs. / Pkt.		
3.5 mm pitch, color: green				
PT 1,5/ 2-PH-3,5	1984316	250		
PT 1,5/ 3-PH-3,5	1984329	250		
PT 1,5/ 4-PH-3,5	1984332	250		
PT 1,5/ 5-PH-3,5	1984345	100		
PT 1,5/ 6-PH-3,5	1984358	100		
PT 1,5/ 7-PH-3,5	1984361	100		
PT 1,5/ 8-PH-3,5	1984374	100		
PT 1,5/ 9-PH-3,5	1984387	100		
PT 1,5/10-PH-3,5	1984390	100		
PT 1,5/11-PH-3,5	1984400	50		
PT 1,5/12-PH-3,5	1984413	50		
PT 1,5/13-PH-3,5	1984426	50		
PT 1,5/14-PH-3,5	1984439	50		
PT 1,5/15-PH-3,5	1984442	50		
PT 1,5/16-PH-3,5	1984455	50		

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
3.5 mm pitch, color: green					
PT 1,5/ 2-PVH-3,5	1984015	250			
PT 1,5/ 3-PVH-3,5	1984028	250			
PT 1,5/ 4-PVH-3,5	1984031	250			
PT 1,5/ 5-PVH-3,5	1984044	100			
PT 1,5/ 6-PVH-3,5	1984057	100			
PT 1,5/ 7-PVH-3,5	1984060	100			
PT 1,5/ 8-PVH-3,5	1984073	100			
PT 1,5/ 9-PVH-3,5	1984086	100			
PT 1,5/10-PVH-3,5	1984099	100			
PT 1,5/11-PVH-3,5	1984109	50			
PT 1,5/12-PVH-3,5	1984112	50			
PT 1,5/13-PVH-3,5	1984125	50			
PT 1,5/14-PVH-3,5	1984138	50			
PT 1,5/15-PVH-3,5	1984141	50			
PT 1,5/16-PVH-3,5	1984154	50			

PT 1.5 series

Plugs with a screw connection up to 2.5 mm²



- High terminal block capacity, thanks to rectangular terminal block space
- 5.0 mm pitch
- Tension sleeve principle/Highly flexible conductor protection
- Plugs can be plugged in horizontally
- Plugs with a rugged and reliable contact
- PH version in monoblock design
- PT 1,5/...PVH-5,0 is also available as a version that can be aligned

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

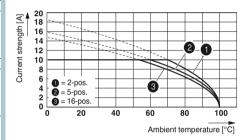
Recommended assembly available if required.

1) When using ferrules, 250 V are only achieved in combination with surge voltage category/pollution degree II/2.

Accessories For all types Туре Page Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Only for PT 1,5/...-PH-5,0 Coding profile CP-PTDA Order No. 1731361 Only for PT 1,5/...-PVH-5,0 Coding profile CP-PT 1,5 38

Representative derating curve

Type: PT 1,5/...-PH-5,0 CLIP with PST 1,3/...-5,0 Derating curve, determined according to DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 1.5 mm² Reduction factor = 0.8 Number of positions: See diagram



Technical data	
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	e [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	

PT 1	,5/PH-	-5,0	PT 1,5	/PH-5,	0 CLIP	PT 1	,5/PVI	H-5,0
	10/2.5			10 / 1.5			12/2.5	
	400			400			320	
	5			5			5	
0.2 - 2.5	/ 0.2 - 2.5	/ 26 - 12	0.2 - 1.5	/ 0.2 - 1.5	/ 26 - 14		/ 0.2 - 2.5	
	0.25 - 1				0.25 - 1.5 ¹	,		
	0.25 - 1			0.25 - 1			0.25 - 1.5 ¹)
	-/-			-/-			0.75 / 0.2	
	-			-			0.25 - 0.34	,
	-			-			0.5 - 0.75 ¹)
III / 3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	11/2
250	400	630	250	400	630	250	320	630
4	4	4	4	4	4	4	4	4
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300	300	-	300
10	-	10	10	-	10	15	-	10
28 - 14	-	28 - 14	28 - 14	-	28 - 14	26 - 12	-	26 - 12
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300		-	-
5	-	5	5	-	5		-	-
26 - 14	-	26 - 14	26 - 14	-	26 - 14	-	-	-
	6			6			5	
	0.35 - 0.4			0.35 - 0.4		-	0.35 - 0.4	
	PA/I			PA/I		PA/I		
	V0			V0			V0	

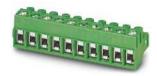
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00



Plugs with screw connection, can be horizontally plugged onto PST 1,3/...-5,0 pin strips



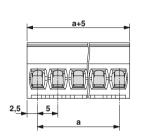
Plugs for "housing assembly", can be plugged onto PST 1,3/...-5,0 pin strips



Plugs with screw connection, can be horizontally and vertically plugged onto PST 1,3/...-5,0 pin strips

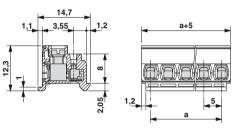
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Dimensional drawing

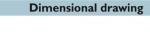


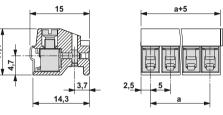
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Dimensional drawing



c¶Lus € ≦€ CCA





Ordering date	ta	
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-PH-5,0	1755583	250
PT 1,5/ 3-PH-5,0	1755596	250
PT 1,5/ 4-PH-5,0	1755606	250
PT 1,5/ 5-PH-5,0	1755619	100
PT 1,5/ 6-PH-5,0	1755622	100
PT 1,5/ 7-PH-5,0	1755635	100
PT 1,5/ 8-PH-5,0	1755648	100
PT 1,5/ 9-PH-5,0	1755651	100
PT 1,5/10-PH-5,0	1755664	100
PT 1,5/11-PH-5,0	1755677	50
PT 1,5/12-PH-5,0	1755680	50
PT 1,5/13-PH-5,0	1755693	50
PT 1,5/14-PH-5,0	1755703	50
PT 1,5/15-PH-5,0	1755716	50
PT 1,5/16-PH-5,0	1755729	50

C	ordering data		
Туре	(Order No.	Pcs. / Pkt.
5.0 mm pitch, color: gr	een		
PT 1,5/ 2-PH-5,0 CLIP		1755732	250
PT 1,5/ 3-PH-5,0 CLIP		1755745	250
PT 1,5/ 4-PH-5,0 CLIP		1755758	250
PT 1,5/ 5-PH-5,0 CLIP		1755761	100
PT 1,5/ 6-PH-5,0 CLIP		1755774	100
PT 1,5/ 7-PH-5,0 CLIP		1755787	100
PT 1,5/ 8-PH-5,0 CLIP		1755790	100
PT 1,5/ 9-PH-5,0 CLIP		1755800	100
PT 1,5/10-PH-5,0 CLIP		1755813	100
PT 1,5/11-PH-5,0 CLIP		1755826	50
PT 1,5/12-PH-5,0 CLIP		1755839	50
PT 1,5/13-PH-5,0 CLIP		1755842	50
PT 1,5/14-PH-5,0 CLIP		1755855	50
PT 1,5/15-PH-5,0 CLIP		1755868	50
PT 1,5/16-PH-5,0 CLIP		1755871	50

	Ordering dat	ta	
t.	Туре	Order No.	Pcs. / Pkt
	5.0 mm pitch, color: green		
	PT 1,5/ 2-PVH-5,0	1934861	250
	PT 1,5/ 3-PVH-5,0	1934874	250
	PT 1,5/ 4-PVH-5,0	1934887	250
	PT 1,5/ 5-PVH-5,0	1934890	100
	PT 1,5/ 6-PVH-5,0	1934900	100
	PT 1,5/ 7-PVH-5,0	1934913	100
_	PT 1,5/ 8-PVH-5,0	1934926	100
	PT 1,5/ 9-PVH-5,0	1934939	100
	PT 1,5/10-PVH-5,0	1934942	100
_	PT 1,5/11-PVH-5,0	1934955	50
	PT 1,5/12-PVH-5,0	1934968	50
	PT 1,5/13-PVH-5,0	1934971	50
	PT 1,5/14-PVH-5,0	1934984	50
	PT 1,5/15-PVH-5,0	1934997	50
	PT 1,5/16-PVH-5,0	1935006	50

PT 2,5 series

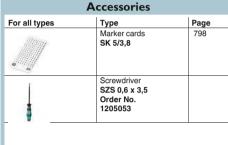
PCB terminal blocks with a screw connection up to 4 mm²



- High terminal block capacity, thanks to rectangular terminal block space
- 5.0 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design for larger cross sections
- Plus/minus screw

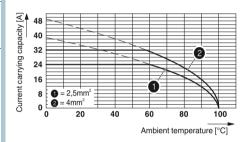
Notes:

- Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- $^2)$ When using ferrules, 250 V are only achieved in combination with surge voltage category/pollution degree II/2.
- 3) Use a hole diameter of 1.3 1.6 mm



Current carrying capacity curve

Type: PT 2,5/5-5,0-H Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm²] /	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	e cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PT	2,5/5,0	-H	PT	2,5/5,0	0-V
	321) / 4			321) / 4	
	400			400	
	5			5	
0.5 - 4	1/0.5-4/2			/0.5 - 4 / 2	20 - 10
	$0.5 - 2.5^2$			$0.5 - 2.5^2$	
	$0.5 - 2.5^2$		0.5 - 2.5 ²)		
	- 1.5 / 0.5 -			- 1.5 / 0.5 -	
	0.5 - 0.752			0.5 - 0.752	
	0.5 - 1.52)			0.5 - 1.5 ²)	
III/3	III/2	11/2	III / 3	III/2	11/2
250	400	630	250	400	630
4	4	4	4	4	4
В	С	D	В	С	D
300	-	300	300	-	300
20	-	10	20	-	10
20 - 12	-	20 - 12	20 - 12	-	20 - 12
В	С	D	В	С	D
-	-			-	-
-	-			-	-
-	-	-	-	-	-
	0.5			0.5	
	6.5 M3		-	6.5 M3	
				0.45 - 0.5	
	0.45 - 0.5 PA/I			PA / I	
	V0			V0	
1	.3 ³) / 1.0 m	m	- 1	3 ³) / 1.0 m	m
ı	.5-)/ 1.0 111			0-j/ 1.0 M	111

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00



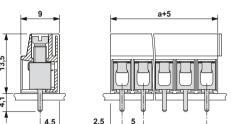


PCB terminal block, connection direction horizontal to the PCB

PCB terminal block, connection direction vertical to the PCB

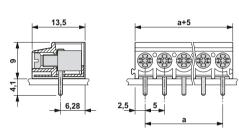
Dimensional drawing



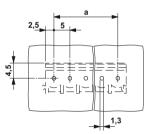


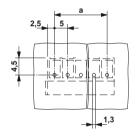
Dimensional drawing

CCA CB



Drilling diagram



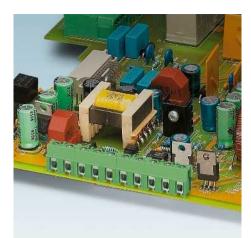


Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 2,5/ 2-5,0-H	1935776	250
PT 2,5/ 3-5,0-H	1935789	250
PT 2,5/ 4-5,0-H	1935792	250
PT 2,5/ 5-5,0-H	1935802	100
PT 2,5/ 6-5,0-H	1935815	100
PT 2,5/ 7-5,0-H	1935828	100
PT 2,5/ 8-5,0-H	1935831	100
PT 2,5/ 9-5,0-H	1935844	100
PT 2,5/10-5,0-H	1935857	100
PT 2,5/11-5,0-H	1935860	50
PT 2,5/12-5,0-H	1935873	50
PT 2,5/13-5,0-H	1935886	50
PT 2,5/14-5,0-H	1935899	50
PT 2,5/15-5,0-H	1935909	50
PT 2,5/16-5,0-H	1935912	50

Ordering data		
Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 2,5/ 2-5,0-V	1987724	250
PT 2,5/ 3-5,0-V	1987737	250
PT 2,5/ 4-5,0-V	1987740	250
PT 2,5/ 5-5,0-V	1987753	100
PT 2,5/ 6-5,0-V	1987766	100
PT 2,5/ 7-5,0-V	1987779	100
PT 2,5/ 8-5,0-V	1987782	100
PT 2,5/ 9-5,0-V	1987795	100
PT 2,5/10-5,0-V	1987805	100
PT 2,5/11-5,0-V	1987818	50
PT 2,5/12-5,0-V	1987821	50
PT 2,5/13-5,0-V	1987834	50
PT 2,5/14-5,0-V	1987847	50
PT 2,5/15-5,0-V	1987850	50
PT 2,5/16-5,0-V	1987863	50

PT 2,5 series

PCB terminal blocks with a screw connection up to 4 mm²



- High terminal block capacity, thanks to rectangular terminal block space
- 7.5 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design for larger cross sections and higher voltages
- Plus/minus screw

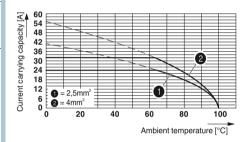
Notes:

- 1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- $^2)$ When using ferrules, 500 V are only achieved in combination with surge voltage category/pollution degree II/2.
- 3) Use a hole diameter of 1.3 1.6 mm

Accessories		
For all types	Туре	Page
• /	Marker cards SK 7,5/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	

Current carrying capacity curve

Type: PT 2,5/5-7,5-H Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
	_
Technical data in accordance to IEC / DIN VD	=
Rated current / conductor cross section	[A] / [mm²
Rated insulation voltage for pollution degree 2	[V
Pitch	[mm
Connection capacity	
Solid / stranded	[mm2] / [mm2] / AWG
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with ferrules with plastic sleeve	[mm ²
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²
Stranded with ferrules without plastic sleeve	[mm²
Stranded with TWIN ferrule with plastic sleeve	[mm ²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWC
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWC
General data	
Stripping length	[mm
Screw thread	
Tightening torque	[Nm
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm

	PT 2,5/7,5-H			P	Г 2,5/7,5	i-V		
		321) / 4			321) / 4			
		800			800			
		7.5			7.5			
	0.5 - 4	1/0.5-4/2	20 - 10	0.5 - 4	0.5 - 4 / 0.5 - 4 / 20 - 10			
		0.5 - 2.52)			0.5 - 2.52)			
		$0.5 - 2.5^2$			$0.5 - 2.5^2$)			
		- 1.5 / 0.5 -		0.5	- 1.5 / 0.5 -			
		0.5 - 0.75 ²)			0.5 - 0.75 ²)			
		0.5 - 1.52)		0.5 - 1.5 ²)				
	III/3	III/2	II / 2	III/3	III/2	11/2		
	500	800	1000	500	800	1000		
	6	6	6	6	6	6		
	В	С	D	В	С	D		
	300	150	300	300	150	300		
	20	20	10	20	20	10		
	20 - 12	20 - 12	20 - 12	20 - 12	20 - 12	20 - 12		
	В	С	D	В	С	D		
	-	-	-		-	-		
	-	-			-	-		
	-	-		-	-	-		
		6.5		6.5				
		М3		M3				
		0.45 - 0.5		0.45 - 0.5				
		PA/I		PA/I				
		V0		V0				
	1	.33) / 1.0 mi	m	1	.33) / 1.0 mi	m		
. —————————————————————————————————————								

No. of pos.	Dim. a [mm]		
2	7.50		
3	15.00		
4	22.50		
5	30.00		
6	37.50		
7	45.00		
8	52.50		
9	60.00		
10	67.50		
11	75.00		
12	82.50		



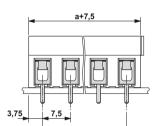


PCB terminal block, connection direction horizontal to the PCB

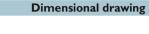
PCB terminal block, connection direction vertical to the PCB

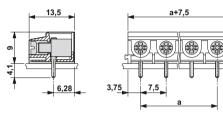
CCA CB

Dimensional drawing



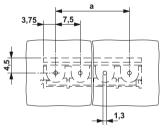
LANUS COA CA

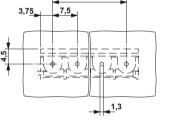




Drilling diagram

Drilling diagram







1988189

1988192

1988202

100

50

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PT 2,5/10-7,5-H

PT 2,5/11-7,5-H

PT 2,5/12-7,5-H

	a →
3,75	7,5
5,4,5	1,3

Ordering data						
Туре	Order No.	Pcs. / Pkt.				
7.5 mm pitch, color: green						
PT 2,5/ 2-7,5-V	1987957	250				
PT 2,5/ 3-7,5-V	1987960	250				
PT 2,5/ 4-7,5-V	1987973	250				
PT 2,5/ 5-7,5-V	1987986	100				
PT 2,5/ 6-7,5-V	1987999	100				
PT 2,5/ 7-7,5-V	1988008	100				
PT 2,5/ 8-7,5-V	1988011	100				
PT 2,5/ 9-7,5-V	1988024	100				
PT 2,5/10-7,5-V	1988037	100				
PT 2,5/11-7,5-V	1988040	50				
PT 2,5/12-7,5-V	1988053	50				

PT 2,5 plug-in system

Multi-plug-in system with a screw connection up to 4 mm²



- Plug-in system with five plug-in options in all
- 5.0 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- High stability, thanks to the L-shaped base strips
- Reliable contact system with high current carrying capacity
- Patented coding available if desired
- Compatible with standard pin strips PST 1,3...

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

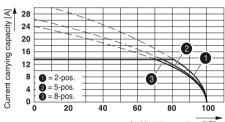
Larger numbers of positions on request.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories For all types Туре Page Coding profile CP-PT 2.5 38 Order No. 1733398 Screwdriver SZS 0,6 x 3,5 Order No. 1205053

Representative derating curve

Type: PT 2,5/...-PVH-5,0 with PST 1,3...-LH-5,0 Derating curve determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Reduction factor = 0.8 Conductor cross section: 4 mm²



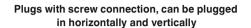
Ambient temperature [°C]

Technical data				
Technical data in accordance to IEC / DIN VDI	E			
Rated current / conductor cross section	[A] / [mm ²			
Rated insulation voltage for pollution degree 2	VJ			
Pitch	[mm			
Connection capacity				
Solid / stranded	[mm ²] / [mm ²] / AWG			
Stranded with ferrules without plastic sleeve	[mm ²			
Stranded with ferrules with plastic sleeve	[mm ²			
Multi-conductor connection capacity (two conductors with	the same cross section)			
Solid / stranded	[mm ²			
Stranded with ferrules without plastic sleeve	[mm²			
Stranded with TWIN ferrule with plastic sleeve	[mm ²			
Insulation coordination				
Surge voltage category / pollution degree				
Rated insulation voltage	[V			
Rated surge voltage	[kV			
Approval data (UL/CUL)	Use Group			
Nominal voltage	[V			
Nominal current	[A			
Connection capacity AWG	AWO			
Approval data (CSA)	Use Group			
Nominal voltage	[V			
Nominal current	[A			
Connection capacity AWG	AWG			
General data				
Stripping length	[mm			
Screw thread				
Tightening torque	[Nm			
Type of insulation material / insulation material	group			
Inflammability class according to UL 94				

	PT 2,5/PVH-5,0		PST 1,3/LH-5,0			PST 1,3/LV-5,0				
<u>]</u> /]	13.5¹) / 4				13.5			13.5		
]		320			400		400			
1]	5			5			5			
'	3			3			Ü			
à	0.5 - 4	1/0.5-4/2	20 - 12		-/-/-			-/-/-		
3_ 2] 2]		0.5 - 2.5			-		-			
2]		0.5 - 2.5			-		-			
	0.5	- 1.5 / 0.5 -	1.5		-/-		-/-			
<u>]</u>]]		0.5 - 0.75 0.5 - 1.5		· · ·						
1		0.5 - 1.5								
	III/3	III/2	II/2	III/3	III/2	II / 2	III/3	III/2	11/2	
]	250	320	630	250	400	400	250	400	400	
<u>']</u> ']	4	4	4	4	4	4	4	4	4	
р	В	С	D	В	С	D	В	С	D	
]	300	-	300	300	-	300	300	-	300	
<u>']</u> 3	10	-	10	10	-	10	10	-	10	
3	26 - 12	26 - 12	26 - 12	-	-	-	-	-	-	
р	В	С	D	В	С	D	В	С	D	
	-	-	-		-	-		-	-	
<u>']</u> .]	-	-	-		-	-		-	-	
à	-	-	-	-	-	-	-	-	-	
1]_	8						<u> </u>			
.1		M3								
1]		0.45 - 0.5 PA / I		PA / IIIb			PA / IIIb			
_	V0			V0			V0			
_		VO			VO			VO		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00





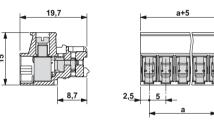


Pin strip for PT 2,5 connector, Plug-in direction parallel to the PCB



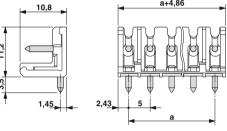
Pin strip for PT 2,5 plug, Plug-in direction vertical to the PCB

c**91**0s @ **Dimensional drawing**

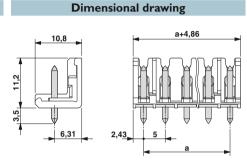




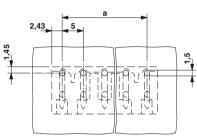
PLus 🕑



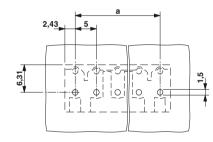
PLus 🕑



Drilling diagram







Ordering data		Ordering data		Ordering data				
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green			Pitch 5.0 mm, color: Black			Pitch 5.0 mm, color: Black		
PT 2,5/ 2-PVH-5,0	1704165	250	PST 1,3/ 2-LH-5,0	1704275	250	PST 1,3/ 2-LV-5,0	1704437	250
PT 2,5/ 3-PVH-5,0	1704178	250	PST 1,3/ 3-LH-5,0	1704291	250	PST 1,3/ 3-LV-5,0	1704453	250
PT 2,5/ 4-PVH-5,0	1704181	250	PST 1,3/ 4-LH-5,0	1704327	250	PST 1,3/ 4-LV-5,0	1704482	250
PT 2,5/ 5-PVH-5,0	1704194	100	PST 1,3/ 5-LH-5,0	1704356	100	PST 1,3/ 5-LV-5,0	1704518	100
PT 2,5/ 6-PVH-5,0	1704204	100	PST 1,3/ 6-LH-5,0	1704369	100	PST 1,3/ 6-LV-5,0	1704521	100
PT 2,5/ 7-PVH-5,0	1704217	100	PST 1,3/ 7-LH-5,0	1704372	100	PST 1,3/ 7-LV-5,0	1704534	100
PT 2,5/ 8-PVH-5,0	1704220	100	PST 1,3/ 8-LH-5,0	1704385	100	PST 1,3/ 8-LV-5,0	1704547	100

Connection technology for building and LED applications

PST series

Pin strips for COMBICON compact connector



- Reflow solderable pin strip, optimized for COMBICON compact connectors
- Pitch 3.5 mm
- Pin geometry caring on the plug
- Various pin lengths and pin geometries available on request
- Pin strip available in machine-compatible packaging (tube magazine or tape)
- Pin strip with a pad for the suction pipette pushed over it for optional taped packaging

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

These items are also available in larger unit packs.

11/2

25

D

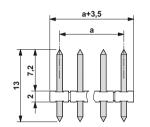
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

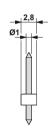


Pin strip, plug-in direction vertical to the PCB

c¶us € ≦€ CCA

Dimensional drawing

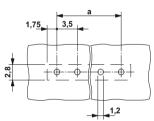




Pcs. / Pkt.

50 50

50



Technical data			
Technical data in accordance to IEC / DIN VDE			
Rated current	[A]		8
Rated insulation voltage for pollution degree 2	[V]		250
Pitch	[mm]	-	3.5
Insulation coordination			
Surge voltage category / pollution degree		III/3	III/2
Rated insulation voltage	[V]	160	250
Rated surge voltage	[kV]	2.5	2.5
Approval data (UL/CUL)	Use Group	В	С
Nominal voltage	[V]	300	-
Nominal current	[A]	10	-
Connection capacity AWG	AWG	-	-
Approval data (CSA)	Use Group	В	С
Nominal voltage	[V]	-	-
Nominal current	[A]	-	-
Connection capacity AWG	AWG	-	-
General data			
Type of insulation material / insulation material group			PA / IIIa
Inflammability class according to UL 94			V0
Drill hole diameter / pin dimensions	[mm]		1.2 / 1 mm

		Order	ing data
		Туре	Order No.
No. of pos.	Dim. a [mm]	Pitch 3.5 mm, color: Black	
2	3.50	PST 1,0/ 2-3,5	1945096
3	7.00	PST 1,0/ 3-3,5	1945106
4	10.50	PST 1,0/ 4-3,5	1945119
5	14.00	PST 1,0/ 5-3,5	1945122
6	17.50	PST 1,0/ 6-3,5	1945135
7	21.00	PST 1,0/ 7-3,5	1945148
8	24.50	PST 1,0/ 8-3,5	1945151
9	28.00	PST 1,0/ 9-3,5	1945164
10	31.50	PST 1,0/10-3,5	1945177
11	35.00	PST 1,0/11-3,5	1945180
12	38.50	PST 1,0/12-3,5	1945193
13	42.00	PST 1,0/13-3,5	1945203
14	45.50	PST 1,0/14-3,5	1945216
15	49.00	PST 1,0/15-3,5	1945229
16	52.50	PST 1,0/16-3,5	1945232



Taped pin strip with 3.5 mm pitch

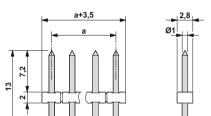


Pin strip, plug-in direction horizontal to the PCB

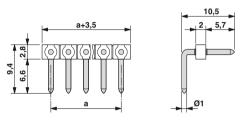


Dimensional drawing

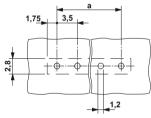


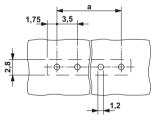


Dimensional drawing



Drilling diagram





Type Order No. Pcs. / Pkt. Pitch 3.5 mm, color: Black 7 7 PST 1,0/ 2-3,5 R24 1720233 330 PST 1,0/ 3-3,5 R24 1720246 330 PST 1,0/ 4-3,5 R24 1995525 330 PST 1,0/ 5-3,5 R56 1720259 250 PST 1,0/ 6-3,5 R56 1720262 250 PST 1,0/ 7-3,5 R56 1995538 250 PST 1,0/ 8-3,5 R56 1720275 250 PST 1,0/ 9-3,5 R56 1995541 250 PST 1,0/10-3,5 R56 1720288 250 PST 1,0/11-3,5 R56 1720291 250	Ordering	g data	
PST 1,0/ 2-3,5 R24 1720233 330 PST 1,0/ 3-3,5 R24 1720246 330 PST 1,0/ 4-3,5 R24 1995525 330 PST 1,0/ 5-3,5 R56 1720259 250 PST 1,0/ 6-3,5 R56 1720262 250 PST 1,0/ 7-3,5 R56 1995538 250 PST 1,0/ 8-3,5 R56 1720275 250 PST 1,0/ 8-3,5 R56 1995541 250 PST 1,0/ 9-3,5 R56 1995541 250	Туре	Order No.	Pcs. / Pkt.
PST 1,0/3-3,5 R24 1720246 330 PST 1,0/4-3,5 R24 1995525 330 PST 1,0/5-3,5 R56 1720259 250 PST 1,0/6-3,5 R56 1720262 250 PST 1,0/7-3,5 R56 1995538 250 PST 1,0/8-3,5 R56 1720275 250 PST 1,0/9-3,5 R56 1995541 250 PST 1,0/10-3,5 R56 1720288 250	Pitch 3.5 mm, color: Black		
PST 1,0/ 4-3,5 R24 1995525 330 PST 1,0/ 5-3,5 R56 1720259 250 PST 1,0/ 6-3,5 R56 1720262 250 PST 1,0/ 7-3,5 R56 1995538 250 PST 1,0/ 8-3,5 R56 1720275 250 PST 1,0/ 9-3,5 R56 1995541 250 PST 1,0/10-3,5 R56 1720288 250	PST 1,0/ 2-3,5 R24	1720233	330
PST 1,0/5-3,5 R56 1720259 250 PST 1,0/6-3,5 R56 1720262 250 PST 1,0/7-3,5 R56 199538 250 PST 1,0/8-3,5 R56 1720275 250 PST 1,0/9-3,5 R56 1995541 250 PST 1,0/10-3,5 R56 1720288 250	PST 1,0/ 3-3,5 R24	1720246	330
PST 1,0/ 6-3,5 R56 1720262 250 PST 1,0/ 7-3,5 R56 1995538 250 PST 1,0/ 8-3,5 R56 1720275 250 PST 1,0/ 9-3,5 R56 1995541 250 PST 1,0/10-3,5 R56 1720288 250	PST 1,0/ 4-3,5 R24	1995525	330
PST 1,0/ 7-3,5 R56 1995538 250 PST 1,0/ 8-3,5 R56 1720275 250 PST 1,0/ 9-3,5 R56 1995541 250 PST 1,0/10-3,5 R56 1720288 250	PST 1,0/ 5-3,5 R56	1720259	250
PST 1,0/8-3,5 R56 1720275 250 PST 1,0/9-3,5 R56 1995541 250 PST 1,0/10-3,5 R56 1720288 250	PST 1,0/ 6-3,5 R56	1720262	250
PST 1,0/ 9-3,5 R56 1995541 250 PST 1,0/10-3,5 R56 1720288 250	PST 1,0/ 7-3,5 R56	1995538	250
PST 1,0/10-3,5 R56 1720288 250	PST 1,0/ 8-3,5 R56	1720275	250
·	PST 1,0/ 9-3,5 R56	1995541	250
PST 1,0/11-3,5 R56 1720291 250	PST 1,0/10-3,5 R56	1720288	250
	PST 1,0/11-3,5 R56	1720291	250

	1,75	a 3,5 ◀	-
10		Q Q Q	

Ordering (data	
Туре	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
PST 1,0/ 2-H-3,5	1737019	50
PST 1,0/ 3-H-3,5	1737022	50
PST 1,0/ 4-H-3,5	1737035	50
PST 1,0/ 5-H-3,5	1737048	50
PST 1,0/ 6-H-3,5	1737051	50
PST 1,0/ 7-H-3,5	1737064	50
PST 1,0/ 8-H-3,5	1737077	50
PST 1,0/ 9-H-3,5	1737080	50
PST 1,0/10-H-3,5	1737093	50
PST 1,0/11-H-3,5	1737103	50
PST 1,0/12-H-3,5	1737116	50
PST 1,0/13-H-3,5	1737129	50
PST 1,0/14-H-3,5	1737132	50
PST 1,0/15-H-3,5	1737145	50
PST 1,0/16-H-3,5	1737158	50

Connection technology for building and LED applications

PST series

Pin strips for COMBICON compact connector



Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 388.

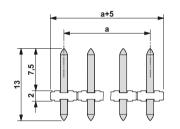
These items are also available in larger unit packs.

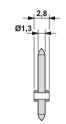
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.



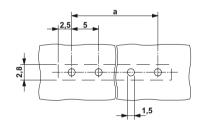
Pin strip, plug-in direction vertical to the PCB

Dimensional drawing





Drilling diagram



		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 5.0 mm, color: Black		
2	5.00	PST 1,3/ 2-5,0	1933189	50
3	10.00	PST 1,3/ 3-5,0	1933192	50
4	15.00	PST 1,3/ 4-5,0	1933202	50
5	20.00	PST 1,3/ 5-5,0	1933215	50
6	25.00	PST 1,3/ 6-5,0	1933228	50
7	30.00	PST 1,3/ 7-5,0	1933231	50
8	35.00	PST 1,3/ 8-5,0	1933244	50
9	40.00	PST 1,3/ 9-5,0	1933257	50
10	45.00	PST 1,3/10-5,0	1933260	50
11	50.00	PST 1,3/11-5,0	1933273	50
12	55.00	PST 1,3/12-5,0	1933286	50
13	60.00	PST 1,3/13-5,0	1933299	50
14	65.00	PST 1,3/14-5,0	1933309	50
15	70.00	PST 1,3/15-5,0	1933312	50
16	75.00	PST 1,3/16-5,0	1933325	50

- Reflow solderable pin strip, optimized for COMBICON compact connectors

- 5.0 mm pitch
- Pin geometry caring on the plug
- Various pin lengths and pin geometries available on request
- Pin strip available in machine-compatible packaging (tube magazine or tape)
- Pin strip with a pad for the suction pipette pushed over it for optional taped packaging

Technical data in accordance to IEC / DIN VDE		
Rated current	[A]	
Rated insulation voltage for pollution degree 2	[V]	
Pitch	[mm]	
Insulation coordination		
Surge voltage category / pollution degree		III/3
Rated insulation voltage	[V]	250
Rated surge voltage	[kV]	4
Approval data (UL/CUL)	Jse Group	В
Nominal voltage	[V]	300
Nominal current	[A]	16
Connection capacity AWG	AWG	-
Approval data (CSA)	Jse Group	В
Nominal voltage	[V]	300
Nominal current	[A]	5
Connection capacity AWG	AWG	-
General data		
Type of insulation material / insulation material group		
Inflammability class according to UL 94		
Drill hole diameter / pin dimensions	[mm]	

12	
320	
5	
III/2	II / 2
320	400
4	4
С	D
-	300
-	10
-	-
С	D
-	300
-	5
-	-
A / Illa	
VO	

Ш

PA 1.5 / 1.3 mm



Taped pin strip with 5.0 mm pitch

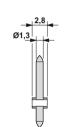


Pin strip, plug-in direction horizontal to the PCB

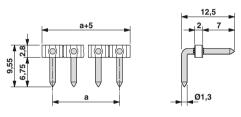


Dimensional drawing

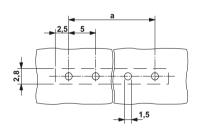


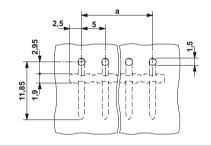


Dimensional drawing



Drilling diagram





Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 5.0 mm, color: Black				
PST 1,3/ 2-5,0 R24	1720301	330		
PST 1,3/ 3-5,0 R24	1713169	330		
PST 1,3/ 4-5,0 R56	1720314	250		
PST 1,3/ 5-5,0 R56	1720327	250		
PST 1,3/ 6-5,0 R56	1720330	250		
PST 1,3/ 7-5,0 R56	1720343	250		
PST 1,3/ 8-5,0 R56	1720356	250		
·				

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
DOT 4 0/0 U.S.O.	1005005	0.50		
PST 1,3/ 2-H-5,0	1995635	250		
PST 1,3/ 3-H-5,0	1705478	250		
PST 1,3/ 4-H-5,0	1705481	100		
PST 1,3/ 5-H-5,0	1705494	100		
PST 1,3/ 6-H-5,0	1705504	100		
PST 1,3/ 7-H-5,0	1717301	100		
PST 1,3/ 8-H-5,0	1717314	100		
PST 1,3/ 9-H-5,0	1717327	100		
PST 1,3/10-H-5,0	1717330	100		
PST 1,3/11-H-5,0	1717343	50		
PST 1,3/12-H-5,0	1717356	50		
PST 1,3/13-H-5,0	1717369	50		
PST 1,3/14-H-5,0	1717372	50		
PST 1,3/15-H-5,0	1717385	50		
PST 1,3/16-H-5,0	1717398	50		

FOPT series

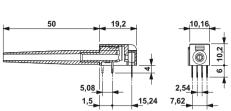
FOPT 2,2-T/R FO fast connect PCB terminal blocks



- Integrated transmit or receive diode
- Connection without fiber pretreatment, easily cut to length with fiber cutter **IBS RL FOC**
- Increased operating convenience, thanks to the direct plug-in method with release button
- Stability through additional strain relief
- Bend protection sleeve included in delivery

Notes:

If the coupled optical power is ≥ -21.6 dBM, data output switches to LOW (inversion of optical data signal).



Technical data Data rate

Transmitter

Receiver

Forward current

Supply voltage

Connection capacity

Transmission length

Ambient temperature (operation)

Ambient temperature (storage/transport)

Optical transmission capacity (at 60 mA and 25°C)

Forward voltage (with 60 mA forward current)

Optical peak wavelength (0 to 70°C)

Optical receiver sensitivity (0 to 70°C)

Optical overdrive threshold (0 to 70°C)



FO fast connection for PCB term. blocks with receive diode



Technical data

5.00 Mbps to 50 m 0 °C ... 70 °C -25 °C ... 85 °C

-21.60 dBm

4.75 V DC ... 5.25 V DC

980/1000 μm 2.2 mm ±0.07 mm

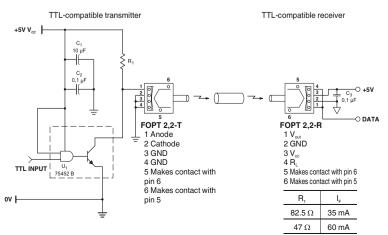
Polymer fiber (in acc. with IEC 60 793-2 type A4a) Diameter of outer sheath FO PCB terminal block with receive diode Color: Black FO PCB terminal block with transmit diode Color: green Bend protection sleeve

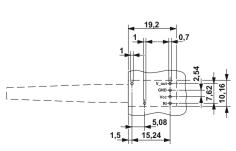
	-
Fiber cutter , for quick and easy mounting of fiber optic cables wit the Ruggedline connector	h

FOPT 2,2-R	1907924	10
Accessories	•	
KST-POF	1933011	10
IBS RL FOC	2725147	1

Ordering data

Recommended wiring





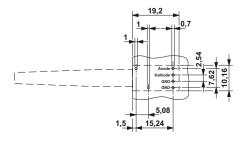


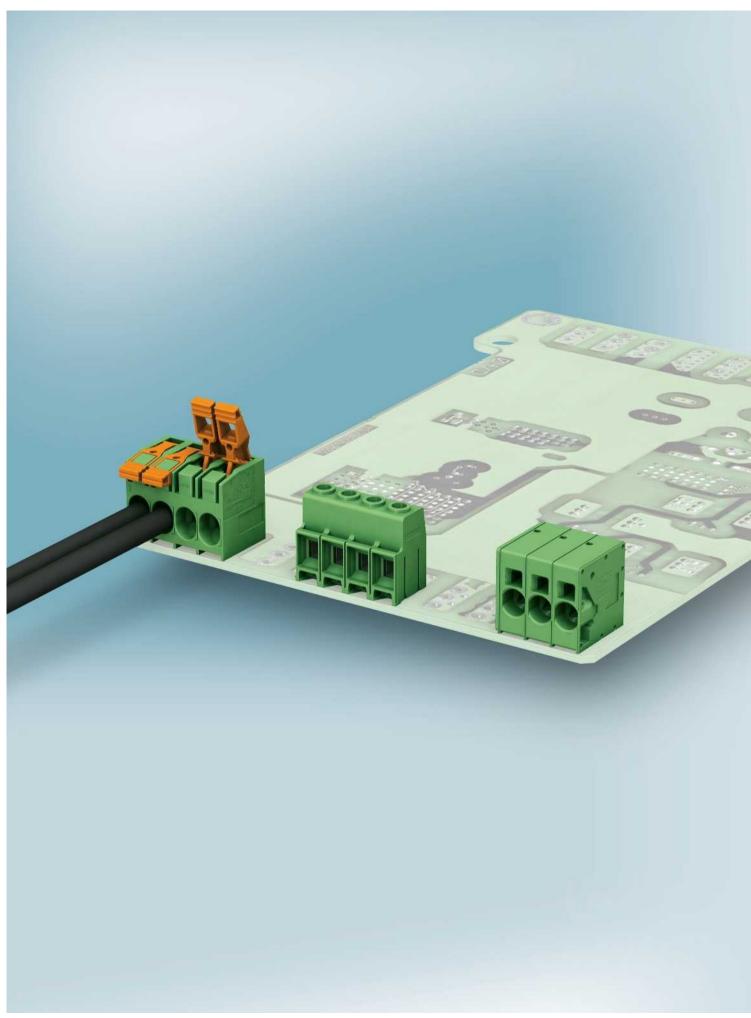
FO fast connection for PCB term. blocks with transm. diode



	Technical data
5.00 Mbps to 50 m 0 °C 70 °C -25 °C 85 °C	
-5.3 dBm0.5 dBm max. 60 mA 1.8 V ≤ 660 mm	
-	
-	
-	
000/4000	
980/1000 μm 2.2 mm ±0.07 mm	
	Ordering data

Ordering data			
FOPT 2,2-T	1907911	10	
Accessories			
KST-POF	1933011	10	
IBS RL FOC	2725147	1	





PCB terminal blocks

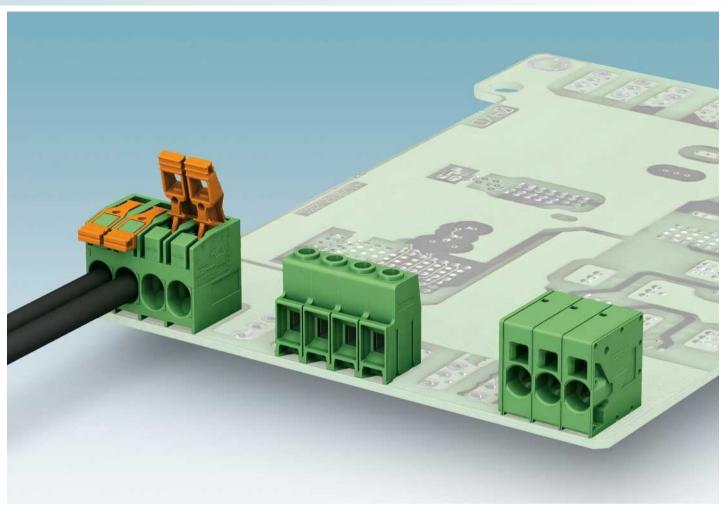
High-performance PCB terminal blocks provide connection options for conductors with cross sections of 0.2 to 35 mm². The conductors are easily connected using the tension sleeve principle or the spring-cage method. This, therefore, eliminates the need for complex and costly auxiliary constructions with ring cable lugs, upstream DIN rails or modular terminal block packag-

The particularly powerful screw PCB terminal block, MKDSP 25, is designed for currents up to 125 A and has unlimited UL approval up to 600 V or 1000 V according to IEC/DIN VDE. It is connected quickly and reliably to the PCB by means of wave soldering.

The PCB terminal blocks with push-in spring connection in the SPT series (Spring Print Terminal) enable quick and userfriendly conductor connection. Stranded conductors with ferrules or solid conductors can be inserted directly into the terminal point quickly and without tools.

General	440
PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²	443
Horizontal connection direction, pitch 6.35/7.62/9.52 mm	443
600 V-UL, horizontal connection direction, pitch 6.35/9.52 mm	445
Angled connection direction, pitch 6.35/9.5 ² mm	447
Double-level design, pitch 6.35/9.52 mm	449
PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²	451
Horizontal connection direction, pitch 10.16/12.7 mm	451
600 V-UL, horizontal connection direction, pitch 10.16/12.7 mm	453
PCB terminal blocks with screw connection, MKDSP 25 series, up to 125 A/35 mm ²	453
Horizontal connection direction, pitch 15 mm	453
Special designs with screw connection, KDS 10, Front 4 series, up to 76 A, 32 A/16 mm ² , 4 mm ²	453
Feed-through PCB terminal blocks, pitch 10 mm	453
Front PCB terminal blocks, pitch 6.35/7.62 mm	459
PCB terminal blocks with push-in spring connection, SPT series, up to 41 A/6 mm², 16 mm²	463
Horizontal and vertical connection direction, pitch 7.5 mm	463
Horizontal and vertical connection direction, pitch 10 mm	465
PCB terminal blocks with push-lock spring connection, PL series, up to 41 A, 76 A/6 mm ² , 16 mm ²	470
Horizontal and angled connection direction, pitch 7.5 mm	470
Horizontal design up to 10 mm pitch	473
PCB terminal blocks with push-lock spring connection for the reflow process, PTSPL series up to 41 A/6 mm ²	475
Horizontal design without insulating housing	475
PCB terminal blocks with spring-cage connection, ZFKDS series up to 41 A, 76 A/6 mm ² , 16 mm ²	477
Angled connection direction, pitch 7.5 mm	477
Angled connection direction, pitch 10 mm	479

General

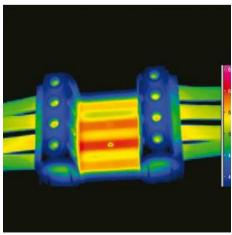


125 A via the PCB? It works!

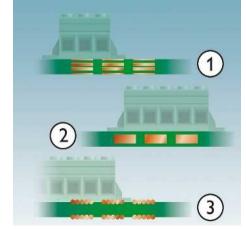
Used in conjunction with high-current PCBs, the high-performance PCB terminal blocks support a current carrying capacity of up to 125 A.

Different PCB production technologies are providing new options for device design. The necessary functions and modules can now be grouped together on a single PCB. In this manner, expensive additional device wiring can be eliminated.





Thermographic image of a test application with 125 A



PCB production technologies

- -1 = Multi-layer technology
- − ② = Thick copper technology
- 3 = Wire-writing technology



Color coding

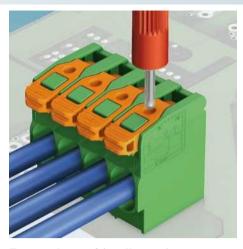
Color coding/printing, which is available as an option, enables the easy assignment of conductor/terminal points. This simplifies error-free installation of the devices to be connected. Color coding facilitates the easy and reliable implementation of work instructions such as "red conductor to red terminal point".



UL approvals for 600 V high-current applications

The high-performance PCB terminal blocks offer 600 V UL approval for every application, even those with the smallest of dimensions. Please note that a distinction must be made here between product and device approvals. The COMBICON power flyer lists the applicable approvals for products and applications in detail.

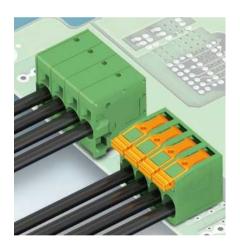
For additional information on UL certifications, see page 42.



Fast and user-friendly testing

The high-performance PCB terminal block range offers a variety of products with integrated test connections/touch connections for service work and locating errors.

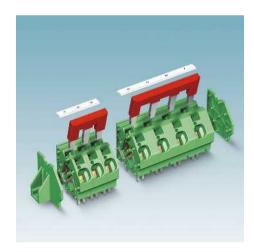
Measurements can, therefore, be taken easily without having to remove the wiring or other accessories.



Connect large cross sections quickly and easily

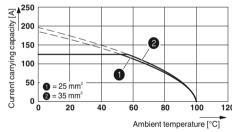
With fast connection technology, conductors of up to 16 mm² are easily connect-

- With the PL series conductor connection, you can choose between the toolfree "one-hand rocker arm" principle and push-in connection.
- The SPT series with push-in connection facilitates the fast and tool-free connection of solid or stranded conductors with ferrules of up to 16 mm².



Bridges

The fully-insulated plug-in bridges in the ZFKDS series enable potential distribution or the ground conductor to be looped through. These enable the terminal blocks to be bridged electrically as required. The bridges, which are available with various numbers of positions, are inserted in the separate bridge shafts using minimal force.



Current carrying capacity of PCB terminal blocks

Base curves are provided in the catalog so that the permitted current carrying capacity of the high-performance PCB terminal blocks can be determined. The maximum permissible current strength for a specific application can be read depending on the ambient temperature. The number of positions and the connection cross section of a conductor must be taken into account while doing so. Please also refer to the laboratory data sheets of the corresponding products. More information can be found on page 854.

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

Horizontal connection direction, pitch 6.35/7.62/9.52 mm



- PCB terminal blocks with screw connection up to 6 mm² conductor cross sec-
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Different pitches to fulfill different voltage requirements (6.35 mm / 7.62 mm / 9.52 mm)
- Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)

Notes:

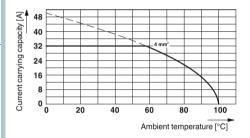
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

	1-	1-
For all types	Туре	Page
	Screwdriver	
1	SZS 0,6 x 3,5	
	Order No.	
*	1205053	
9	1203033	
	Marker cards	799
2000	SK 6,2/3,8 or	
100000	SK 7,5/3,8 or	
374032		
As the second	SK 5 WH:REEL	

Current carrying capacity curve Type: MKDS 5/2-6,35 and MKDS 5/3-6,35

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data		МК	DS 5/6,	35
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]		321) / 6	
Rated insulation voltage for pollution degree 2	[V]		630	
Pitch	[mm]		6.35	
Connection capacity				
Solid / stranded [m	m ²] / [mm ²] / AWG	0.2 - 6	/ 0.2 - 4 /	24 - 10
Stranded with ferrules without plastic sleeve	[mm ²]		0.25 - 4	
Stranded with ferrules with plastic sleeve	[mm ²]		0.25 - 4	
Multi-conductor connection capacity (two conductors with the	e same cross section)			
Solid / stranded	[mm ²]	0.2	- 1.5 / 0.2	- 1.5
Stranded with ferrules without plastic sleeve	[mm ²]		0.25 - 0.75	5
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		0.5 - 2.5	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11/2
Rated insulation voltage	[V]	500	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	30	-	10
Connection capacity AWG	AWG	30 - 10	-	30 - 10
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 10	-	28 - 10
General data				
Stripping length	[mm]		8	
Screw thread			МЗ	
Tightening torque	[Nm]		0.5 - 0.6	
Type of insulation material / insulation material gr	roup		PA/I	
Inflammability class according to UL 94			V0	
Drill hole diameter / pin dimensions	[mm]	1.3	/ 0.9 x 0.9	mm

МК	DS 5/6,	35	МК	CDS 5/7	,62	M	KDS 5/9),5
	321) / 6		321) / 6			321) / 6		
	630			630			1000	
	6.35			7.62			9.52	
0.00			7.02			0.02		
0.2 - 6 / 0.2 - 4 / 24 - 10		0.2 - 6	/0.2-4/	24 - 10	0.2 - 6	6/0.2-4/2	24 - 10	
	0.25 - 4			0.25 - 4			0.25 - 4	
	0.25 - 4			0.25 - 4			0.25 - 4	
	- 1.5 / 0.2			- 1.5 / 0.2		0.2	- 1.5 / 0.2 -	
	0.25 - 0.75	5		0.25 - 0.75	5	0.25 - 0.75		i
	0.5 - 2.5			0.5 - 2.5		0.5 - 2.5		
III/3	III/2	11/2	III / 3	III/2	11/2	III/3	III/2	11/2
500	630	1000	500	630	1000	690	1000	1000
6	6	6	6	6	6	6	6	6
В	С	D	В	С	D	В	С	D
300	-	300	300	-	300	300	300	600
30	-	10	30	-	10	30	30	5
30 - 10 B	C	30 - 10 D	30 - 10 B	C	30 - 10 D	30 - 10 B	30 - 10 C	30 - 10 D
300	-	300	-	-	-	300	300	
10	-	10		-		300	300	
28 - 10		28 - 10				28 - 10	28 - 10	-
20 - 10		20 - 10				20 - 10	20 - 10	
	8			8			8	
	 M3							
	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6	
	PA/I			PA/I		-	PA/I	
	V0		V0				V0	
1.3	/ 0.9 x 0.9	mm	1.3	/ 0.9 x 0.9	mm	1.3	/ 0.9 x 0.9	mm

No. of pos		im. a nm]
2	2 3 1	6.35
3	3 1	2.70
2	2	6.35
3	2 3 1	2.70
2	2	7.62 5.24
3	3 1	5.24
2	3 1	7.62 5.24
3	3 1	5.24
2	<u>2</u> 3 1	9.52
3	3 1	9.04
2	2	9.52 19.04
3	3 1	19.04

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²



6.35 mm pitch

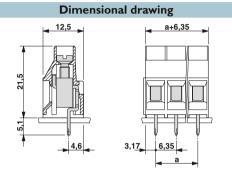


7.62 mm pitch

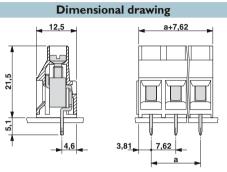


9.52 mm pitch

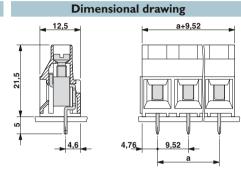




.91us 🕑



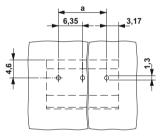
(1) • **(2)** • **(3)** • **(3)** • **(4)** • **(4)** • **(4)** • **(5)** • **(4)**



Drilling diagram

Drilling diagram

Drilling diagram



Type

MKDS 5/ 2-6,35

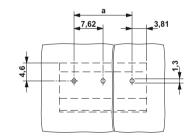
MKDS 5/ 3-6,35

MKDSV 5/ 2-6,35

MKDSV 5/ 3-6,35

6.35 mm pitch, color: green





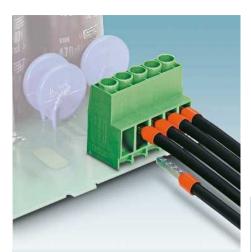
Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 7.62 mm, color: green				
MKDS 5/ 2-7,62	1868076	50		
MKDS 5/ 3-7,62	1704936	50		
7.62 mm pitch, color: green, with anti-ro	otation pins, fo	or drilling		
plans and dimensional drawings see www.phoenixcontact.net/products.				
MKDSV 5/ 2-7,62	1907131	50		
MKDSV 5/ 3-7,62	1907144	50		

	9,52	4,8
4,6		\$\frac{1}{2} \\ \frac{1}{2} \\ \frac

	Ordering data				
Pkt.	Туре	Order No.	Pcs. / Pkt.		
0					
i ng					
iiig					
0					
0	9.52 mm pitch, color: green				
	MKDS 5/ 2-9.5	1714971	50		
	MKDS 5/ 3-9,5	1714984	50		
	9.52 mm pitch, color: green, with anti-ro	otation pins, fo	or drilling		
	plans and dimensional drawings see www.phoenixcontact.net/products.				
	MKDSV 5/ 2-9,5	1710072	50		
	MKDSV 5/ 3-9,5	1710069	50		

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

600 V-UL, horizontal connection direction, pitch 6.35/9.52 mm



- High-voltage MKDS 5N HV PCB terminal blocks with increased air and creepage distances
- Unrestricted 600 V UL approval, thanks to compact Z pinning (MKDS 5N HV/...ZB-6,35 and MKDS 5 HV/...-9,52-Z)

MKDS 5 HV/...-9,52...

- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)

Notes:

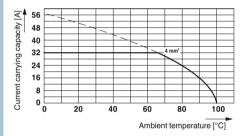
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories			
For all types	Туре	Page	
•	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
w	Marker cards SK 6,2/3,8 or SK 5,0 WH:REEL	799	

Current carrying capacity curve

Type: MKDS 5 HV/2-9,52 and MKDS 5 HV/3-9,52 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [m	m ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the	e same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	•
Tightening torque	[Nm]
Type of insulation material / insulation material gr	oup
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDS	5N HV/Z	B-6,35	MKE	S 5 HV/	-9,52	MKDS	S 5 HV/9	,52-Z
	411)/6			321) / 6			321) / 6	
	1000			1000			1000	
	6.35			9.52			9.52	
0.2 -	6/0.2-4/2	4 - 10	0.2 - 6	6/0.2-4/2	24 - 10	0.2 - 6	3/0.2-4/2	4 - 10
	0.25 - 4			0.25 - 4			0.25 - 4	
	0.25 - 4			0.25 - 4			0.25 - 4	
0.0	15/00	1.5	0.0	15/00	1.5	0.0	15/00	1.5
0.2	2 - 1.5 / 0.2 -	1.5	0.2	- 1.5 / 0.2 -			- 1.5 / 0.2 -	1.5
. ———	0.25 - 0.75 0.5 - 2.5			0.25 - 0.75 0.5 - 2.5			0.25 - 0.75 0.5 - 2.5	
	0.5 - 2.5			0.5 - 2.5			0.5 - 2.5	
III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	11/2
800	1000	1000	800	1000	1000	690	1000	1000
8	8	8	8	8	6	8	8	6
В	C	D	В	C	D	В	C	D
600	600	-	300	300	600	600	600	-
30	30	-	30	30	5	30	30	-
30 - 10	30 - 10	-	30 - 10	30 - 10	30 - 10	30 - 10	30 - 10	-
В	С	D	В	С	D	В	С	D
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
	8			8			8	
	М3			М3			M3	
	0.5 - 0.6		0.5 - 0.6			0.5 - 0.6		
	PA/I			PA/I			PA/I	
	V0		V0V0					
1.3	3 / 0.9 x 0.9 r	nm	1.3	/ 0.9 x 0.9	mm	1.3	/ 0.9 x 0.9 r	nm

No. of pos.	Dim. a [mm]
2	6.35
3	12.70
4	19.05
5	25.40
6	31.75
7	38.10
8	44.45
9	50.80
10	57.15
11	63.50
12	69.85
2	9.52
3	19.04
2	9.52

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²



Z pinning, 600 V UL approval, 6.35 mm pitch

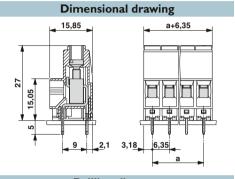


Linear pinning, 300 V UL approval, 9.52 mm pitch

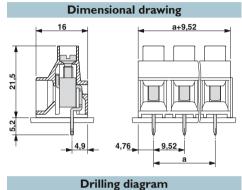


Z pinning, 600 V UL approval, 9.52 mm pitch

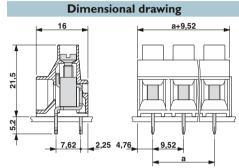




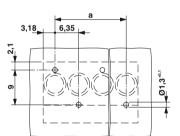


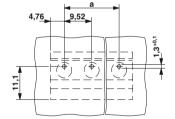


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Drilling diagram





	4.70	-	a	-	
2,25	4,76 <u></u>	9,52	-		
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7,62) ()		<u> </u>
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				L	
				-	4 1,3

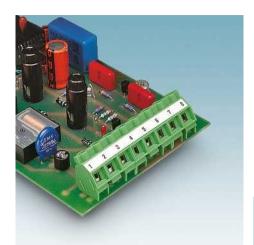
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
6.35 mm pitch, color: green			
MKDS 5N HV/ 2-ZB-6,35	1777545	50	
MKDS 5N HV/ 3-ZB-6,35	1777558	50	
MKDS 5N HV/ 4-ZB-6,35	1777561	50	
MKDS 5N HV/ 5-ZB-6,35	1777574	50	
MKDS 5N HV/ 6-ZB-6,35	1777587	50	
MKDS 5N HV/ 7-ZB-6,35	1777590	50	
MKDS 5N HV/ 8-ZB-6,35	1777600	50	
MKDS 5N HV/ 9-ZB-6,35	1777613	50	
MKDS 5N HV/10-ZB-6,35	1777626	50	
MKDS 5N HV/11-ZB-6,35	1777639	50	
MKDS 5N HV/12-ZB-6,35	1777642	50	

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
9.52 mm pitch, color: green					
MKDS 5 HV/ 2-9,52	1902547	50			
MKDS 5 HV/ 3-9,52	1904150	50			
9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see					
www.phoenixcontact.net/products.					
MKDSV 5 HV/ 2-9,52	1904147	50			

9.52 mm pitch, color: green MKDS 5 HV/ 2-9,52-Z 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products. MKDSV 5 HV/ 2-9,52-Z 1907416 50			
9.52 mm pitch, color: green MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.	Ordering date	ta	
9.52 mm pitch, color: green MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.	Type	Order No.	Pcs. / Pkt.
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.	-		
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 2-9,52-Z 1907432 50 MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.			
MKDS 5 HV/ 3-9,52-Z 1907429 50 9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.	9.52 mm pitch, color: green		
9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.	MKDS 5 HV/ 2-9,52-Z	1907432	50
plans and dimensional drawings see www.phoenixcontact.net/products.	MKDS 5 HV/ 3-9,52-Z	1907429	50
MKDSV 5 HV/ 2-9,52-Z 1907416 50	plans and dimensional drawings see	otation pins, fo	or drilling
	MKDSV 5 HV/ 2-9,52-Z	1907416	50

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

Angled connection direction, pitch 6.35/9.52 mm

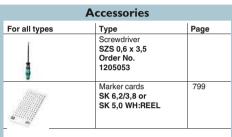


- Connection direction of the conductor angled to the PCB (35°)
- PCB terminal blocks with screw connection up to 6 mm² conductor cross section
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Different pitches to fulfill different voltage requirements (6.35 mm/9.52 mm)

Notes:

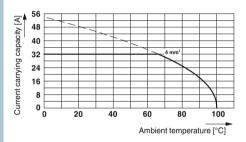
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.



Current carrying capacity curve

Type: SMKDS 5/2-6,35 and SMKDS 5/3-6,35 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm	n ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the s	same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material gro	up
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SMKDS 5/6,35			SM	IKDS 5/9	9,5
	321)/6			321) / 6	
	630			1000	
	0.05			0.50	
	6.35			9.52	
		04 40			
0.2 - 6	0.2 - 4/:	24 - 10	0.2 - 6	0.2 - 4 / 2	4 - 10
	0.25 - 4			0.25 - 4	
	0.25 - 4			0.25 - 4	
	- 1.5 / 0.2	1.5	0.2	- 1.5 / 0.2 -	1.5
	0.25 - 0.75			0.25 - 0.75	1.5
-	0.5 - 2.5	,		0.5 - 2.5	
	0.5 - 2.5			0.5 - 2.5	
III/3	III/2	II/2	III/3	III/2	II/2
500	630	1000	690	1000	1000
6	6	6	6	6	6
В	С	D	В	С	D
250	-	300	250	300	-
30	-	10	30	30	-
30 - 10	-	30 - 10	30 - 10	30 - 10	-
В	С	D	В	С	D
300	-	300	300	300	-
10	-	10	30	30	-
20 - 10	-	28 - 10	28 - 10	28 - 10	-
	8			8	
	M3			M3	
-	0.5 - 0.6			0.5 - 0.6	
	PA/I		PA / I		
	V2		V2		
1.3	/ 0.9 x 0.9	mm	1.3	/ 0.9 x 0.9 n	nm

No. of pos. Dim. a [mm] 2 6.35 3 12.70 2 9.52		
[mm] 2 6.35 3 12.70 2 9.52		
3 12.70 2 9.52	No. of pos.	
2 9.52	2	6.35
	3	12.70
2 10.04	2	9.52
3 19.04	3	19.04

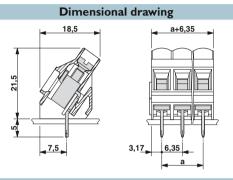


6.35 mm pitch, 35° angled connection direction

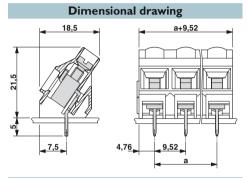


9.52 mm pitch, 35° angled connection direction



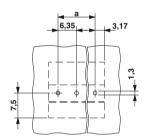




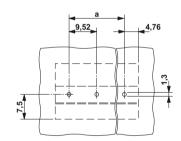


Drilling diagram









	Ordering data				
Туре		Order No.	Pcs. / Pkt.		
9.52 mm pitch,	color: green				
SMKDS 5/ 2-9,	5	1720017	50		
SMKDS 5/ 3-9,5	5	1720020	50		

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

Double-level design, pitch 6.35/9.52 mm



- Double-level PCB terminal blocks with a screw connection up to 6 mm² conductor cross section
- Different pitches to fulfill different voltage requirements (6.35 mm/9.52 mm)
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Lateral offset of terminal points for better accessibility of cable funnels

Notes:

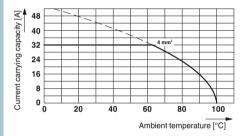
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories			
For all types	Туре	Page	
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053		
w	Marker cards SK 6,2/3,8 or SK 5,0 WH:REEL	799	

Current carrying capacity curve

Type: MKKDS 5/2-6,35 and MKKDS 5/3-6,35 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mn	n ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the	same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material gro	oup
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

МКК	CDS 5/6	6,35	МК	KDS 5/	9,5	
321) / 6				321) / 6		
630				1000		
				9.52		
	6.35			9.52		
0.0	6/0.2-4/2	24 10	0.2	6/0.2-4/2	4 10	
0.2 - 0	0.25 - 2.5	24 - 10	0.2 - 0	0.25 - 2.5	4-10	
	0.25 - 4			0.25 - 2.5		
	0.25 - 4			0.23 - 4		
0.2	- 1.5 / 0.2 -	1.5	0.2	- 1.5 / 0.2 -	1.5	
	0.25 - 0.75			0.25 - 0.75		
	0.5 - 2.5		-	0.5 - 2.5		
III/3	III/2	11/2	III/3	III/2	11/2	
500	630	1000	690	1000	1000	
6	6	6	6	6	6	
В	С	D	В	С	D	
300	-	300	300	300	600	
30	-	10	30	30	5	
30 - 10	-	30 - 10	30 - 10	30 - 10	30 - 10	
В	С	D	В	С	D	
300	-	300	300	300	-	
10	-	10	30	30	-	
28 - 10	-	28 - 10	28 - 10	28 - 10	-	
	8			8		
	M3			M3		
	0.5 - 0.6		0.5 - 0.6			
	PA/I		PA/I			
- 10	V0		V2 1.3 / 0.9 x 0.9 mm			
1.3	/ 0.9 x 0.9	mm	1.3	/ U.9 X U.9 I	nm	

No. of pos.	Dim. a [mm]
2	6.35
3	12.70
2	9.52
3	19.04

PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²

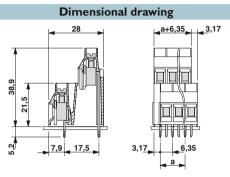


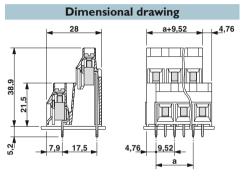
6.35 mm pitch, double-level PCB terminal block

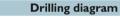


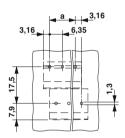
9.52 mm pitch, double-level PCB terminal block



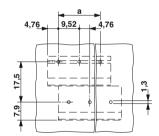








Ordering data				
Туре	Order No.	Pcs. / Pkt.		
6.35 mm pitch, color: green				
MKKDS 5/ 2-6,35	1719031	50		
MKKDS 5/ 3-6,35	1719044	50		



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
9.52 mm pitch, color: green				
MKKDS 5/ 2-9,5	1719015	50		
MKKDS 5/ 3-9,5	1719028	50		

PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²

Horizontal connection direction, pitch 10.16/12.7 mm



- High-capacity PCB terminal blocks with a screw connection up to 16 mm² flexible and a current carrying capacity of
- Individual adjustment of voltage requirements using RZ pitch spacers (MKDS 10 HV)
- MKDSP 10 HV...-12,7 with unrestricted 600-V-UL approval
- Integrated test connection
- Terminal block bases that can be lined up next to each other in order to set up any number of positions

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

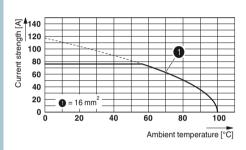
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories For all types Туре Page Test plug 831 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 801 Marker strips SK 5,0 WH:REEL Order No. 0805221 Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 1212034 Crimping pliers for 10 to 16 mm² CRIMPFOX 16 S Order No. 1207983 Only for MKDSP 10 HV...-12,7 Pitch spacer. **RZ-MKDSP 10 HV-2,54** Order No.

Current carrying capacity curve

Type: MKDSP 10N/...-10,16

Tested in accordance with DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VD	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]$ / $[mm^2]$ / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	n the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDSP 10	N/10,16	MKD	MKDSP 10HV/10,16		MKDSP 10HV/12,		12,7
761)	761) / 16		76¹) / 16			76¹) / 16	
10	000		1000			1000	
	10		10.10			40.7	
10	.16		10.16			12.7	
0.5.40.40.4	- 10/00 0		10/05 10		0 = 4	0/0= 40	
	0.5 - 16 / 0.5 - 16 / 20 - 6 0.5 - 16		16 / 0.5 - 16	/ 20 - 6	0.5 - 10	6/0.5 - 16/	20 - 6
			0.5 - 16			0.5 - 16	
0.5	- 16		0.5 - 16			0.5 - 16	
0.5.4	/ 0.5 - 4		0.5 - 4 / 0.5 -	1	0	5 - 4 / 0.5 -	1
	- 2.5	'	0.5 - 2.5	4		0.5 - 2.5	4
	- <u>- 2.5</u> 5 - 6		0.5 - 6			0.5 - 6	
0.0) - U		0.5 - 0			0.5 - 0	
	/2 11/2	III/3	III/2	11/2	III/3	III/2	II/2
	000 1000	690	1000	1000	1000	1000	1000
	8 6	- 8	8	6	8	8	6
В	C D	В	С	D	В	С	D
300 3	00 600	300	300	600	600	600	-
60 6	50 5	60	60	5	60	60	-
20 - 6 20	-6 20-6	20 - 6	20 - 6	20 - 6	20 - 6	20 - 6	-
В	C D	В	С	D	В	С	D
			-	-	-	-	-
			-	-		-	-
-		-	-	-	-	-	-
	10	_	10			10	
	M4		M4		M4		
	1.2 - 1.5		1.2 - 1.5		1.2 - 1.5		
	PA/I		PA/I			PA/I	
	/0		V0			V0	
1.5/1>	0.9 mm	1	.5 / 1 x 0.9 n	nm	1.5	5 / 1 x 0.9 m	ım

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
2	10.16
3	20.32
2	12.70
3	25.40

PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²



10.16 mm pitch, 300 V UL approval

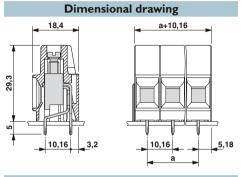


10.16 mm pitch, 300 V UL approval

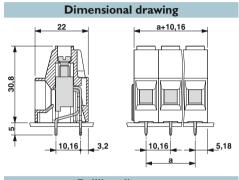


12.7 mm pitch, 600 V UL approval

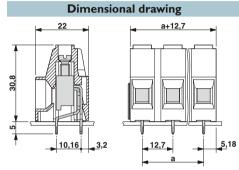




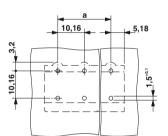
CCA CB



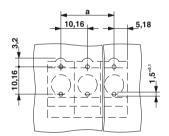
CCA CB



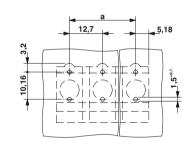
Drilling diagram



Drilling diagram



Drilling diagran



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 10.16 mm, color: green					
MKDSP 10N/ 2-10,16	1773976	50			
MKDSP 10N/ 3-10,16	1774137	50			

Ordering data				
Туре	Order No. Pcs./			
Pitch 10.16 mm, color: green				
MKDSP 10HV/ 2-10,16	1929517	50		
MKDSP 10HV/ 3-10,16	1929520	50		

Ordering data				
Type	Order No.	Pcs. / Pkt.		
Pitch 12.7 mm, color: green				
MKDSP 10HV/ 2-12,7	1929533	50		
MKDSP 10HV/ 3-12,7	1929546	50		

PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²

600 V-UL, horizontal connection direction, pitch 10.16 mm



- Compact high-capacity PCB terminal blocks with a screw connection up to 16 mm², stranded, and a current carrying capacity of 76 A
- Unrestricted 600-V-UL approval, thanks to zig-zag pinning
- Pitch 10.16 mm
- MKDS 10 HV/...-B-10,16 with a solder pin at the back; MKDS 10 HV/...-F-10,16 with a solder pin in the front
- Terminal block bases that can be lined up next to each other in order to set up any number of positions

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

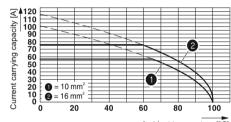
When aligning single PCB terminal blocks with identical pinning, other rated insulation voltages can occur.

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories For all types Туре Page Screwdriver SZS 0,6 x 3,5 1205053 Marker strips SK 5,0 WH:REEL Order No. 0805221 Crimping pliers for 0.25 to 6 mm CRIMPFOX 6 Order No. 1212034 Crimping pliers for 10 to 16 mm² CRIMPFOX 16 S Order No.

Current carrying capacity curve

Type: MKDS 10 HV/...-ZB-10,16 Tested in accordance with DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions = 5



Ambient temperature [°C]

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm ²]	/ [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the sar	ne cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	·
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKDS 10	HV/ZE	3-10,16	MKDS	10 HV/ 1-B	-10,16	MKDS	10 HV/ 1-F	-10,16
	76¹) / 16			76¹) / 16			76¹) / 16	
	1000			400			400	
=								
	10.16			10.16			10.16	
0.5.40	/ O = . 40		0 = 4	0 / 0 = 40 /		0 = 4	0.40 = 40.4	
0.5 - 16	/ 0.5 - 16 /	20 - 6	0.5 - 1	6/0.5 - 16/	20 - 6	0.5 - 1	6/0.5 - 16/	20 - 6
	0.5 - 16			0.5 - 16			0.5 - 16	
	0.5 - 16			0.5 - 16			0.5 - 16	
0.5	5 - 6 / 0.5 -	6	0	.5 - 6 / 0.5 -	6	0	5-6/0.5-	6
0.:	0.5 - 4	U		0.5 - 4	U	- 0	0.5 - 4	U
	0.5 - 6			0.5 - 6			0.5 - 6	
	0.5 - 0			0.5 - 0			0.5 - 0	
III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	II / 2
800	1000	1000	400	400	800	400	400	800
8	8	8	4	4	4	4	4	4
В	С	D	В	С	D	В	С	D
600	600	-	600	600		600	600	-
60	60	-	60	60	-	60	60	-
20 - 6	20 - 6	-	20 - 6	20 - 6	-	20 - 6	20 - 6	-
В	С	D	В	С	D	В	С	D
-	-	-	-	-	-	-	-	-
	-	-		-	-		-	-
-	-	-	-	-	-	-	-	-
_	10			10			10	
_	M4			M4			M4	
=	1.2 - 1.5			1.2 - 1.5			1.2 - 1.5	
	PA/I		PA / I					
	V0			V0			V0	
1.5	/ 1 x 0.9 m	ım	1.	5 / 1 x 0.9 m	ım	1.5	5 / 1 x 0.9 m	ım

No. of pos.	Dim. a [mm]
1	
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28
10	91.44
11	101.60
12	111.76

PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²



Z pinning, 600 V UL approval

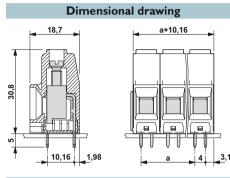


Single PCB terminal block with solder pin to the rear, 600 V UL approval

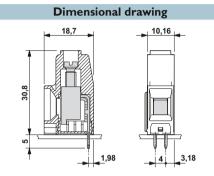


Single PCB terminal block with solder pin to the front, 600 V UL approval

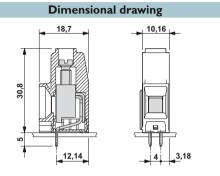
CCA CB



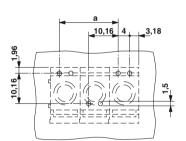




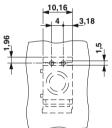
CCA CB



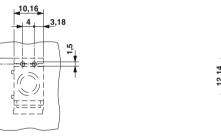
Drilling diagram



Drilling diagram



Drillir	a dia	σram
Drillill	ig uia	graiii



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 10.16 mm, color: green					
MKDS 10 HV/ 2-ZB-10,16	1709681	50			
MKDS 10 HV/ 3-ZB-10,16	1709694	50			
MKDS 10 HV/ 4-ZB-10,16	1709704	50			
MKDS 10 HV/ 5-ZB-10,16	1709717	50			
MKDS 10 HV/ 6-ZB-10,16	1709720	50			
MKDS 10 HV/ 7-ZB-10,16	1709733	50			
MKDS 10 HV/ 8-ZB-10,16	1709746	50			
MKDS 10 HV/ 9-ZB-10,16	1709759	50			
MKDS 10 HV/10-ZB-10,16	1709762	50			
MKDS 10 HV/11-ZB-10,16	1709775	50			
MKDS 10 HV/12-ZB-10,16	1709788	50			

Ordering data						
Туре	Order No.	Pcs. / Pkt.				
Pitch 10.16 mm, color: green						
MKDS 10 HV/ 1-B-10,16	1993776	50				

	4	3,18
12,14		5,1

Ordering data							
Туре	Order No.	Pcs. / Pkt.					
Pitch 10.16 mm, color: green							
MKDS 10 HV/ 1-F-10,16	1993763	50					

PCB terminal blocks with screw connection, MKDSP 25 series up to 125 A/35 mm²

Horizontal connection direction, pitch 15 mm



- High-capacity PCB terminal blocks with a screw connection up to 35 mm² conductor cross section and a current carrying capacity of 125 A
- Unrestricted 600-V-UL approval
- Integrated test connection
- Version with mounting flange (-F) for safe mounting on the PCB
- Single-pos. version with a left-sided mounting flange (-FL)
- Integrated protective guide

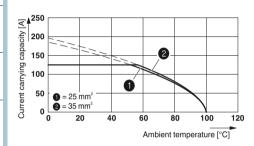
Notes:

- 1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.
- 2) 2.5 Nm = 25 mm²
- 4.5 Nm = 35 mm²



Current carrying capacity curve

Type: MKDSP 25/...-15,00 Tested in accordance with DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm ²] /	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

MKD	SP 25/1	5,00	MKDS	SP 25/1	5,00-F	MKDS	P 25/ 1-15	,00-FL
	1251) / 35			1251) / 35			1251) / 35	
	1000			1000			1000	
	15			15			15	
0.5.0			0.5.0				- / 0 - 0-	
0.5 - 3	0.5 - 35 / 0.5 - 25 / 20 - 2			5 / 0.5 - 25	/ 20 - 2	0.5 - 3	5 / 0.5 - 25	/20 - 2
	1 - 25			1 - 25			1 - 25	
	1.5 - 25			1.5 - 25			1.5 - 25	
0	.5 - 6 / 0.5 -	6	0	.5 - 6 / 0.5 -	6	0	.5 - 6 / 0.5 -	6
	0.5 - 4	<u> </u>		0.5 - 4	0		0.5 - 4	0
	0.5 - 6		-	0.5 - 6		-	0.5 - 6	
	0.5 - 0			0.5 - 0			0.5 - 0	
III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	II / 2
1000	1000	1000	1000	1000	1000	1000	1000	1000
8	8	8						
В	С	D	В	С	D	В	С	D
600	600	-	600	600	-	600	600	-
115	115	-	115	115	-	115	115	-
20 - 2	20 - 2	-	20 - 2	20 - 2	-	20 - 2	20 - 2	-
В	С	D	В	С	D	В	С	D
	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
	18			18			18	
	M5			M5		M5		
	2.5 - 4.5 ²)			2.5 - 4.52)		2.5 - 4.52)		
	PA/I			PA/I			PA/I	
	V0			V0			V0	
1.6	/ 1.2 x 1.2 r	mm	1.6	/ 1.2 x 1.2 ı	mm	1.6	/ 1.2 x 1.2 ı	mm

No. of pos.	Dim. a
1	
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00
7	90.00
8	105.00
9	120.00

PCB terminal blocks with screw connection, MKDSP 25 series up to 125 A/35 mm²



Without mounting flange, 600 V UL approval



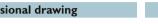
With mounting flange, 600 V UL approval

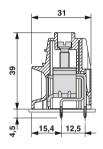


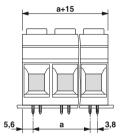
Single PCB terminal block with mounting flange, left, 600 V UL approval

CCA CB

Dimensional drawing

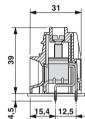


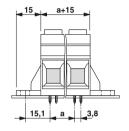




CCA CB

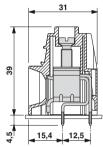
Dimensional drawing

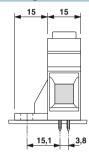




CCA CB

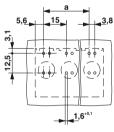




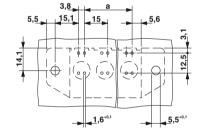


Drilling diagram

Drilling diagram



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
15 mm pitch, color: green					
, , , ,					
MKDSP 25/ 2-15,00	1932588	25			
MKDSP 25/ 3-15,00	1932591	25			
MKDSP 25/ 4-15,00	1932601	25			
MKDSP 25/ 5-15,00	1932614	25			
MKDSP 25/ 6-15,00	1932627	25			
MKDSP 25/ 7-15,00	1932630	25			
MKDSP 25/ 8-15,00	1932643	25			
MKDSP 25/ 9-15,00	1932656	25			



Ordering data					
Туре	Order No.	Pcs. / Pkt.			
15 mm pitch, color: green					
MKDSP 25/ 2-15,00-F	1932494	25			
MKDSP 25/ 3-15,00-F	1932504	25			
MKDSP 25/ 4-15,00-F	1932517	25			
MKDSP 25/ 5-15,00-F	1932520	25			
MKDSP 25/ 6-15,00-F	1932533	25			
MKDSP 25/ 7-15,00-F	1932546	25			
MKDSP 25/ 8-15,00-F	1932559	25			
MKDSP 25/ 9-15,00-F	1932562	25			

	5, <u>5</u>	_	15,1			
	-		3,8	1	<u>ا</u>	5,6
14,1						12,5 3,1
	5,5	,1	-		1,6	+0,1

Ordering data							
Туре	Order No.	Pcs. / Pkt.					
15 mm pitch, color: green							
MKDSP 25/ 1-15,00-FL	1932575	25					

Special designs with screw connection, KDS 10-, Front 4 series up to 76 A/16 mm²

Feed-through PCB terminal blocks, pitch 10 mm



- High-capacity PCB terminal blocks with a current carrying capacity up to 76 A at the solder connection
- Can also be used as a feed-through terminal block up to 76 A
- Different solder pin geometries for greater voltage distances (KDS 10.../SO)
- Individual adjustment of voltage requirements using pitch spacers RZ
- Potential distribution possible by means of bridges

Technical data

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

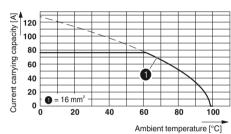
FBI 10-10 maximum via 3 KDS 10 terminal blocks. Remove the break-out wall for bridging.

- 1) Higher voltages are achieved when the RZ-KDS 10 pitch spacer
- 2) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

	Accessories	
For all types	Туре	Page
P	Pitch spacer, width: 2.5 mm RZ-KDS 10 Order No. 1701065	
Later Market	Fixed bridge, 10-pos., divisible FBI 10-10 Order No. 0203276	
9/	Test plug PS	831
	Test socket for PS test plugs PSB 4/7/6 Order No. 0303299	
110. 1311:1	Zack marker strip ZB 10	805
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	

Current carrying capacity curve

Type: KDS 10 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



rechnical data	
	_
Technical data in accordance to IEC / DIN VD	=
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	·
Drill hole diameter / pin dimensions	[mm]

	KDS10			KDS10/S0	1	KDS10-PE		
	76²) / 16			76 ²) / 16			762) / 16	
	320			630			320	
	10			10			10	
0.5 - 1	6 / 0.5 - 10	/ 20 - 6	0.5 - 1	6 / 0.5 - 10	/ 20 - 6	0.5 - 1	6/0.5 - 10	/ 20 - 6
	0.5 - 10			0.5 - 10			0.5 - 10	
	0.5 - 10			0.5 - 10			0.5 - 10	
0	E 4/0E	4	0	.5 - 4 / 0.5 -	4	0	.5 - 4 / 0.5 -	4
	.5 - 4 / 0.5 - 0.5 - 2.5	4		0.5 - 2.5	4		0.5 - 2.5	4
	0.5 - 6			0.5 - 6			0.5 - 2.5	
	0.5-0			0.5-0			0.5 - 0	
III/3	III/2	II / 2	III/3	III/2	II/2	III/3	III/2	11/2
250¹)	320	630	630¹)	630	1000	250	320	630
4	4	4	6	6	6	4	4	4
В	С	D	В	C	D	В	С	D
250	300	600	250	300	600		-	-
65	65	5	65	65	5	-	-	-
24 - 6	24 - 6	24 - 6	24 - 6	24 - 6	24 - 6	-	-	-
В	С	D	В	С	D	В	С	D
300	300	-	300	300	-	-	-	-
65	65	-	65	65	-	-	-	-
18 - 6	18 - 6	-	18 - 6	18 - 6	-	-	-	-
	12			12			12	
	M4			M4			M4	
	1.2 - 1.5			1.2 - 1.5			1.2 - 1.5	
	PA/I			PA/I		PA/I		
	V0			V0			V0	
1.	4 / 1 x 0.9 m	nm	1.	4 / 1 x 0.9 m	nm	1.4	4 / 1 x 0.9 m	nm

No. of noo	
No. of pos.	
'	
1	
1	

Special designs with screw connection, KDS 10-, Front 4 series up to 76 A/16 mm²



Solder pins in a row



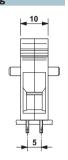
Offset solder pins



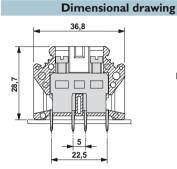
PE connection, solder pins in a row



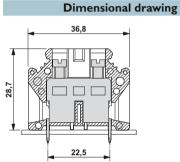
Dimensional drawing 28,7



(E) © (L)



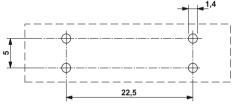


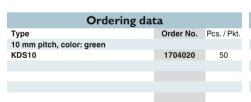


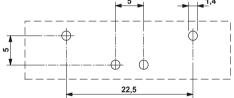
Drilling diagram

Drilling diagram

Drilling diagram







Ordering data					
Туре	Order No.	Pcs. / Pkt.			
10 mm pitch, color: green					
KDS10/SO	1704059	50			

		→ → 1,4
		
[] h		
<u> </u>		
4	22,5	-

Ordering data						
Туре		Order No.	Pcs. / Pkt.			
10 mm pitch, co	lor: green-yellow					
KDS10-PE		1704033	50			

Special designs with screw connection, KDS 10-, Front 4 series up to 76 A/16 mm²

Front PCB terminal blocks, pitch 6.35/7.62 mm



- Front screw connection terminal blocks up to 6 mm² conductor cross section
- Connection direction of the conductor: Horizontal (0° -H) or vertical (90° -V)
- A cover is necessary at the end of a terminal block row (D-FRONT 4-6,35)

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

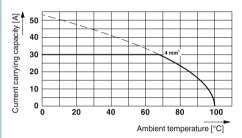
Additional versions and accessories for the KDS 10 series can be found on page 456.

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories For all types Туре Page Only for KDS 10... Screwdriver SZS 1,0 x 4,0 Order No. 1205066 Pitch spacer, width: 2.5 mm RZ-KDS 10 Order No. 1701065 Zack marker strip ZB 10 805 Only for FRONT 4...-6,5 Cover, width 1.5 mm **D-FRONT 4-6,35** Order No. 1703076 Screwdriver SZS 0,6 x 3,5 1205053 Marker cards SK 6,2/3,8

Current carrying capacity curve

Type: FRONT 4-H-6,35 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm ²] /	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

K	DS10-PE/S	0	FR	ONT 4-H-6	6,35	FRONT 4-V-6,35		
	761) / 16			321) / 6			321) / 6	
	630			320			320	
				0.05			0.05	
	10			6.35			6.35	
0.5	40/05 40	100 0	0.5.0	/O.F. 4./	00 40	0.5.0	105 41	00 40
0.5 -	16 / 0.5 - 10	/ 20 - 6	0.5 - 6	/ 0.5 - 4 / 0.5 - 4	20 - 10	0.5 - 6	/ 0.5 - 4 / 1 0.5 - 4	20 - 10
	0.5 - 10							
	0.5 - 10			0.5 - 4			0.5 - 4	
	0.5 - 4 / 0.5 -	4	0.5	- 1.5 / 0.5	1.5	0.5	- 1.5 / 0.5	. 1.5
	0.5 - 2.5	4	0.5	0.25 - 1	- 1.5	0.5	0.25 - 1	- 1.5
-	0.5 - 6			0.25 - 1			0.25 - 1	
	0.5 - 0			0.5 - 1			0.5 - 1	
III/3	III/2	11/2	III/3	III/2	11/2	III/3	III/2	11/2
630	630	1000	320	320	630	320	320	630
4	4	4	4	4	4	4	4	4
В	С	D	В	С	D	В	С	D
-			300	-	300	300	-	300
-	-	-	30	-	30	30	-	30
-	-	-	24 - 10	-	24 - 10	24 - 10	-	24 - 10
В	С	D	В	С	D	В	С	D
-	-	-	300	-	300	300	-	300
-	-	-	30	-	10	30	-	10
-	-	-	22 - 10	-	22 - 10	22 - 10	-	22 - 10
	12			14			14	
	M4			М3			М3	
	1.2 - 1.5			0.5 - 0.6			0.5 - 0.6	
	PA/I			PA / I			PA/I	
	V0			V2			V2	
1	.4 / 1 x 0.9 m	nm	1.3	3 / 1 x 0.8 r	mm	1.3	1 / 1 x 0.8 r	nm

No. of pos.	
1	
1	

Special designs with screw connection, KDS 10-, Front 4 series up to 76 A/16 mm²



Feed-through terminal block as PE connection, offset solder pins



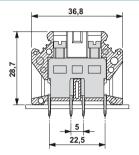
Individual PCB terminal block, horizontal connection direction

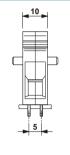


Individual PCB terminal block, vertical connection direction



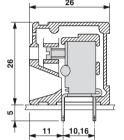
Dimensional drawing

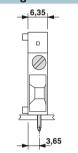




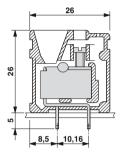
(1) (2) (2) (2) (2) (3)

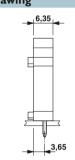






Dimensional drawing

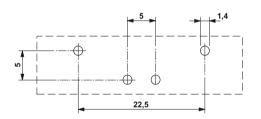




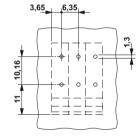
Drilling diagram

Drilling di

liagram	Drilling diagram
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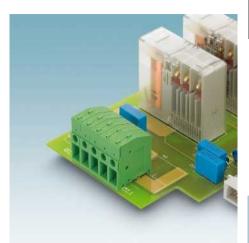
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
6.35 mm pitch, color: green			
FRONT 4-H-6,35	1703050	50	

	3,65	6,35	
8,5 10,16			1,3

Ordering data		
Туре	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: green		
FRONT 4-V-6.35	1703063	50

Special designs with screw connection, KDS 10-, Front 4 series up to 76 A/16 mm²

Front PCB terminal blocks, pitch 6.35/7.62 mm



- Front screw connection terminal blocks up to 6 mm² conductor cross section
- Connection direction of the conductor: horizontal (0° -H) or vertical (90° -V)
- In the horizontal version, pitch spacers (RZ) are available for adjusting insulation distances

Notes:

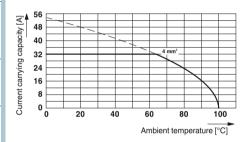
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories		
For all types	Туре	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
1	Pitch spacer, width: 5.08 mm RZ-5,08-FRONT 4-H-7,62 Order No. 1904011	
	Marker cards SK 7,62/3,8	799

Current carrying capacity curve

Type: FRONT 4-H-7,62 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VE	N E
Rated current / conductor cross section	
Rated insulation voltage for pollution degree 2	[A] / [mm²]
nated insulation voltage for political degree a	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

ED/	ONT 4 11 7		FD	ONT 4 1/ -	
FR	ONT 4-H-7	,02	FR	ONT 4-V-7	,02
	321)/6			321) / 6	
	630		-	630	
	030			030	
	7.62			7.62	
0.5 - 6	6/0.5-4/	20 - 10	0.5 - 6	/0.5-4/	20 - 10
	0.5 - 4			0.5 - 4	
	0.5 - 4			0.5 - 4	
0.5	- 1.5 / 0.5	- 1.5	0.5	- 1.5 / 0.5	- 1.5
	0.25 - 1			0.25 - 1	
	0.5 - 1			0.5 - 1	
III/3	III/2	11/2	III/3	III/2	11/2
500	630	1000	500	630	1000
6	6	6	6	6	6
В	С	D	В	С	D
300	-	300	300	-	300
30	-	30	30 24 - 10	-	30
24 - 10 B	C	24 - 10 D	24 - 10 B	C	24 - 10 D
300	-	300	300	-	300
300		10	300		10
22 - 10		22 - 10	22 - 10		22 - 10
22-10	-	22,10	22 - 10		22 - 10
	14			14	
	M3		-	M3	
	0.5 - 0.6		-	0.5 - 0.6	
	PA/I			PA/I	
	V0			V0	
1.3	3 / 1 x 0.8 r	nm	1.3	3 / 1 x 0.8 r	nm

Special designs with screw connection, KDS 10-, Front 4 series up to 76 A/16 mm²



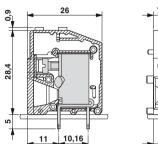
Individual PCB terminal block, horizontal connection direction

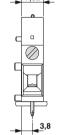


Individual PCB terminal block, vertical connection direction

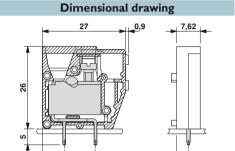


Dimensional drawing



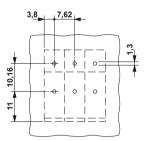


(1) (2) (2) (2) (2) (3)

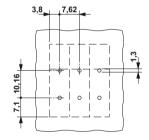


Drilling diagram





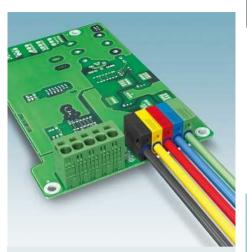




Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
FRONT 4-V-7,62	1703021	50

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²

Horizontal connection direction, pitch 7.5 mm



- Push-in spring-cage PCB terminal blocks SPT 5 for conductor cross sections up to 6 mm², stranded
- Fast connection technology, thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval, thanks to compact zig-zag pinning
- Connection direction of the conductor: horizontal (0° -H) to the PCB
- Single-position terminal blocks with double pinning

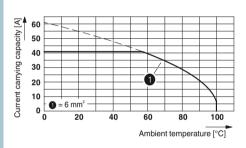
Notes: When aligning versions with double pinning, other rated insulation voltages can occur.

 Please observe the current carrying capacity curves and laborato-
ry data sheets. Further current carrying capacity curves on request.

Accessories			
For all types	Туре	Page	
•	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517		
• 2	Marker cards SK 7,5/3,8	799	
	Ferrules with and without plastic sleeve	834	
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
3	Pitch spacer RZ-SPT 5-4 H Order No. 1701534		

Current carrying capacity curve Type: SPT 5/...-H-7,5-ZB

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	į
	mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with the same	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SPT 5/ 1-H-7,5		SPT	Г 5/Н-7,5	-ZB		
	411) / 10			411) / 10		
	1000			1000		
	7.5			7.5		
0.2 -	10 / 0.2 - 6 /	24 - 8	0.2 -	10/0.2-6/	24 - 8	
	0.25 - 6			0.25 - 6		
	0.25 - 4			0.25 - 4		
	-/-			-/-		
				-		
	0.25 - 1.5			0.25 - 1.5		
III/3	III/2	11/2	III/3	III/2	11/2	
630	1000	1000	800	1000	1000	
6	6	6	8	8	6	
В	С	D	В	С	D	
300	150	600	600	600	-	
35	35	5	35	35	-	
24 - 8	24 - 8	24 - 8	24 - 8	24 - 8	-	
В	С	D	В	С	D	
	-			-	-	
	-	-		-	-	
-	-	-	-	-	-	
15				15		
PA/I			PA/I			
V0			VO			
2.1 / 1.7 x 0.8		2.1 / 1.7 x 0.8				

No. of pos.	Dim. a [mm]
1	0.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

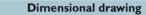


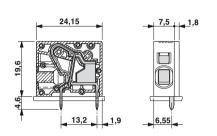
Individual PCB terminal block, double pinning



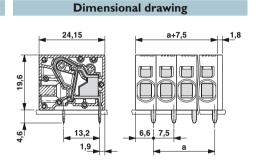
Zigzag pinning 600 V UL approval

CCA CB

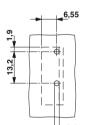




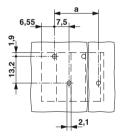
CCA CB



Drilling diagram





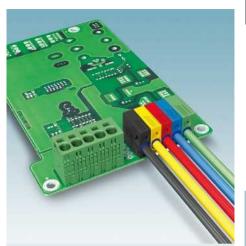


Ordering data				
Type	Order No.	Pcs. / Pkt		
7.5 mm pitch, color: green				
SPT 5/ 1-H-7,5	1719189	50		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
7.5 mm pitch, color: green				
SPT 5/ 2-H-7,5-ZB	1719192	50		
SPT 5/ 3-H-7,5-ZB	1719202	50		
SPT 5/ 4-H-7,5-ZB	1719215	50		
SPT 5/ 5-H-7,5-ZB	1719228	50		
SPT 5/ 6-H-7,5-ZB	1719231	50		
SPT 5/ 7-H-7,5-ZB	1719244	50		
SPT 5/ 8-H-7,5-ZB	1719257	50		
SPT 5/ 9-H-7,5-ZB	1719260	50		
SPT 5/10-H-7,5-ZB	1719273	50		
SPT 5/11-H-7,5-ZB	1719286	50		
SPT 5/12-H-7,5-ZB	1719299	50		

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²

Vertical connection direction, pitch 7.5 mm



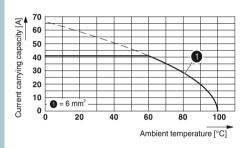
- Push-in spring-cage PCB terminal blocks SPT 5 for conductor cross sections up to 6 mm², stranded
- Fast connection technology, thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval, thanks to compact zig-zag pinning
- Connection direction of the conductor: Vertical (90° -V) to the PCB
- Single-position terminal blocks with double pinning

Notes: When aligning versions with double pinning, other rated insulation voltages can occur. 1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories				
For all types	Туре	Page		
•	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517			
• _/	Marker cards SK 7,5/3,8	799		
	Ferrules with and without plastic sleeve	834		
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034			
1	Pitch spacer RZ-SPT 5-4-V Order No. 1701535			

Current carrying capacity curve Type: SPT 5/...-V-7,5-ZB

Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Technical data	
Technical data in accordance to IEC / DIN VDB	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SPT 5/ 1-V-7,5		SPT	Γ 5/V-7,5	-ZB		
	411) / 10			411) / 10		
	1000			1000		
	7.5			7.5		
0.2 - 1	10/0.2-6/	24 - 8	0.2 -	10/0.2-6/	24 - 8	
	0.25 - 6			0.25 - 6		
	0.25 - 4			0.25 - 4		
	-/-			-/-		
	-					
	0.25 - 1.5			0.25 - 1.5		
III / O	III. / O	11.70	III. / O	III / O	11.70	
III / 3	111/2	11/2	III / 3	111/2	11/2	
630	1000	1000	800	1000	1000	
		•	-		-	
B 300	C 150	D 600	B 600	C 600	D	
35	35	5	35	35		
24 - 8	24 - 8	24 - 8	24 - 8	24 - 8		
B	C C	D D	24-0 B	C C	D	
	-	-	-	-	-	
	15			15		
PA/I			PA/I			
V0			VO			
2.1 / 1.7 x 0.8		2.1 / 1.7 x 0.8				
2.1/1./ X U.U			, x o.			

No. of pos.	Dim. a [mm]
1	0.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50





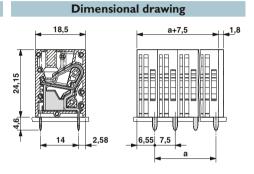


Z pinning, 600 V UL approval

CCA CB

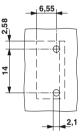
Dimensional drawing

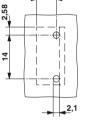


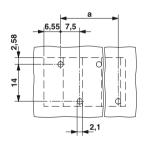


Drilling diagram









Ordering data				
Туре	Order No.	Pcs. / Pkt.		
7.5 mm pitch, color: green				
SPT 5/ 1-V-7,5	1719309	50		
-				
-				
-				
-				
-				
-				
-				

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
7.5 mm pitch, color: green				
SPT 5/ 2-V-7,5-ZB	1719312	50		
SPT 5/ 3-V-7,5-ZB	1719325	50		
SPT 5/ 4-V-7,5-ZB SPT 5/ 5-V-7.5-ZB	1719338 1719341	50 50		
SPT 5/ 6-V-7,5-ZB	1719354	50		
SPT 5/ 7-V-7,5-ZB	1719367	50		
SPT 5/ 8-V-7,5-ZB	1719370	50		
SPT 5/ 9-V-7,5-ZB	1719383	50		
SPT 5/10-V-7,5-ZB	1719396	50		
SPT 5/11-V-7,5-ZB	1719406	50		
SPT 5/12-V-7,5-ZB	1719419	50		

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²

Horizontal connection direction, pitch 10 mm



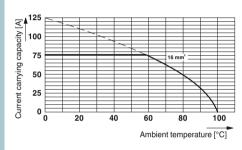
- SPT 16 PCB terminal block with push-in spring connection for conductor cross sections up to 16 mm² and a current carrying capacity of 76 A
- Fast connection technology, thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval, thanks to compact zigzag pinning
- Connection direction of the conductor: horizontal (0° -H) to the PCB
- Terminal blocks that can be lined up next to each other for color coding from position to position
- Single-position terminal blocks with double pinning

Notes:
When aligning versions with double pinning, other rated insulation voltages can occur. $ \\$
Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories				
For all types	Туре	Page		
9	Marker strips SK 5,0 WH:REEL Order No. 0805221	801		
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520			
	Ferrules with and without plastic sleeve	834		
À	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034			
Ħ	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983			

Current carrying capacity curve Type: SPT 16/...-H-10,0-ZB

Test based on DIN EN 60512-5-2:2003-01 Reduction factor = 1 Number of positions: 5



reciliicai data	Technical data				
Technical data in accordance to IEC / DIN VI	DE				
Rated current / conductor cross section	[A] / [mm ²]				
Rated insulation voltage for pollution degree	2 [V]				
Pitch	[mm]				
Connection capacity					
Solid & multi-strand / stranded	$[mm^2]/[mm^2]/AWG$				
Stranded with ferrules without plastic sleeve	[mm ²]				
Stranded with ferrules with plastic sleeve	[mm ²]				
Multi-conductor connection capacity (two conductors wit	th the same cross section)				
Solid & multi-strand / stranded	[mm ²]				
Stranded with ferrules without plastic sleeve	[mm ²]				
Stranded with TWIN ferrule with plastic sleev	e [mm²]				
Insulation coordination					
Surge voltage category / pollution degree					
Rated insulation voltage	[V]				
Rated surge voltage	[kV]				
Approval data (UL/CUL)	Use Group				
Nominal voltage	[V]				
Nominal current	[A]				
Connection capacity AWG	AWG				
Approval data (CSA)	Use Group				
Nominal voltage	[V]				
Nominal current	[A]				
Connection capacity AWG	AWG				
General data					
Stripping length	[mm]				
Type of insulation material / insulation material	al group				
Inflammability class according to UL 94					
Drill hole diameter / pin dimensions	[mm]				

SPT 16/ 1-H-10,0			SPT 16/H-10,0-ZB			
	761) / 16			76¹) / 16		
	1000			1000		
	10			10		
0.75 1	0.75 40/0.75 40/00 4			0.75 - 16 / 0.75 - 16 / 20 - 4		
0.75 - 16 / 0.75 - 16 / 20 - 4 0.75 - 16			0.75 - 16 / 0.75 - 16 / 20 - 4			
	0.75 - 16			0.75 - 10		
	0.75 - 10			0.75 - 10		
	-/-			-/-		
				-,-		
	0.75 - 4			0.75 - 4		
	0.70			0.70		
III/3	III/2	11/2	III/3	III/2	11/2	
1000	1000	1000	1000	1000	1000	
8	8	6	8	8	6	
В	С	D	В	С	D	
300	150	300	600	600	-	
66	66	10	66	66	-	
20 - 4	20 - 4	20 - 4	20 - 4	20 - 4	-	
В	С	D	В	С	D	
	-	-		-	-	
	-	-		-	-	
-	-	-	-	-	-	
	18			18		
	PA/I			PA / I		
V0			V0			
1.7 / 1.2 x 1 mm			1.7 / 1.2 x 1 mm			

No. of pos.	Dim. a [mm]
1	0.00
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
9	80.00

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²

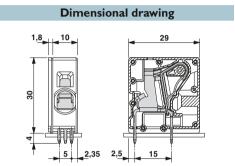


Individual PCB terminal block, double pinning

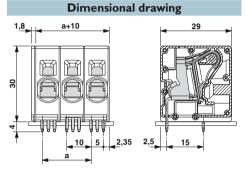


Z pinning, 600 V UL approval



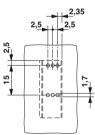


CCA CB

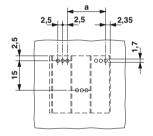


Drilling diagram









Ordering data			
Туре	Order No.	Pcs. / Pkt.	
10 mm pitch, color: green			
SPT 16/ 2-H-10,0-ZB	1735781	50	
SPT 16/ 3-H-10,0-ZB	1735794	50	
SPT 16/ 4-H-10,0-ZB	1735804	50	
SPT 16/ 5-H-10,0-ZB	1735817	50	
SPT 16/ 6-H-10,0-ZB	1735820	50	
SPT 16/ 7-H-10,0-ZB	1735833	50	
SPT 16/ 8-H-10,0-ZB	1735846	50	
SPT 16/ 9-H-10,0-ZB	1735859	50	

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²

Vertical connection direction, pitch 10 mm



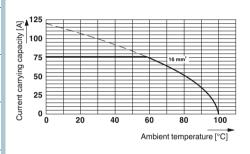
- SPT 16 PCB terminal block with push-in spring connection for conductor cross sections up to 16 mm² and a current carrying capacity of 76 A
- Fast connection technology, thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval, thanks to compact zig-zag pinning
- Connection direction of the conductor: horizontal (90° -V) to the PCB
- Single-position terminal blocks with double pinning
- Additional versions with anti-rotation protection for clear positioning during PCB assembly

Notes: When aligning versions with double pinning, other rated insulation voltages can occur. 1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories			
For all types	Туре	Page	
9	Marker strips SK 5,0 WH:REEL Order No. 0805221	801	
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520		
	Ferrules with and without plastic sleeve	834	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
ħ	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983		

Current carrying capacity curve Type: SPT 16/...-V-10,0-ZB

Test based on DIN EN 60512-5-2:2003-01 Reduction factor = 1 Number of positions: 5



Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section	[A] / [mm²]
	[A] / [mm²]
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded [mm²] /	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	cross section)
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

SPT 16/ 1-V-10,0		SPT 16/V-10,0-ZB			
	76¹) / 16			76¹) / 16	
	1000			1000	
	10			10	
0.75 - 1	6 / 0.75 - 16	6 / 20 - 4	0.75 - 1	6 / 0.75 - 16	6/20-4
	0.75 - 16			0.75 - 16	
	0.75 - 10			0.75 - 10	
	,			,	
	-/-			-/-	
	0.75 - 4	-		0.75 - 4	
	0.75 - 4			0.75 - 4	
III / O	III / O	11 / 0	III / O	III / O	11.70
1000	III / 2 1000	II / 2 1000	1000	1000	II / 2 1000
8	8	6	8	8	6
В	C	D	В	C	D
300	150	300	600	600	D
66	66	10	66	66	
20 - 4	20 - 4	20 - 4	20 - 4	20 - 4	-
В	C	D	В	C	D
	-	-		-	
	-			-	-
				-	-
	18			18	
	PA/I			PA/I	
	V0			V0	
1.7	7 / 1.2 x 1 m	nm	1.	7/1.2 x 1 m	nm

No. of pos.	Dim. a [mm]
1	0.00
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
9	80.00
2	10.00

PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²

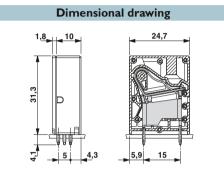


Individual PCB terminal block, double pinning

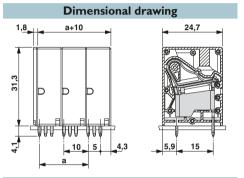


Z pinning, 600 V UL approval



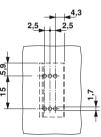


CCA CB



Drilling diagram

Drilling diagram





	2,5 4,3	
15 6,9		7,10

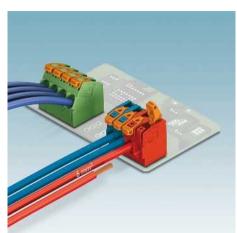
Туре	Order No.	Pcs. / Pkt.	
10 mm pitch, color: green			
SPT 16/ 2-V-10,0-ZB	1735875	50	
SPT 16/ 3-V-10,0-ZB	1735888	50	
SPT 16/ 4-V-10,0-ZB	1735891	50	
SPT 16/ 5-V-10,0-ZB	1735901	50	
SPT 16/ 6-V-10,0-ZB	1735914	50	
SPT 16/ 7-V-10,0-ZB	1735927	50	
SPT 16/ 8-V-10,0-ZB	1735930	50	
SPT 16/ 9-V-10,0-ZB	1735943	50	
10 mm pitch, color: green, with anti-rotation pins, drilling dia-			
gram, and dimensional drawing, see			
www.phoenixcontact.net/products			
SPT 16/ 2-V-10,0-ZBV GN	1775356	50	

Ordering data

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-lock spring connection, PL series up to 76 A/16 mm²

Horizontal and angled connection direction, pitch 7.5 mm



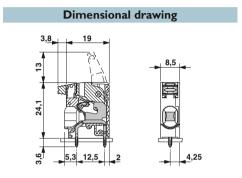
- PLH 5 and PLA 5 PCB terminal block with push-lock spring connection with lever operation for conductor cross sections up to 6 mm² and a current carrying capacity of up to 41 A
- Fast connection technology, thanks to the toolless "One-hand tilting lever principle" or the direct plug-in method
- Low actuation forces
- Unlimited 600 V UL approval already available with 7.5 mm pitch with zigzag
- Position to position color coding is possible, thanks to terminal blocks, which can be lined up next to each other, and tilting lever colors
- Integrated touch connection
- Supplied open



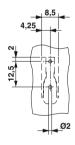


Individual PCB terminal block, horizontal connection direction, double pinning

F 11 do	1	D
For all types	Type Marker cards SK U/3,8 WH: UN- PRINTED Order No. 0803906	Page
11	Ferrules with and without plastic sleeve	834
A	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Drilling diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
	[mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the same	cross section)
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	-
Drill hole diameter / pin dimensions	[mm]

	412) / 6	
	1000	
	7.5	
0.2 - 6	6/0.2-6/2	24 - 10
	0.2 - 6	
	0.2 - 6	
	-/-	
	-/-	
	0.5 - 2.5	
III/3	III/2	11/2
1000	1000	1000
8	8	8
В	С	D
-	-	-
-	-	-
-	-	- D
В	С	D
-	-	-
-	-	-
-	-	-
	12	
	PA/I	
V0		
_	1.2 x 1.5 n	

No. of pos.	Dim. a [mm]
1	0.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
7.5 mm pitch, color: green				
PLH 5/ 1-7,5	1792096	25		
·				

PCB terminal blocks with push-lock spring connection, PL series up to 76 A/16 mm²



Horizontal connection direction, zig-zag pinning, 600 V UL approval



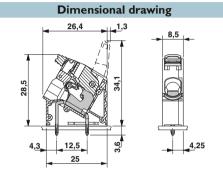
Individual PCB terminal block, 30° angled connection direction, double pinning



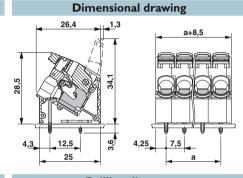
30° angled connection direction, zig-zag pinning, 600 V UL approval

Dimensional drawing

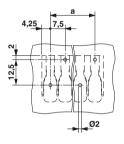
Drilling diagram



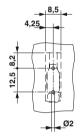
Drilling diagram



Drilling diagram



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
7.5 mm pitch, color: green			
PLH 5/ 2-7,5-ZF	1792106	25	
PLH 5/ 3-7,5-ZF	1792119	25	
PLH 5/ 4-7,5-ZF	1792122	25	
PLH 5/ 5-7,5-ZF	1792135	25	
PLH 5/ 6-7,5-ZF	1792148	25	
PLH 5/ 7-7,5-ZF	1792151	25	
PLH 5/ 8-7,5-ZF	1792164	25	
PLH 5/ 9-7,5-ZF	1792177	25	
PLH 5/10-7,5-ZF	1792180	25	
PLH 5/11-7,5-ZF	1792193	25	
PLH 5/12-7,5-ZF	1792203	25	



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: green		
PLA 5/ 1-7,5	1792216	25

	4,25	7,5	
12,5 8,2			
		Ø2	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
7.5 mm pitch, color: green			
PLA 5/ 2-7,5-ZF	1792229	25	
PLA 5/ 3-7,5-ZF	1792232	25	
PLA 5/ 4-7,5-ZF	1792245	25	
PLA 5/ 5-7,5-ZF	1792258	25	
PLA 5/ 6-7,5-ZF	1792261	25	
PLA 5/ 7-7,5-ZF	1792274	25	
PLA 5/ 8-7,5-ZF	1792287	25	
PLA 5/ 9-7,5-ZF	1792290	25	
PLA 5/10-7,5-ZF	1792300	25	
PLA 5/11-7,5-ZF	1792313	25	
PLA 5/12-7,5-ZF	1792326	25	

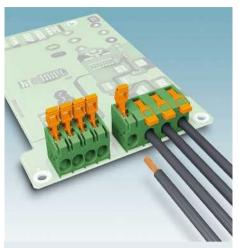
PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-lock spring connection, PL series up to 76 A/16 mm²

Horizontal connection direction up to 10/15 mm pitch

Notes:

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.



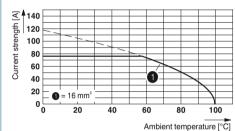
- PLH 16 terminal block with push-lock spring connection with lever operation for conductor cross sections up to 16 mm² and a current carrying capacity of up to 76 A
- Low actuation forces
- Fast connection technology, thanks to the toolless "One-hand tilting lever principle" or the direct plug-in method
- Unrestricted 600 V-UL approval already available with a 10 mm pitch with zig-zag pinning
- Touch connection for integration in the center of the lever
- Color coding from position to position, thanks to terminal blocks that can be mounted side by side
- Supplied open

For all types	Туре	Page
* .	Marker cards SK U/3,8 WH: UN- PRINTED Order No. 0803906	
	Ferrules with and without plastic sleeve	834
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Ħ	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

Current carrying capacity curve

Type: PLH 16/...-10 Tested in accordance with DIN EN 60512-5-2:2003-01

No. of positions: 5 Conductor cross section: 16 mm²



Technical data	
Technical data in accordance to IEC / DIN VDI	
Rated current / conductor cross section	[A] / [mm²
Rated insulation voltage for pollution degree 2	[V
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

PI	_H 16/10)	PLI	H 16/10	-ZF	P	LH 16/1	5
	76¹) / 16			76¹) / 16			761) / 16	
	400			1000			1000	
	10			10			15	
0.75 - 1	6 / 0.75 - 16	18 - 4	0.75 - 1	6 / 0.75 - 16	6 / 18 - 4	0.75 - 1	6 / 0.75 - 16	6 / 18 - 4
	0.75 - 16			0.75 - 16			0.75 - 16	
	0.75 - 10			0.75 - 10			0.75 - 10	
	-/-			-/-			-/-	
	0.75 - 4			0.75 - 4			0.75 - 4	
III / 0		11.40	111.70	III / 0	11.70	W / O	W / O	11.10
III / 3	III / 2	11/2	III / 3	111/2	11/2	III/3	III / 2	11/2
400	400	800 4	1000	1000	1000	1000	1000	1000
B B	C C	D D	В	C		В	C	
300	300	D	600	600	D	600	600	D
51	51		51	51		66	66	-
18 - 6	18 - 6		18-6	18 - 6		18 - 4	18 - 4	
В	C	D	В	C	D	В	C	D
-	C	D	Ь	-	U	-	C	-
	- :						- :	
	18			18			18	
	PA/I		-	PA/I			PA/I	
	V0		-	V0			V0	
1.6	/ 1.2 x 1.2 r	mm	1.6	/ 1.2 x 1.2	mm	1.6	/ 1.2 x 1.2 r	mm

No. of pos.	Dim. a [mm]
1	
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00
7	90.00
8	105.00

PCB terminal blocks with push-lock spring connection, PL series up to 76 A/16 mm²



Double pinning, 10 mm pitch

Dimensional drawing

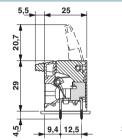


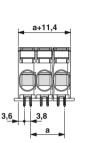
600 V UL approval, Z pinning, 10 mm pitch



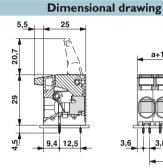
600 V UL approval, double pinning, 15 mm pitch

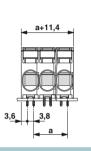




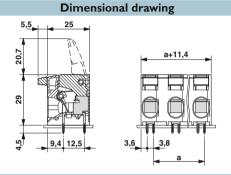


CCA CB





CCA CB

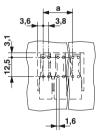


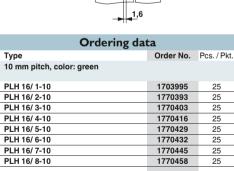
Drilling diagram

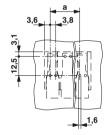


Drilling diagram

Drilling diagram







Ordering date	ta	
Туре	Order No.	Pcs. / Pkt.
10 mm pitch, color: green		
PLH 16/ 2-10-ZF	1770461	25
PLH 16/ 3-10-ZF	1770474	25
PLH 16/ 4-10-ZF	1770487	25
PLH 16/ 5-10-ZF	1770490	25
PLH 16/ 6-10-ZF	1770500	25
PLH 16/ 7-10-ZF	1770513	25
PLH 16/ 8-10-ZF	1770526	25

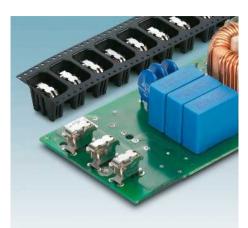
21 	:	a 3,8	
_1,6	-	1)

Ordering data		
Туре	Order No.	Pcs. / Pkt.
15 mm pitch, color: green		
PLH 16/ 2-15	1770539	25
PLH 16/ 3-15	1770542	25
PLH 16/ 4-15	1770555	25
PLH 16/ 5-15	1770568	25
PLH 16/ 6-15	1770571	25
PLH 16/ 7-15	1770584	25
PI H 16/8-15	1770597	25

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with push-lock spring connection for the reflow process, PTSPL series up to 41 A/6 mm²

Horizontal connection direction without insulating housing



- PTSPL 6 push-lock spring-cage PCB terminal block without insulating body for conductor cross sections up to 6 mm² and a current carrying capacity of up to 41 A
- For use in SMT reflow processes
- Low actuation forces
- Delivery form: tape-on-reel packing according to IEC 60286-3 for automated mounting; 330 mm reel diameter
- PTSPL spring closed for assembly with vacuum pipette
- PTSPLO spring opened for assembly with mechanical gripper
- Standard pin lengths of 2.1 mm and 2.9 mm

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at www.phoenixcontact.net/products.

1) UL/CUL on request.

2) Please observe the current carrying capacity curves and laboratory data sheets. Current carrying capacity curves can be found at www.phoenixcontact.net/products.

Α	ccessories	
For all types	Туре	Page
•	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Ferrules with and without plastic sleeve	834
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Technical data		PTSI	PL-6/1-2X2	2,1	PTSF	PLO-6/1-2X	2 2,1
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A1 / [21		412) / 6			412) / 6	
	[A] / [mm²] [V]	-	412)/6			41-)/6	
Rated insulation voltage for pollution degree 2	[v]		-			-	
Pitch	[mm]	-	-			-	
Connection capacity							
Solid & multi-strand / stranded [mm²] /	[mm ²] / AWG		-/2.5-6/-			-/2.5-6/-	
Stranded with ferrules without plastic sleeve	[mm ²]		2.5 - 6			2.5 - 6	
Stranded with ferrules with plastic sleeve	[mm ²]		-			-	
Multi-conductor connection capacity (two conductors with the same	cross section)						
Solid & multi-strand / stranded	[mm ²]		-/-			-/-	
Stranded with ferrules without plastic sleeve	[mm ²]		-			-	
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		-			-	
Insulation coordination							
Surge voltage category / pollution degree		III/3	III/2	II / 2	III/3	III/2	11/2
Rated insulation voltage	[V]						
Rated surge voltage	[kV]						
Approval data (UL/CUL)	Use Group	В	С	D	В	С	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
Approval data (CSA)	Use Group	В	С	D	В	С	D
Nominal voltage	[V]		-	-		-	-
Nominal current	[A]		-	-		-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]		15			15	
Type of insulation material / insulation material group			-/-			-/-	
Inflammability class according to UL 94			-			-	
Drill hole diameter / pin dimensions	[mm]		1.3 / 0.6 x 1			1.3 / 0.6 x 1	
· · · · · · · · · · · · · · · · · · ·							

No. of pos.

PCB terminal blocks with push-lock spring connection for the reflow process, PTSPL series up to 41 A/6 mm²



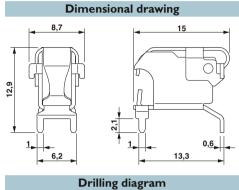


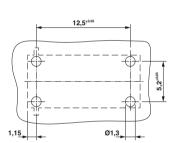


Closed on delivery, tape-on-reel packing

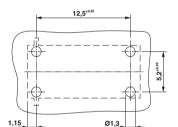
Open on delivery, individual PCB terminal block without insulating body, tape-on-reel packing

Dimensional drawing 8,7 12,9





Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
PCB terminal block closed, pin length 2.1 mm				
PTSPL-6/1-2X2 2,1 R32	1704836	240		
PCB terminal block closed, pin length 2.9 mm				
PTSPL-6/1-2X2 2,9 R32	1704837	240		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
PCB terminal block open, pin length 2.1 mm				
PTSPLO-6/1-2X2 2,1 R32 1705081 220				
Open PCB terminal block, pin length 2.9 mm				
PTSPLO-6/1-2X2 2,9 R32	1705085	220		

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with spring-cage connection, ZFKDS series up to 76 A/16 mm²

Angled connection direction, pitch 7.5 mm



- PCB terminal blocks with spring-cage connection up to 6 mm² conductor cross section
- Fully insulated bridges (FBSK) with different number of positions, e. g. for potential distribution
- Integrated test connection
- Pitch spacers (RZ) for voltage expansion
- Optional mounting flange (FL) for safe mounting in the device
- Colored marking of individual positions is possible
- A ZFKDSA end terminal block must be used at the end of a row of terminal blocks

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

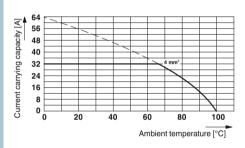
The current carrying capacity of the FBSK-ZFKDS 4 plug-in bridge is 20 A (see laboratory data sheet).

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories For all types Type Page Pitch spacer, width: 2.5 mm RZ-ZFKDS 4 Order No. 1928521 Pair of flanges FL-ZFKDS 4 Order No. 1928495 Marker cards 800 SK 7,5/5 or SK10/5 Flat Zack marker strip ZBF 7,5 or ZBF 10 Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 Order No. 1212034 Only for ZFKDS 4... Plug-in bridge **FBSK...** 830

Current carrying capacity curve

Type: ZFKDS 4-7,5 and ZFKDSA 4-9 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



lechnical data	
Technical data in accordance to IEC / DIN VDB	='
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
	-

ZI	ZFKDS 4- 7,5			ZFKDS 4-10		
	321) / 6			321) / 6		
	630			630		
7.5				10		
0.2 - 6	6/0.2-4/2	24 - 10	0.2 -	6/0.2-4/2	24 - 10	
	0.25 - 4			0.25 - 4		
	0.25 - 4			0.25 - 4		
	-/-			-/-		
	-			-		
	-			-		
III / 3	III/2	11/2	III / 3	III/2	11/2	
500	630	1000	630	630	1000	
6	6	6	6	6	6	
В	С	D	В	С	D	
300	150	300	300	300	600	
30	30	10	30	30	5	
24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	
В	С	D	В	С	D	
	-	-		-	-	
	-	-		•	•	
-		-	-	-		
	40			40		
	10	_	10			
	PA/I		PA / I V0			
	V0		- 			
1.8	/ 1.0 x 1.4 ı	TITTI	1.8 / 1.0 x 1.4 mm			

No. of pos.
1
1
1

PCB terminal blocks with spring-cage connection, ZFKDS series up to 76 A/16 mm²

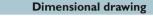


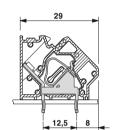


7.5 mm pitch, with test connection, bridgeable

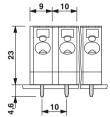
10 mm pitch, with test connection, bridgeable

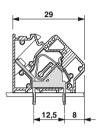






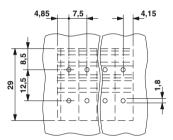




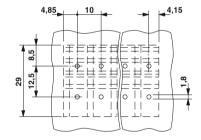


Drilling diagram

Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
7.5 mm pitch, color: green				
ZFKDS 4- 7,5	1907526	50		
End terminal block, 9 mm wide, require nal row	ed at the end o	of a termi-		
ZFKDSA 4-9	1907542	50		

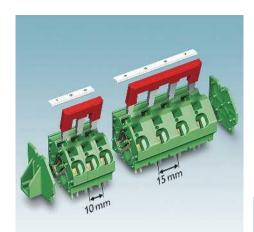


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
10 mm pitch, color: green				
ZFKDS 4-10	1907539	50		
End terminal block, 9 mm wide, required at the end of a terminal row				
ZFKDSA 4- 9	1907542	50		

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

PCB terminal blocks with spring-cage connection, ZFKDS series up to 76 A/16 mm²

Angled connection direction, pitch 10 mm



- PCB terminal blocks with spring-cage connection up to 16 mm² conductor cross section
- 15 mm pitch for the unrestricted 600-V-**UL** approval
- Fully insulated bridges (FBSK) with different number of positions, e. g. for potential distribution
- Integrated test connection

Technical data in accordance to IEC / DIN VDE

- Optional mounting flange (FL) for safe mounting in the device
- Colored marking of individual positions is possible
- A ZFKDSA end terminal block must be used at the end of a row of terminal blocks

Technical data

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of posi-

The current carrying capacity of the FBSK-ZFKDS 10 plug-in bridge is 57 A (see laboratory data sheet).

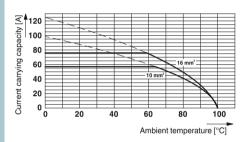
1) When the bridge is used, the voltage is reduced to 800 V.

2) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories For all types Туре Page Pair of flanges FL-ZFKDS 10 1987070 Screwdriver SZF 3-1,0 x 5,5 Order No. 1206612 801 Marker strips SK 5,0 WH:REEL Order No. 0805221 Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 1212034 Crimping pliers for 10 to 16 mm² CRIMPFOX 16 S Order No. 1207983 Only for ZFKDS 10-.. Plug-in bridge FBSK.../ZFKDS 10 830

Current carrying capacity curve

Type: ZFKDS 10-10,00 and ZFKDSA 10-11,7 Test following DIN EN 60512-5-2:2003-01 Reduction factor = 1 No. of positions: 5



Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors w	ith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	/e [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	

[mm]

[mm]

ZFI	ZFKDS 10-10,00			ZFKDS 10-15,00		
	762) / 16			762) / 16		
	400			1000¹)		
10			15			
0.2 - 1	6 / 0.2 - 16 /	24 - 6	0.2 - 1	6 / 0.2 - 16	/ 24 - 6	
	0.25 - 10			0.25 - 10		
	0.25 - 10			0.25 - 10		
	,			,		
	-/-	_		-/-		
	-			-		
	-			-		
III/3	III/2	11/2	III/3	III/2	II/2	
320	400	800	10001)	10001)	10001)	
4	4	4	8	8	8	
В	C	D	В	C	D	
300	150	300	600	600	-	
65	65	10	65	65	-	
24 - 6	24 - 6	24 - 6	24 - 6	24 - 6	-	
В	С	D	В	С	D	
-	-	-	-	-		
-	-	-	-	-	-	
-	-	-	-	-	-	
	12		12			
	PA/I		PA/I			
	V0			V0		
2	2.2 / 1.2 x 1.	4	2.2 / 1.2 x 1.4			

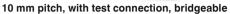
No. of pos.	
1	
1	
1	
1	

Stripping length

Type of insulation material / insulation material group Inflammability class according to UL 94 Drill hole diameter / pin dimensions

PCB terminal blocks with spring-cage connection, ZFKDS series up to 76 A/16 mm²



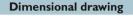


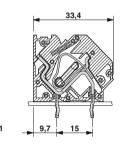


15 mm pitch, with test connection, bridgeable, 600 V UL approval

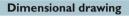


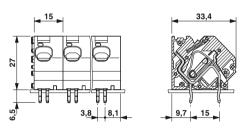
10►





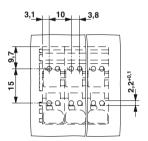
CB CB



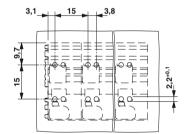


Drilling diagram

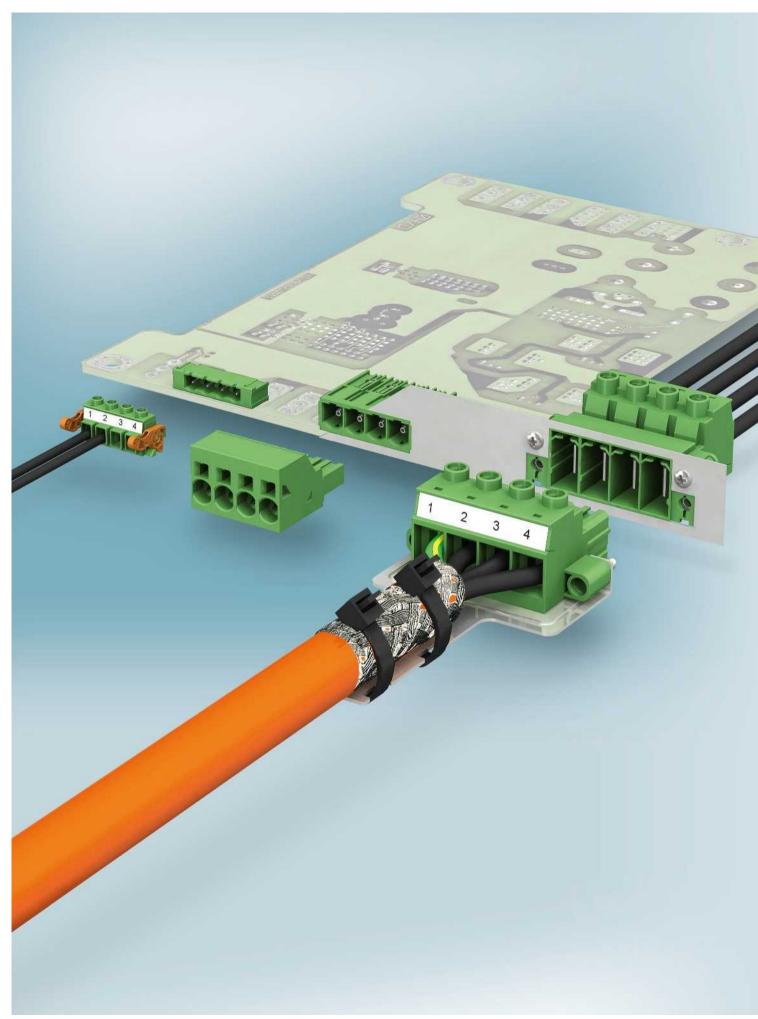
Drilling diagram







Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
15 mm pitch, color: green		
ZFKDS 10-15,00	1986631	50
End terminal block, 16.7 mm wide, req minal row,	uired at the en	d of a ter-
ZFKDSA 10-16,7	1987067	50



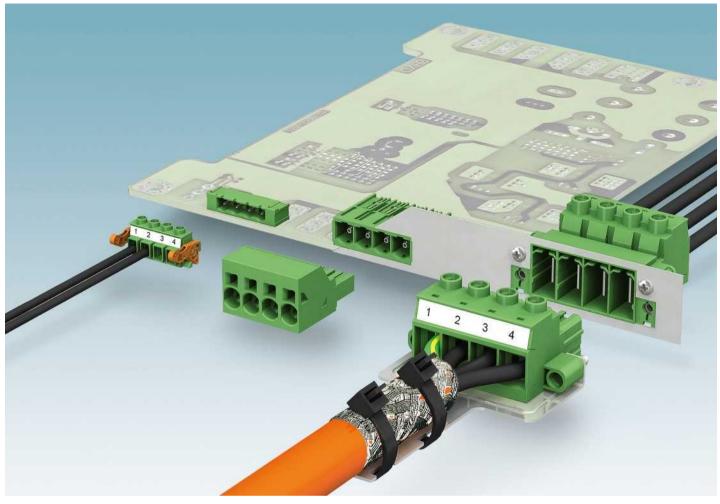
Plug-in connectors for power electronics

COMBICON power plug-in connectors provide professional connection solutions for power electronics. Plug-in PCB connections for numerous possible combinations are available from 16 A with the HC series up to 125 A in the PC 35 series. The conductors are connected with the proven screw connection technology (tension sleeve principle) or alternatively using the user-friendly direct plug-in technology.

In the high-performance classes 41 A (PC 5 series) and 76 A (PC 16 series) in particular, every one of the many and varied combinations supported by touch-protected (inverted) versions and housing feedthroughs is plug-in-capable and easy to maintain. In compact pitches and with 600 V UL approvals, the high-power plug-in connectors provide a connection for all applications with large cross sections anywhere on the global market.

General	482
COMBICON power cross-reference list	484
HC series plug-in connectors up to 16 A/2.5 mm ² , pitch 5.0 or 5.08/7.62 mm	490
Plugs with screw and spring connection	490
Headers with pin contact	490
Headers with socket contact	498
Vertical plugs for 600 V UL	498
Plugs with screw connection for 600 V UL	502
Headers with pin contact	504
Headers with socket contact	506
ME/ME MAX plug-in connectors/headers, pitch 7.25 mm	508
PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm	512
Plugs with screw and crimp connection	512
Headers with pin contact	512
Feed-through headers with pin contact	518
Headers with pin contact for DIN rail mounting	521
Cable housing for PC 4 plugs	521
PC 5 series plug-in connectors up to 41 A/10 mm ² , pitch 7.62 mm	521
Plugs with screw connection	521
Plugs with push-in spring connection	530
Headers with pin contact	536
Headers with socket contact	540
Feed-through headers with pin contact	544
PC 6 series plug-in connectors up to 41 A/6 mm ² , pitch 10.16 mm	550
Plugs with screw connection	550
Headers with pin contact	566
Plugs for direct mounting with socket contact	552
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm	554
Plugs with screw and push-in spring connection	554
Headers with pin contact	566
Headers with socket contact	570
Feed-through headers with pin/socket contact	574
PC 35 series plug-in connectors up to 125 A/35 mm ² , pitch 15 mm	586
Plugs with screw connection	586
Headers with pin contact	590
Headers with socket contact	592
Sheet metal cutout dimensions	504

General

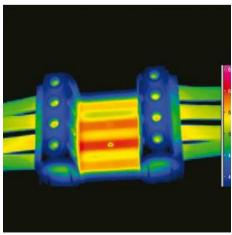


125 A via the PCB? It works!

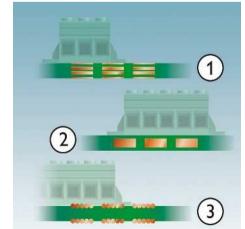
Used in conjunction with high-current PCBs, the plug-in connectors for the power electronics support a current carrying capacity of up to 125 A.

Different PCB production technologies are providing new options for device design. The necessary functions and modules can now be grouped together on a single PCB. In this manner, expensive additional device wiring can be eliminated.



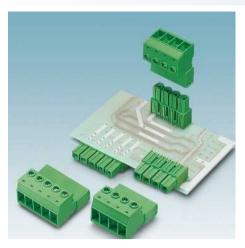


Thermographic image of a test application with 125 A



PCB production technologies

- -1 = Multi-layer technology
- ② = Thick copper technology
- ③ = Wire-writing technology



Touch-protected PCB inputs and out-

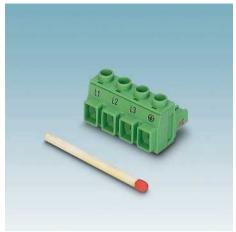
The inverted plugs and headers provide the option of touch-protected PCB and device outputs. Furthermore, they also enable PCB/PCB and cable/cable connections to be implemented.

This enables a new level of freedom in device design.



Extra safety for optimum performance

All plug-in connectors for the power electronics have an integrated double steel spring. This covering spring provides additional safety in the event of power and temperature fluctuations. Contact corrosion is prevented as the double steel spring exerts additional pressure on the contact. This ensures the long-term stability of the contact resistance.



UL approvals for 600 V high-current applications

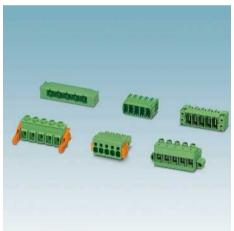
The plug-in connectors for the power electronics offer 600 V UL approval for every application, even those with the smallest of dimensions. Please note that a distinction must be made here between product and device approvals. The COMBICON power flyer lists the applicable approvals for products and applications in detail.



Plug versions with shield connection/strain relief

The shielded plug versions (-STF-SH) in the PC 5, PC 6, PC 16, and PC 35 product ranges provide a professional connection solution for the braided shield, which prevents electrical interference and meets EMC requirements.

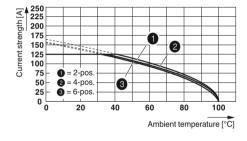
- Spade connection for routing the shield
- PCB-SHIELD contacts the shield directly with the PCB
- Vibration-resistant connection, thanks to screws integrated in plug flange



Reliable connection when exposed to vibration:

A fixed connection is essential for applications which experience high vibrations. A fixed connection can be implemented with:

- Conventional screw flange
- Automatic interlocking click & lock sys-
- New Lock & Release system, with ejector lever



Current carrying capacity of the plugin connection

Derating data is provided in the catalog so that the permitted current carrying capacity of the plug-in connections can be determined. The maximum permissible current strength for a specific application can be read depending on the ambient temperature. The number of positions and the connection cross section of the conductor must also be taken into consideration. Please also refer to the laboratory data sheets of the corresponding products. For further information, see page 854.

			bessesses	000000000000000000000000000000000000000	**************************************	possed	
	COMBICON por plug-in connectors with		Annagana.	Samuel Control	Constitution of the Consti	70-20-20-20 V	
	Туре		MSTBA 2,5 HC/G MSTBVA 2,5 HC/G Page 496 497	MSTB 2,5 HC/GF MSTBV 2,5 HC/GF Page 497 497	FKIC 2,5 HC/ST FKIC 2,5 HC/STF Page 495	GMSTBA 2,5 HC/G GMSTBVA 2,5 HC/G Page 504	GIC 2,5 HCV/ST-7,62 Page 503
COMBICON power plug-in connectors with socket contact		Pitch	5.0 5.08	5.0 5.08	5.08	7.62	7.62
примания при	MSTB 2,5 HCST Page 490 MSTB 2,5 HCSTF Page 491	5.0 5.08 5.0 5.08	•	•	•		
ARRIAN PARIS	MSTBT 2,5 HCST Page 491	5.0	•				
ANNANANA ANNANANA	MVSTBR 2,5 HCST Page 492 MVSTBR 2,5 HCSTF Page 493	5.0 5.08 5.0 5.08	•	•	•		
ARRESTE SECTION	MVSTBW 2,5 HCST Page 493 MVSTBW 2,5 HCSTF Page 493	5.0 5.08 5.0 5.08	•	•	•		
terrerere terrerere	FKC 2,5 HC/ST Page 494 FKC 2,5 HC/STF Page 495	5.0 5.08 5.0 5.08	•	•	•		
Contain a circulate	IC 2,5 HC/G Page 498 ICV 2,5 HC/G Page 499	5.08 5.08	•		•		
manuscripton (2)	IC 2,5 HC/GF Page 499 ICV 2,5 HC/GF Page 499	5.08 5.08			•		
	GMSTB 2,5 HCV/ST Page 502	7.62				•	•
	GIC(V) 2,5 HC/G- Page 506	7.62				•	•

	COMBICON por plug-in connectors with	wer pin contact	
	Туре		GMSTB(V)A 2,5 HC/G-7,62-LR Page 505
COMBICON power plug-in connectors with socket contact		Pitch	7.62
Series De la Constitución de la	GMSTB 2,5 HCVST-LR Page 503	7.62	•

	COMBICON p plug-in connectors wi	ower th pin contact	GIGIGIGIA (A)	THE POPULATION OF THE POPULATI	ulululu to	AUDUR:		
	Туре		IPC 35 HC/STF Page 588	IPC 35 HC/STGF(-SH) Page 588	IPC 35 HC/ STF-SH Page 589	PC 35 HC/GF Page 590	PCV 35 HC/GF Page 591	PC 35 HC/GF- SH Page 591
COMBICON power plug-in connectors with socket contact		Pitch	15.00	15.00	15.00	15.00	15.00	15.00
didididid io	PC 35 HCSTF Page 586	15.00		•		•	•	
u u u u	PC 35 HCSTF-SH Page 587	15.00		•				•
	IPC 35 HCGF Page 592	15.00	•			•	•	
	IPCV 35 HCGF Page 593	15.00	•			•	•	
ETHORN S	DFK-IPC 35 HC/GF Page 593	15.00	•		•			
Salara Salara	DFK-IPCV 35 HCGF Page 593	15.00	•		•			

				ARABA .				HILLIA		
		COMBICC power plug-in connectors w			4.3	The same of the sa		IRRAR 6	IIIII P	
		Туре		PC 4/G PCV 4/G Page 516	DFK-PC 4/GF Page 518	DFK-PC/G FS-4,8 Page 519	PCVK 4-7,62-(PE) UPCV3K 4-G-7,62 Page 521	IPC 5/ST IPC 5/STF-(SH) Page 526	IPC 5/STGCL Page 527	
	COMBICON power plug-in connectors with socket contact		Pitch	7.62	7.62	7.62	7.62	7.62	7.62	
	in one	PC 4ST Page 512 PC 4STF Page 513	7.62 7.62	•	•	•	•			
	A A A A A	PCC 4ST Page 514	7.62	•		•	•			
	ARBAR ARBARA	PC 5/ST1 Page 524 PC 5/STF1 Page 525	7.62 7.62	•	•	•	•	•		
٠	BERE!	PC 5/STF-SH1 Page 525 PC 5/STCL1 Page 525	7.62 7.62	•					•	
٠	iiiiii	SPC 5/ST Page 530 SPC 5/STF-(SH) Page 531	7.62 7.62					•		
	i i i i i	SPC 5/STCL Page 531	7.62						•	
	11111	TSPC 5/ST Page 532 TSPC 5/STF Page 533	7.62 7.62					•		
٠	29799	TSPC 5/STCL Page 533	7.62						•	
٠		IPC 5/G(U) Page 540 IPC 5/GF(U) Page 541	7.62 7.62					•		
•		IPCV 5/G Page 542 IPCV 5/GF Page 543	7.62					•		

IPC 5/STGF IPC 5/STGF-SH Page 527 528 7.62	ISPC 5/STGCL Page 534	ISPC 5/STF ISPC 5STGF Page 535	PC 5/G(U) PCV 5/G Page 536 538 7.62	PC 5/GF(U) PCV 5/GF Page 537 539	DFK(V)-PC 5/G(U) Page 544 547 7.62	DFK-PC(V) 5/GF(U)-SH Page 546	DFK-PC 5/ST Page 548	DFK-PC 5/STF- (SH) Page 549
•	•	•	•	•	•	•	•	•
•	•		•		•	•	•	•
•	•	•	•	•	•	•	•	•
	•		•		•	-	•	
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	•	•	•					

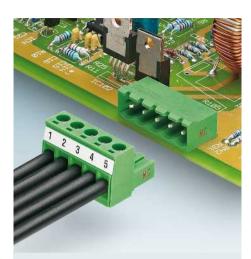
	COMBICC power plug-in connectors w		REMEN	REERE !	mm/	66666	66666	66666	
	Туре		IPC 16/ST Page 558	IPC 16/STF- (SH) Page 559	IPC 16/STGF- (SH) Page 560	ISPC 16/ST Page 564	ISPC 16/STF Page 565	ISPC 16/STGF Page 565	
COMBICON power plug-in connectors with socket contact		Pitch	10.16	10.16	10.16	10.16	10.16	10.16	
REMAR SERVER	PC 6ST Page 550 PC 6STF-(SH) Page 551	10.16 10.16							
	PCU 6STD Page 552	10.16	•			•			
	PC 16/ST Page 554 PC 16/STF-(SH) Page 555	10.16 10.16	•		•	•		•	
TITTE TITTE	TPC 16/ST Page 556 TPC 16/STF Page 557	10.16 10.16	•		•	•		•	
66666 16666	SPC 16/ST Page 562 SPC 16/STF-(SH) Page 563	10.16 10.16	•		•	•		•	
delelele) elelelele	IPC 16/G(U) Page 570 IPC 16/GF(U) Page 571	10.16 10.16	•	•		•	•		
	IPCV 16/G Page 572 IPCV 16/GF Page 573	10.16	•	•		•	•		
Toose i	DFK-IPC(V) 16/G(U) Page 578 DFK-IPC(V) 16/GF(U)-(SH) Page 581	10.16	•	•		•	•		
TOCOCOTI TOCOCOTI	DFK-IPC 16/ST Page 584 DFK-IPC 16/STF-(SH) Page 585	10.16	•	•		•	•		

¹⁾ Only with POWER COMBICON PCB-SHIELD

PC(V) 6-16/G1 PC 6-16/G1U	PC(V) 6-16/G1F PC 6-16/G1FU	DFK-PC(V) 6-16/G(U)	DFK-PC(V) 6- 16/GF(U)-(SH)	DFK-PC 16/ST	DFK-PC 16-STF-(SH)
Page 566 568	Page 567 569	Page 574 577	Page 575 577	Page 582	Page 583
10.16	10.16	10.16	10.16	10.16	10.16
•		•			
	•		•		
•					
•		•		•	
•	•		•		•
•	•	•	•	•	•
•		•		•	
•	•		•		•
•					
•					

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Plugs with screw and spring connec-



- The "High Current" (HC) versions with screw connection transmit a current of
- MSTB 2,5 HC plugs should be used only with HC headers
- The double steel spring ensures additional safety, especially in case of temperature and capacity fluctuations
- Coding profile CP-MSTB as protection against mismatching
- Available as a T-version (MSTBT 2,5 HC)

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

Corresponding HC headers can be found starting from page 496.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

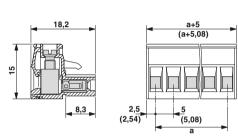


Without screw flange

Dimensional drawing

CB CB

Accessories For all types Туре Page Coding profile CP-MSTB 38 1734634 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Marker cards 798 SK 5/3,8 or SK 5,08/3,8



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	
Technical data in accordance to IEC / DIN VD	_
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	l group
Inflammability class according to UL 94	

	16 ¹) / 2.5	
	320	
	5/5.08	
0.2 - 2.5	/ 0.2 - 2.5	
	0.25 - 2.5	
	0.25 - 2.5	
0.2	2 - 1 / 0.2 -	1.5
	0.25 - 1	
	0.5 - 1.5	
III/3	III/2	11/2
250	320	630
4	4	4
В	С	D
300	-	300
16	-	15
30 - 12	-	30 - 12
В	С	D
		-
		-
		-
	7	
	M3	
	0.5 - 0.6	
	PA/I	
	V0	
	VU	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	MSTB 2,5 HC/ 2-ST	1911855	50
3	10.00	MSTB 2,5 HC/ 3-ST	1911868	50
4	15.00	MSTB 2,5 HC/ 4-ST	1911871	50
5	20.00	MSTB 2,5 HC/ 5-ST	1911884	50
6	25.00	MSTB 2,5 HC/ 6-ST	1911897	50
7	30.00	MSTB 2,5 HC/ 7-ST	1911907	50
8	35.00	MSTB 2,5 HC/ 8-ST	1911910	50
9	40.00	MSTB 2,5 HC/ 9-ST	1911923	50
10	45.00	MSTB 2,5 HC/10-ST	1911936	50
11	50.00	MSTB 2,5 HC/11-ST	1911949	50
12	55.00	MSTB 2,5 HC/12-ST	1911952	50
		5.08 mm pitch, color: green		
2	5.08	MSTB 2,5 HC/ 2-ST-5,08	1911965	50
3	10.16	MSTB 2,5 HC/ 3-ST-5,08	1911978	50
4	15.24	MSTB 2,5 HC/ 4-ST-5,08	1911981	50
5	20.32	MSTB 2,5 HC/ 5-ST-5,08	1911994	50
6	25.40	MSTB 2,5 HC/ 6-ST-5,08	1912003	50
7	30.48	MSTB 2,5 HC/ 7-ST-5,08	1912016	50
8	35.56	MSTB 2,5 HC/ 8-ST-5,08	1912029	50
9	40.64	MSTB 2,5 HC/ 9-ST-5,08	1912032	50
10	45.72	MSTB 2,5 HC/10-ST-5,08	1912045	50
11	50.80	MSTB 2,5 HC/11-ST-5,08	1912058	50
12	55.88	MSTB 2,5 HC/12-ST-5,08	1912061	50



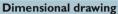




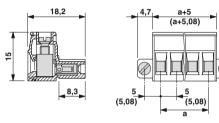
T contour, without screw flange

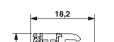
Dimensional drawing



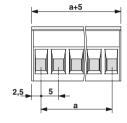






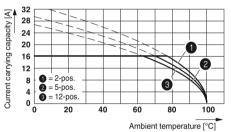


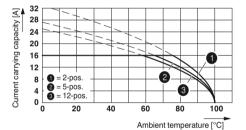
8,3



Representative derating curves of the above-mentioned plugs Type: MSTBT 2,5 HC/... -ST with MSTBVA 2,5 HC/..-G

Type: MSTB 2,5 HC/..-ST with MSTBA 2,5 HC/..-G



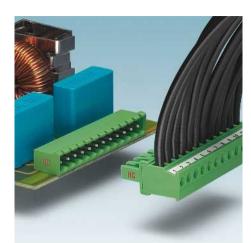


Ordering data								
Туре	Order No.	Pcs. / Pkt.						
5.0 mm pitch, color: green								
MSTB 2,5 HC/ 2-STF	1912074	50						
MSTB 2,5 HC/ 3-STF	1912087	50						
MSTB 2,5 HC/ 4-STF	1912090	50						
MSTB 2,5 HC/ 5-STF	1912100	50						
MSTB 2,5 HC/ 6-STF	1912113	50						
MSTB 2,5 HC/ 7-STF	1912126	50						
MSTB 2,5 HC/ 8-STF	1912139	50						
MSTB 2,5 HC/ 9-STF	1912142	50						
MSTB 2,5 HC/10-STF	1912155	50						
MSTB 2,5 HC/11-STF	1912168	50						
MSTB 2,5 HC/12-STF	1912171	50						
5.08 mm pitch, color: green								
MSTB 2,5 HC/ 2-STF-5,08	1912184	50						
MSTB 2,5 HC/ 3-STF-5,08	1912197	50						
MSTB 2,5 HC/ 4-STF-5,08	1912207	50						
MSTB 2,5 HC/ 5-STF-5,08	1912210	50						
MSTB 2,5 HC/ 6-STF-5,08	1912223	50						
MSTB 2,5 HC/ 7-STF-5,08	1912236	50						
MSTB 2,5 HC/ 8-STF-5,08	1912249	50						
MSTB 2,5 HC/ 9-STF-5,08	1912252	50						
MSTB 2,5 HC/10-STF-5,08	1912265	50						
MSTB 2,5 HC/11-STF-5,08	1912278	50						
MSTB 2,5 HC/12-STF-5,08	1912281	50						

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.0 mm pitch, color: green					
MSTBT 2,5 HC/ 2-ST	1926358	50			
MSTBT 2,5 HC/ 3-ST	1926248	50			
MSTBT 2,5 HC/ 4-ST	1926251	50			
MSTBT 2,5 HC/ 5-ST	1926264	50			
MSTBT 2,5 HC/ 6-ST	1926277	50			
MSTBT 2,5 HC/ 7-ST	1926280	50			
MSTBT 2,5 HC/ 8-ST	1926293	50			
MSTBT 2,5 HC/ 9-ST	1926303	50			
MSTBT 2,5 HC/10-ST	1926316	50			
MSTBT 2,5 HC/11-ST	1926329	50			
MSTBT 2,5 HC/12-ST	1926332	50			
·					

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Plugs with screw and spring connection



- 16 A plugs with vertical connection direction and screw connection
- MVSTBR 2,5 HC...ST, conductor entry on the coding side of the plug, therefore conductor exit to the top
- MVSTBW 2,5 HC...ST, conductor entry on the rippled side of the plug, therefore conductor exit to the bottom
- HC plugs should be used only with HC
- Versions with a screw flange (-STF) for a vibration-resistant connection

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

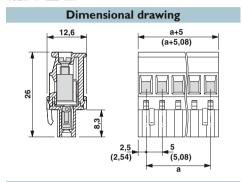
Corresponding HC headers can be found starting from page 496.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Connection point facing the smooth wall of the header (R)

CB CB



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories				
For all types	Туре	Page		
*	Coding profile CP-MSTB Order No. 1734634	38		
-	Screwdriver SZS 0,6 x 3,5 Order No. 1205053			
· 2	Marker cards SK 5/3,8 or SK 5,08/3,8	798		

V0

Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	-	$16^{1}) / 2.5$	
Rated insulation voltage for pollution degree 2	[V]		320	
Pitch	[mm]		5 / 5.08	
- · · · · · · · · · · · · · · · · · · ·	Įminj		3/3.06	
Connection capacity Solid / stranded [mm²]	/ [2] / ΔΙΔΙΟ	00.05	/ 0.2 - 2.5	/04 10
Stranded [mm-] Stranded with ferrules without plastic sleeve	/ [mm²] / AWG [mm²]	0.2 - 2.5	0.25 - 2.5	
		-	0.25 - 2.5	
Stranded with ferrules with plastic sleeve	[mm²]		0.25 - 2.5	
Multi-conductor connection capacity (two conductors with the san Solid / stranded	,	0.0	1/00	4.5
	[mm ²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm ²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm ²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	11/2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	16	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]		-	-
Nominal current	[A]	_	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]		7	
Screw thread			МЗ	
Tightening torque	[Nm]		0.5 - 0.6	
Type of insulation material / insulation material group)		PA/I	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	MVSTBR 2,5 HC/ 2-ST	1912294	50
3	10.00	MVSTBR 2,5 HC/ 3-ST	1912304	50
4	15.00	MVSTBR 2,5 HC/ 4-ST	1912317	50
5	20.00	MVSTBR 2,5 HC/ 5-ST	1912320	50
6	25.00	MVSTBR 2,5 HC/ 6-ST	1912333	50
7	30.00	MVSTBR 2,5 HC/ 7-ST	1912346	50
8	35.00	MVSTBR 2,5 HC/ 8-ST	1912359	50
9	40.00	MVSTBR 2,5 HC/ 9-ST	1912362	50
10	45.00	MVSTBR 2,5 HC/10-ST	1912375	50
11	50.00	MVSTBR 2,5 HC/11-ST	1912388	50
12	55.00	MVSTBR 2,5 HC/12-ST	1912391	50
		5.08 mm pitch, color: green		
2	5.08	MVSTBR 2,5 HC/ 2-ST-5,08	1912401	50
3	10.16	MVSTBR 2,5 HC/ 3-ST-5,08	1912414	50
4	15.24	MVSTBR 2,5 HC/ 4-ST-5,08	1912427	50
5	20.32	MVSTBR 2,5 HC/ 5-ST-5,08	1912430	50
6	25.40	MVSTBR 2,5 HC/ 6-ST-5,08	1912443	50
7	30.48	MVSTBR 2,5 HC/ 7-ST-5,08	1912456	50
8	35.56	MVSTBR 2,5 HC/ 8-ST-5,08	1912469	50
9	40.64	MVSTBR 2,5 HC/ 9-ST-5,08	1912472	50
10	45.72	MVSTBR 2,5 HC/10-ST-5,08	1912485	50
11	50.80	MVSTBR 2,5 HC/11-ST-5,08	1912498	50
12	55.88	MVSTBR 2,5 HC/12-ST-5,08	1912508	50

Inflammability class according to UL 94



With screw flange, connection point facing the smooth panel of the header (R)



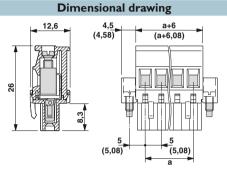
Connection point facing the rippled wall of the header (W)

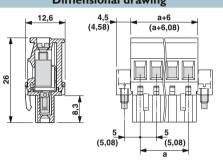
12,6



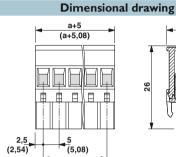
With screw flange, connection point facing the rippled wall (W) of the header

CB US CB

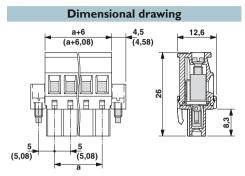




CB CB

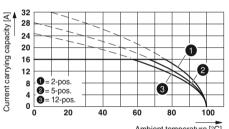


CB US CB



Representative derating curve

Type: MVSTBR 2,5 HC/..-ST with MSTBVA 2,5 HC/..-G



Ambient temperature [°	C]
------------------------	----

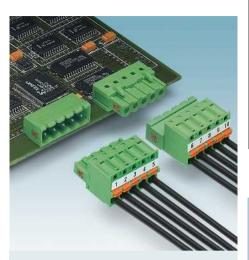
Ordering data				
Туре	Pcs. / Pkt.			
5.0 mm pitch, color: green				
MVSTBR 2,5 HC/ 2-STF	1912511	50		
MVSTBR 2,5 HC/ 3-STF	1912524	50		
MVSTBR 2,5 HC/ 4-STF	1912537	50		
MVSTBR 2,5 HC/ 5-STF	1912540	50		
MVSTBR 2,5 HC/ 6-STF	1912553	50		
MVSTBR 2,5 HC/ 7-STF	1912566	50		
MVSTBR 2,5 HC/ 8-STF	1912579	50		
MVSTBR 2,5 HC/ 9-STF	1912582	50		
MVSTBR 2,5 HC/10-STF	1912595	50		
MVSTBR 2,5 HC/11-STF	1912605	50		
MVSTBR 2,5 HC/12-STF	1912618	50		
5.08 mm pitch, color: green				
MVSTBR 2,5 HC/ 2-STF-5,08	1912621	50		
MVSTBR 2,5 HC/ 3-STF-5,08	1912634	50		
MVSTBR 2,5 HC/ 4-STF-5,08	1912647	50		
MVSTBR 2,5 HC/ 5-STF-5,08	1912650	50		
MVSTBR 2,5 HC/ 6-STF-5,08	1912663	50		
MVSTBR 2,5 HC/ 7-STF-5,08	1912676	50		
MVSTBR 2,5 HC/ 8-STF-5,08	1912689	50		
MVSTBR 2,5 HC/ 9-STF-5,08	1912692	50		
MVSTBR 2,5 HC/10-STF-5,08	1912702	50		
MVSTBR 2,5 HC/11-STF-5,08	1912715	50		
MVSTBR 2.5 HC/12-STF-5.08	1912728	50		

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MVSTBW 2,5 HC/ 2-ST	1912731	50	
MVSTBW 2,5 HC/ 3-ST	1912744	50	
MVSTBW 2,5 HC/ 4-ST	1912757	50	
MVSTBW 2,5 HC/ 5-ST	1912760	50	
MVSTBW 2,5 HC/ 6-ST	1912773	50	
MVSTBW 2,5 HC/ 7-ST	1912786	50	
MVSTBW 2,5 HC/ 8-ST	1912799	50	
MVSTBW 2,5 HC/ 9-ST	1912809	50	
MVSTBW 2,5 HC/10-ST	1912812	50	
MVSTBW 2,5 HC/11-ST	1912825	50	
MVSTBW 2,5 HC/12-ST	1912838	50	
5.08 mm pitch, color: green			
MVSTBW 2,5 HC/ 2-ST-5,08	1912841	50	
MVSTBW 2,5 HC/ 3-ST-5,08	1912854	50	
MVSTBW 2,5 HC/ 4-ST-5,08	1912867	50	
MVSTBW 2,5 HC/ 5-ST-5,08	1912870	50	
MVSTBW 2,5 HC/ 6-ST-5,08	1912883	50	
MVSTBW 2,5 HC/ 7-ST-5,08	1912896	50	
MVSTBW 2,5 HC/ 8-ST-5,08	1912906	50	
MVSTBW 2,5 HC/ 9-ST-5,08	1912919	50	
MVSTBW 2,5 HC/10-ST-5,08	1912922	50	
MVSTBW 2,5 HC/11-ST-5,08	1912935	50	
MVSTBW 2,5 HC/12-ST-5,08	1912948	50	

	Ordering date	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	5.0 mm pitch, color: green		
_	MVSTBW 2,5 HC/ 2-STF	1912951	50
	MVSTBW 2,5 HC/ 3-STF	1912964	50
	MVSTBW 2,5 HC/ 4-STF	1912977	50
	MVSTBW 2,5 HC/ 5-STF	1912980	50
	MVSTBW 2,5 HC/ 6-STF	1912993	50
-	MVSTBW 2,5 HC/ 7-STF	1913002	50
	MVSTBW 2,5 HC/ 8-STF	1913015	50
	MVSTBW 2,5 HC/ 9-STF	1913028	50
_	MVSTBW 2,5 HC/10-STF	1913031	50
	MVSTBW 2,5 HC/11-STF	1913044	50
	MVSTBW 2,5 HC/12-STF	1913057	50
	5.08 mm pitch, color: green		
	MVSTBW 2,5 HC/ 2-STF-5,08	1913060	50
	MVSTBW 2,5 HC/ 3-STF-5,08	1913073	50
	MVSTBW 2,5 HC/ 4-STF-5,08	1913086	50
	MVSTBW 2,5 HC/ 5-STF-5,08	1913099	50
	MVSTBW 2,5 HC/ 6-STF-5,08	1913109	50
-	MVSTBW 2,5 HC/ 7-STF-5,08	1913112	50
	MVSTBW 2,5 HC/ 8-STF-5,08	1913125	50
	MVSTBW 2,5 HC/ 9-STF-5,08	1913138	50
	MVSTBW 2,5 HC/10-STF-5,08	1913141	50
	MVSTBW 2,5 HC/11-STF-5,08	1913154	50
	MVSTBW 2,5 HC/12-STF-5,08	1913167	50

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Plugs with screw and spring connection



- Plug-in connectors with push-in spring connection as "High Current" (HC) version for 16 A
- Inverted versions with a pin contact (FKIC 2,5 HC); e.g. for cable-cable connections or motor outputs
- HC plugs should be used only with HC headers
- Two integrated test connections
- Coding profiles (CP) as protection against mismatching
- Versions with screw flange (STF)

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

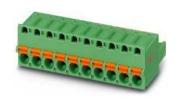
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

Corresponding HC headers can be found starting from page 496.

Corresponding inverted HC headers can be found starting from page 498.

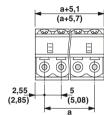
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, with socket contact

Dimensional drawing

CB CB



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

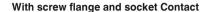
Accessories				
For all types	Туре	Page		
	Strain relief STZFKC-5,08	837		
Mu	Test plug MPS	831		
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053			
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034			
Only for FKC 2,5 HC/				
*	Coding profile CP-MSTB Order No. 1734634	38		
Only for FKIC 2,5 HC/ST(F)				
*	Coding section CR-MSTB Order No. 1734401	38		

Technical data	
Technical data in accordance to IEC / DIN VD	
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	

	16 ¹) / 2.5	
	320	
	5 / 5.08	
0.2 - 2.5	/ 0.2 - 2.5	
	0.25 - 2.5	
	0.25 - 1.5	
	,	
	-/-	
	- 0.5 - 1.5	
	0.5 - 1.5	
III. / O	III / O	11.70
III / 3	III / 2	11/2
250 4	320	630 4
	4	-
В	С	D
300 16	- - C	300 15
26 - 12	-	26 - 12
26 - 12 B	-	26 - 12 D
Б	C	U
	-	
-	-	-
	10	
	PA/I	
	V0	
	••	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	FKC 2,5 HC/ 2-ST	1942154	50
3	10.00	FKC 2,5 HC/ 3-ST	1942167	50
4	15.00	FKC 2,5 HC/ 4-ST	1942170	50
5	20.00	FKC 2,5 HC/ 5-ST	1942183	50
6	25.00	FKC 2,5 HC/ 6-ST	1942196	50
7	30.00	FKC 2,5 HC/ 7-ST	1942206	50
8	35.00	FKC 2,5 HC/ 8-ST	1942219	50
9	40.00	FKC 2,5 HC/ 9-ST	1942222	50
10	45.00	FKC 2,5 HC/10-ST	1942235	50
11	50.00	FKC 2,5 HC/11-ST	1942248	50
12	55.00	FKC 2,5 HC/12-ST	1942251	50
		5.08 mm pitch, color: green		
2	5.08	FKC 2,5 HC/ 2-ST-5,08	1942374	50
3	10.16	FKC 2,5 HC/ 3-ST-5,08	1942387	50
4	15.24	FKC 2,5 HC/ 4-ST-5,08	1942390	50
5	20.32	FKC 2,5 HC/ 5-ST-5,08	1942400	50
6	25.40	FKC 2,5 HC/ 6-ST-5,08	1942413	50
7	30.48	FKC 2,5 HC/ 7-ST-5,08	1942426	50
8	35.56	FKC 2,5 HC/ 8-ST-5,08	1942439	50
9	40.64	FKC 2,5 HC/ 9-ST-5,08	1942442	50
10	45.72	FKC 2,5 HC/10-ST-5,08	1942455	50
11	50.80	FKC 2,5 HC/11-ST-5,08	1942468	50
12	55.88	FKC 2,5 HC/12-ST-5,08	1942471	50







Inverted with pin contact



Inverted with pin contact, with screw flange

CB CB

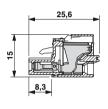
Dimensional drawing

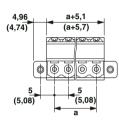


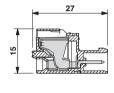
CB CB

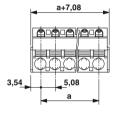
Dimensional drawing

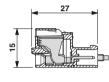
Dimensional drawing

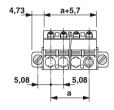






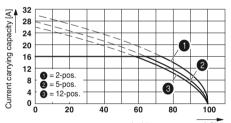




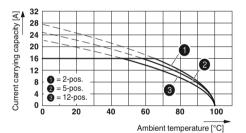


Representative derating curves of the above-mentioned plugs Type: FKIC 2,5 HC/...-ST- 5,08 with IC 2,5 HC/...-G- 5,08

Type: FKC 2,5 HC/...-ST with MSTBA 2,5 HC/...-G



Ambient temperature [°C]



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
FKC 2,5 HC/ 2-STF	1942264	50	
FKC 2,5 HC/ 3-STF	1942277	50	
FKC 2,5 HC/ 4-STF	1942280	50	
FKC 2,5 HC/ 5-STF	1942293	50	
FKC 2,5 HC/ 6-STF	1942303	50	
FKC 2,5 HC/ 7-STF	1942316	50	
FKC 2,5 HC/ 8-STF	1942329	50	
FKC 2,5 HC/ 9-STF	1942332	50	
FKC 2,5 HC/10-STF	1942345	50	
FKC 2,5 HC/11-STF	1942358	50	
FKC 2,5 HC/12-STF	1942361	50	
5.08 mm pitch, color: green			
FKC 2,5 HC/ 2-STF-5,08	1942484	50	
FKC 2,5 HC/ 3-STF-5,08	1942497	50	
FKC 2,5 HC/ 4-STF-5,08	1942507	50	
FKC 2,5 HC/ 5-STF-5,08	1942510	50	
FKC 2,5 HC/ 6-STF-5,08	1942523	50	
FKC 2,5 HC/ 7-STF-5,08	1942536	50	
FKC 2,5 HC/ 8-STF-5,08	1942549	50	
FKC 2,5 HC/ 9-STF-5,08	1942552	50	
FKC 2,5 HC/10-STF-5,08	1942565	50	
FKC 2,5 HC/11-STF-5,08	1942578	50	
FKC 2,5 HC/12-STF-5,08	1942581	50	

Ordering data			
Туре	Order No.	Pcs. / Pk	
5.08 mm pitch, color: green			
FKIC 2,5 HC/ 2-ST-5,08	1942594	50	
FKIC 2,5 HC/ 3-ST-5,08	1942604	50	
FKIC 2,5 HC/ 4-ST-5,08	1942617	50	
FKIC 2,5 HC/ 5-ST-5,08	1942620	50	
FKIC 2,5 HC/ 6-ST-5,08	1942633	50	
FKIC 2,5 HC/ 7-ST-5,08	1942646	50	
FKIC 2,5 HC/ 8-ST-5,08	1942659	50	
FKIC 2,5 HC/ 9-ST-5,08	1942662	50	
FKIC 2.5 HC/10-ST-5.08	1942675	50	

FKIC 2,5 HC/11-ST-5,08

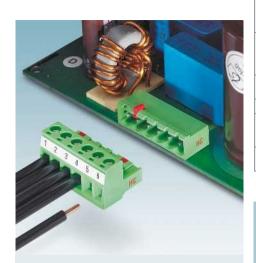
FKIC 2,5 HC/12-ST-5,08

Orderi	ng data	
Туре	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
FKIC 2,5 HC/ 2-STF-5,08	1942701	50
FKIC 2,5 HC/ 3-STF-5,08	1942714	50
FKIC 2,5 HC/ 4-STF-5,08	1942727	50
FKIC 2,5 HC/ 5-STF-5,08	1942730	50
FKIC 2,5 HC/ 6-STF-5,08	1942743	50
FKIC 2,5 HC/ 7-STF-5,08	1942756	50
FKIC 2,5 HC/ 8-STF-5,08	1942769	50
FKIC 2,5 HC/ 9-STF-5,08	1942772	50
FKIC 2,5 HC/10-STF-5,08	1942785	50
FKIC 2,5 HC/11-STF-5,08	1942798	50
FKIC 2,5 HC/12-STF-5,08	1942808	50

50

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Headers with pin contact



- 16-A (HC) header in horizontal and vertical (MSTBV) design
- Lateral HC print ("High Current")
- HC header should be used only with HC plugs
- Vibration-resistant connection with a threaded flange (-GF)
- Coding sections (CR) as protection against mismatching
- No possibility of lateral mismating due to side panels

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

Corresponding HC plug components can be found starting from page 490.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

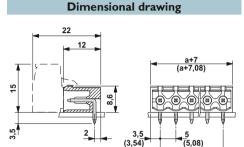
Please observe the derating curves and laboratory data sheets.
 Derating curves of further combination options on request.



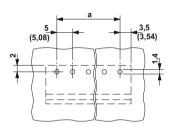
Horizontal

CB CB

Accessories			
For all types	Туре	Page	
*	Coding section CR-MSTB Order No. 1734401	38	
	Coding tab MSTB-BL Order No. 1755477	837	
• ./	Marker cards SK 5/3,8 orSK 5,08/3,8	798	



Drilling diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	16¹)	
	320	
	5 / 5.08	
III/3	III/2	11/2
250	320	400
4	4	4
В	С	D
300	-	300
16	-	15
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.4 / 1 x 1 mi	m

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	5.0 mm pitch, color: green		
2	5.00	MSTBA 2,5 HC/ 2-G	1923759	50
3	10.00	MSTBA 2,5 HC/ 3-G	1923762	50
4	15.00	MSTBA 2,5 HC/ 4-G	1923775	50
5	20.00	MSTBA 2,5 HC/ 5-G	1923788	50
6	25.00	MSTBA 2,5 HC/ 6-G	1923791	50
7	30.00	MSTBA 2,5 HC/ 7-G	1923801	50
8	35.00	MSTBA 2,5 HC/ 8-G	1923814	50
9	40.00	MSTBA 2,5 HC/ 9-G	1923827	50
10	45.00	MSTBA 2,5 HC/10-G	1923830	50
11	50.00	MSTBA 2,5 HC/11-G	1923843	50
12	55.00	MSTBA 2,5 HC/12-G	1923856	50
		5.08 mm pitch, color: green		
2	5.08	MSTBA 2,5 HC/ 2-G-5,08	1923869	50
3	10.16	MSTBA 2,5 HC/ 3-G-5,08	1923872	50
4	15.24	MSTBA 2,5 HC/ 4-G-5,08	1923885	50
5	20.32	MSTBA 2,5 HC/ 5-G-5,08	1923898	50
6	25.40	MSTBA 2,5 HC/ 6-G-5,08	1923908	50
7	30.48	MSTBA 2,5 HC/ 7-G-5,08	1923911	50
8	35.56	MSTBA 2,5 HC/ 8-G-5,08	1923924	50
9	40.64	MSTBA 2,5 HC/ 9-G-5,08	1923937	50
10	45.72	MSTBA 2,5 HC/10-G-5,08	1923940	50
11	50.80	MSTBA 2,5 HC/11-G-5,08	1923953	50
12	55.88	MSTBA 2,5 HC/12-G-5,08	1923966	50



Horizontal, with threaded flange



Vertical

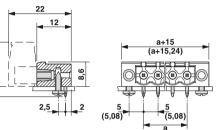


Vertical, with threaded flange

Dimensional drawing

CB CB

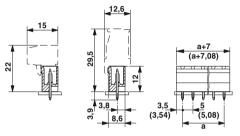
Dimensional drawing



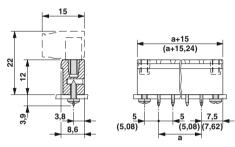
CB CB







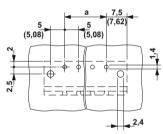
CB CB

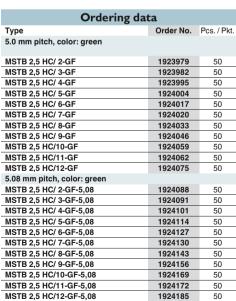


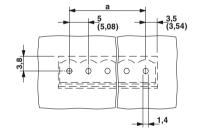
Drilling diagram

Drilling diagram

Drilling diagram







Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.0 mm pitch, color: green			
MSTBVA 2,5 HC/ 2-G	1924198	50	
MSTBVA 2,5 HC/ 3-G	1924208	50	
MSTBVA 2,5 HC/ 4-G	1924211	50	
MSTBVA 2,5 HC/ 5-G	1924224	50	
MSTBVA 2,5 HC/ 6-G	1924237	50	
MSTBVA 2,5 HC/ 7-G	1924240	50	
MSTBVA 2,5 HC/ 8-G	1924253	50	
MSTBVA 2,5 HC/ 9-G	1924266	50	
MSTBVA 2,5 HC/10-G	1924279	50	
MSTBVA 2,5 HC/11-G	1924282	50	
MSTBVA 2,5 HC/12-G	1924295	50	
5.08 mm pitch, color: green			
MSTBVA 2,5 HC/ 2-G-5,08	1924305	50	
MSTBVA 2,5 HC/ 3-G-5,08	1924318	50	
MSTBVA 2,5 HC/ 4-G-5,08	1924321	50	
MSTBVA 2,5 HC/ 5-G-5,08	1924334	50	
MSTBVA 2,5 HC/ 6-G-5,08	1924347	50	
MSTBVA 2,5 HC/ 7-G-5,08	1924350	50	
MSTBVA 2,5 HC/ 8-G-5,08	1924363	50	
MSTBVA 2,5 HC/ 9-G-5,08	1924376	50	
MSTBVA 2,5 HC/10-G-5,08	1924389	50	
MSTBVA 2,5 HC/11-G-5,08	1924392	50	
MSTBVA 2,5 HC/12-G-5,08	1924402	50	

(5,08)	a 5 (5,08)	7,5 (7,62)	
\$ F = 1	0	1,4	2,4

	Ordering date	ta	
t.	Туре	Order No.	Pcs. / Pkt.
	5.0 mm pitch, color: green		
	MSTBV 2,5 HC/ 2-GF	1924415	50
	MSTBV 2,5 HC/ 3-GF	1924428	50
	MSTBV 2,5 HC/ 4-GF	1924431	50
	MSTBV 2,5 HC/ 5-GF	1924444	50
	MSTBV 2,5 HC/ 6-GF	1924457	50
_	MSTBV 2,5 HC/ 7-GF	1924460	50
_	MSTBV 2,5 HC/ 8-GF	1924473	50
	MSTBV 2,5 HC/ 9-GF	1924486	50
	MSTBV 2,5 HC/10-GF	1924499	50
	MSTBV 2,5 HC/11-GF	1924509	50
	MSTBV 2,5 HC/12-GF	1924512	50
	5.08 mm pitch, color: green		
	MSTBV 2,5 HC/ 2-GF-5,08	1924525	50
	MSTBV 2,5 HC/ 3-GF-5,08	1924538	50
-	MSTBV 2,5 HC/ 4-GF-5,08	1924541	50
_	MSTBV 2,5 HC/ 5-GF-5,08	1924554	50
	MSTBV 2,5 HC/ 6-GF-5,08	1924567	50
	MSTBV 2,5 HC/ 7-GF-5,08	1924570	50
	MSTBV 2,5 HC/ 8-GF-5,08	1924583	50
	MSTBV 2,5 HC/ 9-GF-5,08	1924596	50
	MSTBV 2,5 HC/10-GF-5,08	1924606	50
_	MSTBV 2,5 HC/11-GF-5,08	1924619	50
	MSTBV 2,5 HC/12-GF-5,08	1924622	50

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Headers with socket contact



- Inverted 16-A (HC) header with a socket contact for shock-proof applications or PCB-PCB connections
- Horizontal and vertical (ICV) designs
- Double steel spring as extra safety against contact corrosion
- Vibration-resistant connection with a threaded flange (-GF)
- HC header should be used only with HC connectors

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

Corresponding inverted HC plug components can be found starting from page 495.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST2,2x6,5 C or ISO 7049-ST2,2x6,5 C. Screw connection only permitted prior to soldering.

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

Please observe the derating curves and laboratory data sheets.
 Derating curves of further combination options on request.

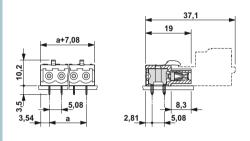


Horizontal

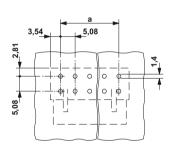
CB CB

Accessories			
For all types	Туре	Page	
*	Coding profile CP-MSTB Order No. 1734634	38	
MIN!	Test plug MPS	831	
Sel.	Reducing plug RPS Order No. 0201647	831	

Dimensional drawing



Drilling diagram



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	16¹)	
	320	
	5.08	
III/3	III/2	II / 2
320	320	630
4	4	4
В	С	D
250	-	300
16	-	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1.4	/ 1.2 x 0.5 r	nm

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
IC 2,5 HC/ 2-G-5,08	1943302	50	
IC 2,5 HC/ 3-G-5,08	1943315	50	
IC 2,5 HC/ 4-G-5,08	1943328	50	
IC 2,5 HC/ 5-G-5,08	1943331	50	
IC 2,5 HC/ 6-G-5,08	1943344	50	
IC 2,5 HC/ 7-G-5,08	1943360	50	
IC 2,5 HC/ 8-G-5,08	1943373	50	
IC 2,5 HC/ 9-G-5,08	1943386	50	
IC 2,5 HC/10-G-5,08	1943399	50	
IC 2,5 HC/11-G-5,08	1943409	50	
IC 2,5 HC/12-G-5,08	1943412	50	



Horizontal, with threaded flange



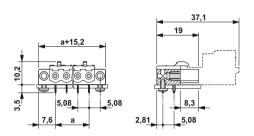
Vertical



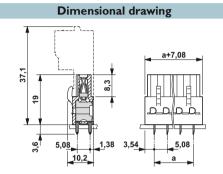
Vertical, with threaded flange

CB CB

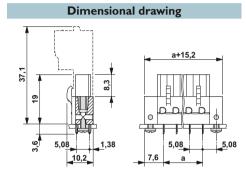
Dimensional drawing



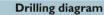
CBL us PC VDE CB



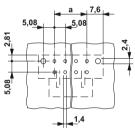
CB US CB



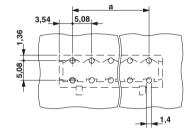
Drilling diagram



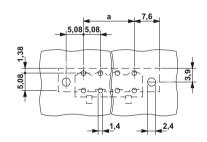
Drilling diagram







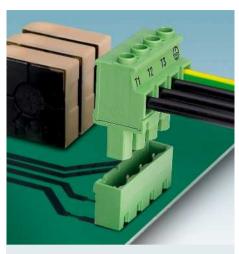
Ordering data					
Туре	Order No.	Pcs. / Pkt.			
5.08 mm pitch, color: green	5.08 mm pitch, color: green				
ICV 2,5 HC/ 2-G-5,08	1943535	50			
ICV 2,5 HC/ 3-G-5,08	1943548	50			
ICV 2,5 HC/ 4-G-5,08	1943551	50			
ICV 2,5 HC/ 5-G-5,08	1943564	50			
ICV 2,5 HC/ 6-G-5,08	1943577	50			
ICV 2,5 HC/ 7-G-5,08	1943580	50			
ICV 2,5 HC/ 8-G-5,08	1943593	50			
ICV 2,5 HC/ 9-G-5,08	1943603	50			
ICV 2,5 HC/10-G-5,08	1943616	50			
ICV 2,5 HC/11-G-5,08	1943629	50			
ICV 2,5 HC/12-G-5,08	1943632	50			



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
5.08 mm pitch, color: green			
ICV 2,5 HC/ 2-GF-5,08	1943645	50	
ICV 2,5 HC/ 3-GF-5,08	1943658	50	
ICV 2,5 HC/ 4-GF-5,08	1943661	50	
ICV 2,5 HC/ 5-GF-5,08	1943674	50	
ICV 2,5 HC/ 6-GF-5,08	1943687	50	
ICV 2,5 HC/ 7-GF-5,08	1943690	50	
ICV 2,5 HC/ 8-GF-5,08	1943700	50	
ICV 2,5 HC/ 9-GF-5,08	1943713	50	
ICV 2,5 HC/10-GF-5,08	1943726	50	
ICV 2,5 HC/11-GF-5,08	1943739	50	
ICV 2,5 HC/12-GF-5,08	1943742	50	

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Vertical plug-in connectors for 600 V UL



- High-capacity connectors for voltages of up to 1000 V as per IEC
- Plugs with unrestricted 600 V UL approval
- Plug-in direction vertical to the PCB
- GMVSTBR 2,5 HV...ST, conductor entry on the coding side of the plug, so conductor exit upward
- GMVSTBW 2,5 HV...ST, conductor entry on the rippled side of the plug, so conductor exit downward
- Compatible with the GMSTB 2,5/...-G-7,62 base strips, see page 342

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

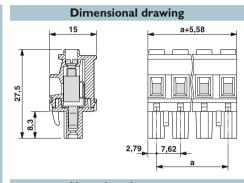
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Connection point facing the smooth wall of the header (R), 600 V UL approval

. FLL us



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories For all types Туре Page Coding profile CP-MSTB 38 1734634 Screwdriver SZS 0,6 x 3,5 Order No. 1205053 Marker cards 799 SK 7,62/3,8

No. o

Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	

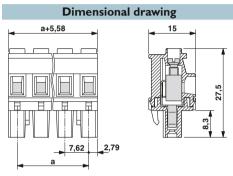
	12¹) / 2.5			
	630			
	7.62			
0.2 - 2.5	5/0.2-2.5/	24 - 12		
	0.25 - 2.5			
	0.25 - 2.5			
0.	2 - 1 / 0.2 - 1	.5		
	0.25 - 1			
	0.5 - 1			
III/3	III/2	II / 2		
500	630	1000		
6	6	6		
В	С	D		
600	600	-		
15	15	-		
30 - 12	30 - 12	-		
В	С	D		
	-	-		
	-	-		
-	-	-		
	7			
7				
	M3 0.5 - 0.6			
PA/I				
	V0			
	VO			

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	GMVSTBR 2,5 HV/ 2-ST-7,62	1774454	50
3	15.24	GMVSTBR 2,5 HV/ 3-ST-7,62	1993954	50
4	22.86	GMVSTBR 2,5 HV/ 4-ST-7,62	1774467	50



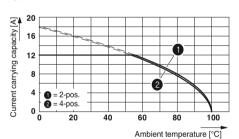
Connection point facing the rippled wall of the header (W), 600 V UL approval





Representative derating curve

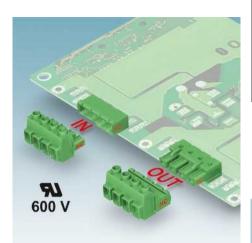
Type: GMVSTBR 2,5 HV/...-ST-7,62 with GMSTBA 2,5/...-G-7,62



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: green			
GMVSTBW 2,5 HV/ 2-ST-7,62	1771910	50	
GMVSTBW 2,5 HV/ 3-ST-7,62	1993967	50	
GMVSTBW 2,5 HV/ 4-ST-7,62	1927221	50	

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Plugs with screw connection for 600 V UL



- High-capacity within minimum space: current carrying capacity of 16 A in combination with an unrestricted 600-V-**UL** approval
- Compact 7.62 mm pitch
- GMSTB 2,5 HCV plugs should be used only with GMSTBA 2,5 HC base strips
- The double steel spring ensures additional safety, especially in case of temperature and capacity fluctuations
- The versions with Lock & Release levers lock the plug to the header and also serve as a release tool
- Inverted GIC 2,5 HCV plugs with pin contacts

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

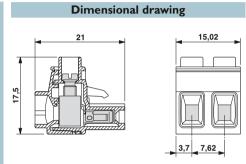
- 1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
- 2) Diverging UL data with GIC 2,5 HCV/...-ST-7,62: nominal cur-



With socket contact, 600 V UL approval

Accessories		
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
· /	Marker cards SK 7,62/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	





Note derating curves

Derating curves according to DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8 No. of positions: See diagram

Technical data	ı
Table in I date in a considerate to IFO / DINIV	DE
Technical data in accordance to IEC / DIN V Rated current / conductor cross section	
	[A] / [mm²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors w	ith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleep	ve [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation mater	ial group
Inflammability class according to UL 94	

	16¹) / 2.5		
-	1000		
	7.62		
0.2 - 2.5	5 / 0.2 - 2.5 /	24 - 12	
	0.25 - 2.5		
	0.25 - 2.5		
0.	2 - 1 / 0.2 - 1	.5	
	0.25 - 1		
	0.5 - 1		
III/3	III/2	II / 2	
1000	1000	1000	
8	8	8	
В	С	D	
600	600	-	
18.5 ²)	18.5	-	
30 - 12	30 - 12	-	
В	С	D	
	-	-	
-	-	-	
-	-	-	
	8		
	М3		
	0.5 - 0.6		
	PA/I		
	V0		

		Or
		Туре
No. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: gr
2	7.62	GMSTB 2,5 HCV/ 2-ST-7
3	15.24	GMSTB 2,5 HCV/ 3-ST-7
4	22.86	GMSTB 2,5 HCV/ 4-ST-7
5	30.48	GMSTB 2,5 HCV/ 5-ST-7
6	38.10	GMSTB 2,5 HCV/ 6-ST-7
7	45.72	GMSTB 2,5 HCV/ 7-ST-7
8	53.34	GMSTB 2,5 HCV/ 8-ST-7
9	60.96	GMSTB 2,5 HCV/ 9-ST-7
10	68.58	GMSTB 2,5 HCV/10-ST-7
11	76.20	GMSTB 2,5 HCV/11-ST-7
12	83.82	GMSTB 2,5 HCV/12-ST-7

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 7.62 mm, color: green				
GMSTB 2,5 HCV/ 2-ST-7,62	1714278	50		
GMSTB 2,5 HCV/ 3-ST-7,62	1714281	50		
GMSTB 2,5 HCV/ 4-ST-7,62	1714294	50		
GMSTB 2,5 HCV/ 5-ST-7,62	1714304	50		
GMSTB 2,5 HCV/ 6-ST-7,62	1714317	50		
GMSTB 2,5 HCV/ 7-ST-7,62	1714320	50		
GMSTB 2,5 HCV/ 8-ST-7,62	1714333	50		
GMSTB 2,5 HCV/ 9-ST-7,62	1714346	50		
GMSTB 2,5 HCV/10-ST-7,62	1714359	50		
GMSTB 2,5 HCV/11-ST-7,62	1714362	50		
GMSTB 2,5 HCV/12-ST-7,62	1714375	50		







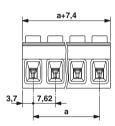
Inverted with pin contact, 600 V UL approval

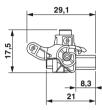
91 US 🕑



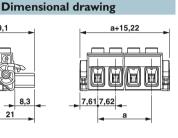
Lock & Release locking, with socket contact, 600 V UL approval

Dimensional drawing



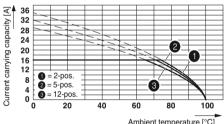


PLus 🕑



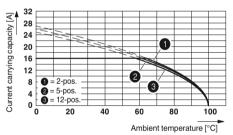
Representative derating curves of the above-mentioned plugs

Type: GMSTB 2,5 HCV/...-ST-7,62 with GMSTBA 2,5 HC/...-G-7,62





Type_ GIC 2.5HCV/...-ST-7.62 with GIC 2.5HC/...-G-7.62

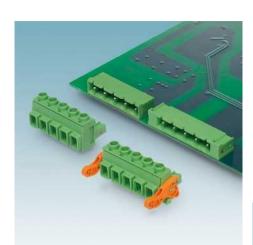


Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GIC 2,5 HCV/ 2-ST-7,62	1745629	50
GIC 2,5 HCV/ 3-ST-7,62	1745632	50
GIC 2,5 HCV/ 4-ST-7,62	1745645	50
GIC 2,5 HCV/ 5-ST-7,62	1745658	50
GIC 2,5 HCV/ 6-ST-7,62	1745661	50
GIC 2,5 HCV/ 7-ST-7,62	1745674	50
GIC 2,5 HCV/ 8-ST-7,62	1745687	50
GIC 2,5 HCV/ 9-ST-7,62	1745690	50
GIC 2,5 HCV/10-ST-7,62	1745700	50
GIC 2,5 HCV/11-ST-7,62	1745713	50
GIC 2,5 HCV/12-ST-7,62	1745726	50

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GMSTB 2,5 HCV/ 2-ST-7,62-LR	1812759	50
GMSTB 2,5 HCV/ 3-ST-7,62-LR	1812762	50
GMSTB 2,5 HCV/ 4-ST-7,62-LR	1812775	50
GMSTB 2,5 HCV/ 5-ST-7,62-LR	1812788	50
GMSTB 2,5 HCV/ 6-ST-7,62-LR	1812791	50
GMSTB 2,5 HCV/ 7-ST-7,62-LR	1812801	50
GMSTB 2,5 HCV/ 8-ST-7,62-LR	1812814	50
GMSTB 2,5 HCV/10-ST-7,62-LR	1812830	50
GMSTB 2,5 HCV/10-ST-7,62-LR	1812830	50
GMSTB 2,5 HCV/11-ST-7,62-LR	1812843	50
GMSTB 2,5 HCV/12-ST-7,62-LR	1812856	50

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Headers with pin contact



- GMSTB 2,5 HC headers for combination with GMSTB 2,5 HCV plugs
- Compact 7.62 mm pitch
- CR-MSTB coding sections as protection against mismating
- Lock & Release versions lock the plug to the header and also serve as a release tool

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

COMBICON select

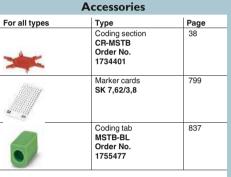
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

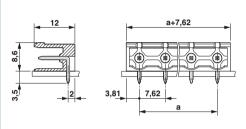


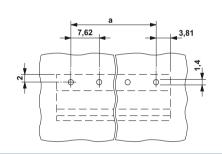
Horizontal

P) 20 /P2



Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
·	

	16¹)	
	630	
	7.62	
III/3	III/2	11/2
500	630	1000
6	6	6
В	С	D
300	-	300
18.5	-	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.4/1x1m	m

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: green			
GMSTBA 2,5 HC/ 2-G-7,62	1728853	50	
GMSTBA 2,5 HC/ 3-G-7,62	1728866	50	
GMSTBA 2,5 HC/ 4-G-7,62	1728879	50	
GMSTBA 2,5 HC/ 5-G-7,62	1728882	50	
GMSTBA 2,5 HC/ 6-G-7,62	1728895	50	
GMSTBA 2,5 HC/ 7-G-7,62	1728905	50	
GMSTBA 2,5 HC/ 8-G-7,62	1728918	50	
GMSTBA 2,5 HC/ 9-G-7,62	1728921	50	
GMSTBA 2,5 HC/10-G-7,62	1728934	50	
GMSTBA 2,5 HC/11-G-7,62	1728947	50	
GMSTBA 2,5 HC/12-G-7,62	1728950	50	

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm











Lock & Release locking, horizontal

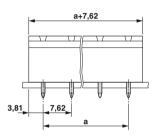


Lock & Release locking, vertical

Dimensional drawing

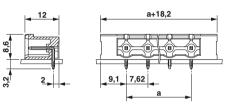
Dimensional drawing

D 20 LP2

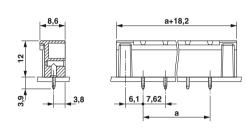


Dimensional drawing

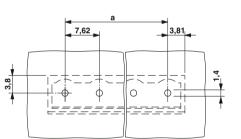
c**91**0s

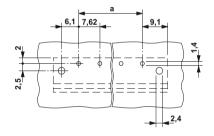


c**91**0s

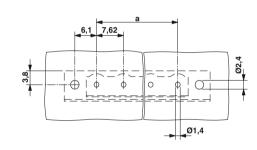


Drilling diagram





Dr	illing	diagram



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: green			
GMSTBVA 2,5 HC/ 2-G-7,62	1792397	50	
GMSTBVA 2,5 HC/ 3-G-7,62	1767979	50	
GMSTBVA 2,5 HC/ 4-G-7,62	1758179	50	
GMSTBVA 2,5 HC/ 5-G-7,62	1773455	50	
GMSTBVA 2,5 HC/ 6-G-7,62	1767050	50	
GMSTBVA 2,5 HC/ 7-G-7,62	1792407	50	
GMSTBVA 2,5 HC/ 8-G-7,62	1792410	50	
GMSTBVA 2,5 HC/ 9-G-7,62	1792423	50	
GMSTBVA 2,5 HC/10-G-7,62	1792436	50	
GMSTBVA 2,5 HC/11-G-7,62	1792449	50	
GMSTBVA 2,5 HC/12-G-7,62	1792452	50	

Ordering da		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GMSTBA 2,5 HC/ 2-G-7,62-LR	1812869	50
GMSTBA 2,5 HC/ 3-G-7,62-LR	1812872	50
GMSTBA 2,5 HC/ 4-G-7,62-LR	1812885	50
GMSTBA 2,5 HC/ 5-G-7,62-LR	1812898	50
GMSTBA 2,5 HC/ 6-G-7,62-LR	1812908	50
GMSTBA 2,5 HC/ 7-G-7,62-LR	1812911	50
GMSTBA 2,5 HC/ 8-G-7,62-LR	1812924	50
GMSTBA 2,5 HC/ 9-G-7,62-LR	1812937	50
GMSTBA 2,5 HC/10-G-7,62-LR	1812940	50
GMSTBA 2,5 HC/11-G-7,62-LR	1812953	50
GMSTBA 2,5 HC/12-G-7,62-LR	1812966	50

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
GMSTBVA 2,5 HC/ 2-G-7,62-LR	1812979	50
GMSTBVA 2,5 HC/ 3-G-7,62-LR	1812982	50
GMSTBVA 2,5 HC/ 4-G-7,62-LR	1812995	50
GMSTBVA 2,5 HC/ 5-G-7,62-LR	1813004	50
GMSTBVA 2,5 HC/ 6-G-7,62-LR	1813017	50
GMSTBVA 2,5 HC/ 7-G-7,62-LR	1813020	50
GMSTBVA 2,5 HC/ 8-G-7,62-LR	1813033	50
GMSTBVA 2,5 HC/ 9-G-7,62-LR	1813046	50
GMSTBVA 2,5 HC/10-G-7,62-LR	1813059	50
GMSTBVA 2,5 HC/11-G-7,62-LR	1813062	50
GMSTBVA 2,5 HC/12-G-7,62-LR	1813075	50

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

Headers with socket contact



- Inverted GIC 2,5 HC headers with socket contacts for touch-proof device outputs (with GIC 2,5 HCV/... -ST) or a PCB-PCB connection (with GMSTBA 2,5 HC/... -G)
- Maximum contact safety, thanks to an integrated double steel spring
- Coding profile CP-MSTB as protection against mismatching
- Compact 7.62 mm pitch

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



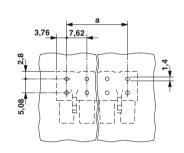
Horizontal

Accessories		
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
	Marker cards SK 7,62/3,8	799
Set .	Reducing plug RPS Order No. 0201647	831
M _M	Test plug MPS	831



a+7,62 10,2

Dimensional drawing



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	16¹)	
	630	
	7.62	
III/3	III/2	II / 2
630	630	1000
6	6	6
В	С	D
250	-	300
16	-	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.4 / 1.2 x 0.	5

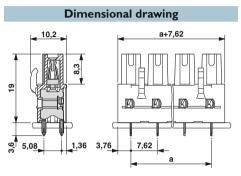
No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

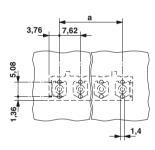
Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 7.62 mm, color: green				
GIC 2,5 HC/ 2-G-7,62	1745784	50		
GIC 2,5 HC/ 3-G-7,62	1745797	50		
GIC 2,5 HC/ 4-G-7,62	1745807	50		
GIC 2,5 HC/ 5-G-7,62	1745810	50		
GIC 2,5 HC/ 6-G-7,62	1745823	50		
GIC 2,5 HC/ 7-G-7,62	1745836	50		
GIC 2,5 HC/ 8-G-7,62	1745849	50		
GIC 2,5 HC/ 9-G-7,62	1745852	50		
GIC 2,5 HC/10-G-7,62	1745865	50		
GIC 2,5 HC/11-G-7,62	1745878	50		
GIC 2,5 HC/12-G-7,62	1745881	50		



Vertical







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 7.62 mm, color: green				
GICV 2,5 HC/ 2-G-7,62	1756485	50		
GICV 2,5 HC/ 3-G-7,62	1756498	50		
GICV 2,5 HC/ 4-G-7,62	1756508	50		
GICV 2,5 HC/ 5-G-7,62	1756511	50		
GICV 2,5 HC/ 6-G-7,62	1756524	50		
GICV 2,5 HC/ 7-G-7,62	1756537	50		
GICV 2,5 HC/ 8-G-7,62	1756540	50		
GICV 2,5 HC/ 9-G-7,62	1756553	50		
GICV 2,5 HC/10-G-7,62	1756566	50		
GICV 2,5 HC/11-G-7,62	1756579	50		
GICV 2,5 HC/12-G-7,62	1756582	50		

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

ME/ME MAX plug-in connectors/headers, 7.62 mm pitch



- Suitable for ME/ME MAX electronic housing
- 7.25 mm pitch for unlimited 600 V UL approval
- Orthogonal screw/plug-in connection
- 2 and 3 positions suitable for 17.5/35 mm and 22.5/45 mm housing width

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

GMSTBT 2,5 HV/...-ST-7,25 GY7035 No. of pos. Dimension b [mm]

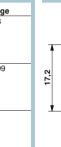
19.95

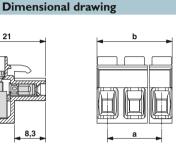
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Suitable for GMSTBO 2,5 HV... headers, highcurrent-compatible

c**91**us





Representative derating curve

8,3

Accessories		
For all types	Туре	Page
*	Coding profile CP-MSTB Order No. 1734634	38
in 2	Marker cards SK 7,5/3,8	799
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [n	nm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the	ne same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material g	group
Inflammability class according to UL 94	

	161) / 2.5	
	1000	
•	7.25	
0.2 - 2.	5 / 0.2 - 2.5 /	24 - 12
	0.25 - 2.5	
	0.25 - 2.5	
0.	1 - 1 / 0.2 - 1	.5
	0.25 - 1	
	0.5 - 1	
	0.0 1	
III/3	III/2	II/2
1000	1000	1000
8	8	8
В	C	D
600	600	-
16	16	
24 - 12	24 - 12	
B	C C	D
-	-	-
-	-	-
	8	
	M3	
-	0.5 - 0.6	
	PA/I	
	V0	
	VU	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch: 7.25 mm, color: light gray		
2	7.25	GMSTBT 2,5 HV/2-ST-7,25 GY7035	2199757	50
3	14.50	GMSTBT 2,5 HV/3-ST-7,25 GY7035	2199553	50

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm

ME/ME MAX plug-in connectors/headers, 7.62 mm pitch



- Suitable for ME/ME MAX electronic
- 7.25 mm pitch for unlimited 600 V UL approval
- Orthogonal screw/plug-in connection
- THR solderable
- 2 and 3 positions suitable for 17.5/35 mm and 22.5/45 mm housing width
- "Left" and "right" design
- Delivery form: box packaging bulk material or tape-on-reel packing for automated mounting



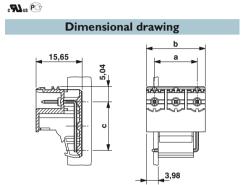


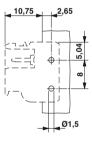
Header with "left" pin strip leading off at a right angle, box packaging

Accessories		
For all types	Туре	Page
*	Coding section CR-MSTBO G1 Order No. 2199618	38
a 2	Marker cards SK 7,5/3,8	799

No. of pos.

Dim. a [mm] 7.25 14.50





Technical data	
T	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V
Pitch	[mm
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm

	16¹)			
	630			
	-			
III/3	III/2	11/2		
400	630	630		
6	6	6		
В	С	D		
300	150	300		
16	16	10		
-	-	-		
В	С	D		
_	-	-		
_	-	-		
-	-	-		
LCP / IIIa				
	V0			
1.5 / 1.0 x 1.0 mm				

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch: 7.25 mm, color: black			
GMSTBO 2,5 HV/ 2-GL-7,25 THR	2199867	50	
GMSTBO 2,5 HV/ 3-GL-7,25 THR	2199663	50	

HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm



Header with "right" pin strip leading off at a right angle, box packaging

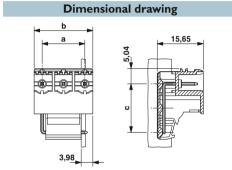


Header with "left" pin strip leading off at a right angle, tape-on-reel packing

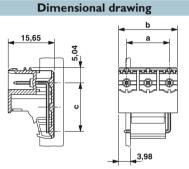


Header with "right" pin strip leading off at a right angle, tape-on-reel packing

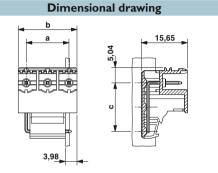




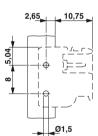
PLus 🕑



PLus 🕑

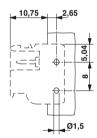


Drilling diagram



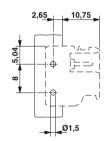
Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch: 7.25 mm, color: black				
GMSTBO 2,5 HV/ 2-GR-7,25 THR	2199760	50		
GMSTBO 2,5 HV/ 3-GR-7,25 THR	2199566	50		

Drilling diagram



Ordering data			
Туре	Order No.	Pcs. / Pkt	
Pitch: 7.25 mm, color: black			
GMSTBO 2,5 HV/ 2-GL-7,25THRR32	2279703	110	
GMSTBO 2,5 HV/3-GL-7,25 THRR44	2200263	70	

Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch: 7.25 mm, color: black				
GMSTBO 2,5 HV/ 2-GR-7,25THRR32	2279606	110		
GMSTBO 2,5 HV/3-GR-7,25 THRR44	2200262	70		

Plugs with screw and crimp connection



- High-capacity plugs with a current carrying capacity of 20 A
- Screw connection up to 4 mm², strand-
- Integrated double steel spring as extra safety against contact corrosion
- Available with 2 to 12-pos.
- Vibration-resistant connection with a screw flange (PC 4/...-STF-7,62)
- Plug components can be coded using the CP-PC RD coding profiles

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

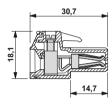
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

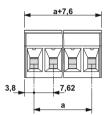


Without screw flange

® ± ⊕ 2.42, ®

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 4 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories For all types Page Coding profile 38 1701967 Marker cards 799 SK 7,62/3,8 Screwdriver SZS 0,6 x 3,5 Order No. 1205053

Technical data	
T 1 1 1 1 1 1 1 1 1	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with t	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Type of inodiation material, modiation material	group

	201) / 4	
	630	
	7.62	
0.2 - 4	1/0.2-4/2	24 - 10
	0.25 - 4	
	0.25 - 4	
0.2	- 2.5 / 0.2 -	1.5
	0.25 - 1.5	
	0.5 - 2.5	
III/3	III/2	11/2
400	630	1000
6	6	6
В	С	D
300	300	600
20	20	5
30 - 10	30 - 10	30 - 10
В	С	D
300	300	-
20	20	-
28 - 10	28 - 10	-
	7	
	М3	
	0.5 - 0.6	
	PA/I	
	V0	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	PC 4/ 2-ST-7,62	1804904	50
3	15.24	PC 4/ 3-ST-7,62	1804917	50
4	22.86	PC 4/ 4-ST-7,62	1804920	50
5	30.48	PC 4/ 5-ST-7,62	1804933	50
6	38.10	PC 4/ 6-ST-7,62	1804946	50
7	45.72	PC 4/ 7-ST-7,62	1804959	50
8	53.34	PC 4/ 8-ST-7,62	1804962	50
9	60.96	PC 4/ 9-ST-7,62	1804975	50
10	68.58	PC 4/10-ST-7,62	1804988	50
11	76.20	PC 4/11-ST-7,62	1804991	50
12	83.82	PC 4/12-ST-7,62	1805000	50

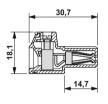


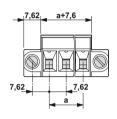


With screw flange

(1) A77 n2 (2) A78 (3)

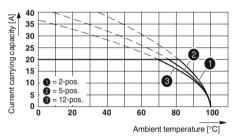
Dimensional drawing





Representative derating curve

Type: PC 4/..-ST-7,62 with PC 4/..-G-7,62



Note on PC 4 HV/...ST-7,62

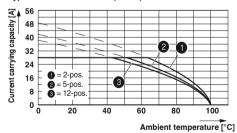
As part of ongoing product improvements, the PC 4 HV plug-in connector range has been withdrawn.

A replacement is available in the form of the PC 5-ST1 plug-in connector. This connector offers the same space but even better performance data. This plug-in connector is available in the same version options and can be found from catalog page 524.

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: green			
PC 4/ 2-STF-7,62	1828249	50	
PC 4/ 3-STF-7,62	1828252	50	
PC 4/ 4-STF-7,62	1828265	50	
PC 4/ 5-STF-7,62	1828278	50	
PC 4/ 6-STF-7,62	1828281	50	
PC 4/ 7-STF-7,62	1828294	50	
PC 4/ 8-STF-7,62	1828304	50	
PC 4/ 9-STF-7,62	1828317	50	
PC 4/10-STF-7,62	1828320	50	
PC 4/11-STF-7,62	1828333	50	
PC 4/12-STF-7,62	1827583	50	

Representative derating curve

Type: PC 5-ST1 with PC 4-G (4 mm²)



Plugs with screw and crimp connection



- Low height of the PCC 4 series
- Plug-in direction parallel to the conductor axis
- Latching option for pull-out aid
- Compatible with PC 4 headers for PCB and PCVK 4- and UPCV3K headers for DIN rail mounting
- Crimp contacts available loose and on tape

STG-MTN 0,5-1,0

- for conductor cross sections from 0.5 to 1.0 mm² (AWG 20-18)

STG-MTN 1,5-2,5

- for conductor cross sections from 1.5 to 2.5 mm² (16-14 AWG)

Technical data

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

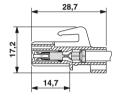
Accessories

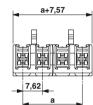


Plugs for crimp contacts

D a. 12. D

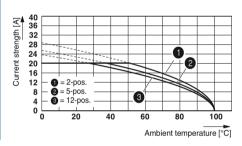
Dimensional drawing





Representative derating curve

Type: PCC 4/...-ST-7,62 with PC 4/...-G-7,62



For all types	Туре	Page
	Module socket con- tact, 0.5 to 2.5 mm ² STG-MTN	827
A	Crimping pliers for 0.5 to 2.5 mm ² CRIMPFOX MT 2,5 Order No. 1204038	
1	Contact removal tool STG-EW Order No. 3190441	
3	Pullout aid STZPCC 4-7,62	828
*	Coding profile CP-HCC 4 Order No. 1600027	38
a s	Marker cards SK 7,62/3,8	799

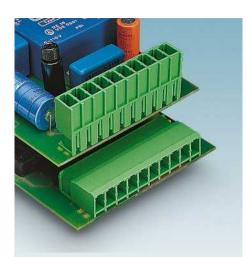
recilifical data	
Technical data in accordance to IEC / DIN VI	DE
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	e [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	-

	201) / 4	
	1000	
	7.62	
-/0	.5 - 2.5 / 20	- 14
	-	
	-	
	-/-	
	-	
	-	
III/3	III/2	II / 2
400	1000	1000
8	8	8
В	С	D
600	600	-
10	10	-
20 - 14	20 - 14	-
В	С	D
300	300	-
10	10	-
20 - 14	20 - 14	-
	PA/I	
	V0	

		Ordering date	ta	
		Туре	Order No.	Pcs. / Pkt.
lo. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	PCC 4/ 2-ST-7,62	1840191	50
3	15.24	PCC 4/ 3-ST-7,62	1840188	50
4	22.86	PCC 4/ 4-ST-7,62	1840175	50
5	30.48	PCC 4/ 5-ST-7,62	1840162	50
6	38.10	PCC 4/ 6-ST-7,62	1840159	50
7	45.72	PCC 4/ 7-ST-7,62	1840146	50
8	53.34	PCC 4/ 8-ST-7,62	1840133	50
9	60.96	PCC 4/ 9-ST-7,62	1840120	50
10	68.58	PCC 4/10-ST-7,62	1840117	50
11	76.20	PCC 4/11-ST-7,62	1840104	50
12	83.82	PCC 4/12-ST-7,62	1840094	50

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

Headers with pin contact



- PC 4 headers for use in combination with all PC 4 plugs
- Horizontal and vertical (PCV) versions available with 2 to 12-pos.
- Vibration-resistant connection with separate mounting flange BF-PC 4 (also for screw connection in the device)
- Shroud PCB-SHIELD for a professional EMC shield connection
- CP-PC RD coding profile as protection against mismating

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

Mounting screw for PC(V) 4-G-7,62 with BF-PC 4: sheet metal screw ISO 1481-ST 2,9x9,5 C. Screw connection only permitted prior to soldering.

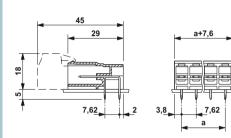
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) Insulation material/insulation material class for the 10-, 11- and 12-pos. versions: PBT/IIIa

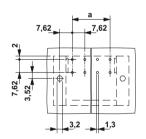


Horizontal

Dimensional drawing



Drilling diagram



A	Accessories			
For all types	Туре	Page		
	Mounting flange for lateral snapping on BF-PC 4 Order No. 1827570			
*	Coding profile CP-PC RD Order No. 1701967	38		
• ./	Marker cards SK 7,62/3,8	799		
Only for PC 4/G-7,62				
al	Shroud POWER COMBICON PCB-SHIELD			

1968387

Jilly 101 FC 4/G-1,02	
Acc.	Shroud
	POWER
Smilla	PCB-SH
2 2	Order No
8112	1968387

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	201)	
	630	
	7.62	
	7.02	
III/3	III/2	II/2
400	630	630
6	6	6
В	С	D
300	300	-
20	20	-
-	-	-
В	С	D
300	300	-
20	20	-
-	-	-
	PA / I ²)	
	V0	
1.3	3 / 1 x 0.8 m	nm

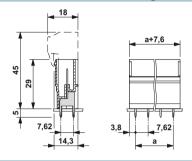
		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
lo. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	PC 4/ 2-G-7,62	1804797	50
3	15.24	PC 4/ 3-G-7,62	1804807	50
4	22.86	PC 4/ 4-G-7,62	1804810	50
5	30.48	PC 4/ 5-G-7,62	1804823	50
6	38.10	PC 4/ 6-G-7,62	1804836	50
7	45.72	PC 4/ 7-G-7,62	1804849	50
8	53.34	PC 4/ 8-G-7,62	1804852	50
9	60.96	PC 4/ 9-G-7,62	1804865	50
10	68.58	PC 4/10-G-7,62	1804878	50
11	76.20	PC 4/11-G-7,62	1804881	50
12	83.82	PC 4/12-G-7,62	1804894	50

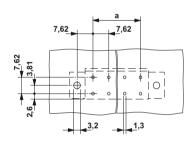


Vertical

② .71. 15 € • **2. 16. 18 18**

Dimensional drawing

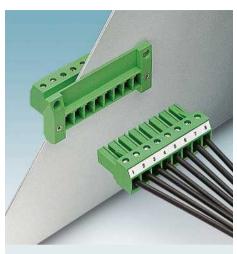




Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
PCV 4/ 2-G-7,62	1804687	50
PCV 4/ 3-G-7,62	1804690	50
PCV 4/ 4-G-7,62	1804700	50
PCV 4/ 5-G-7,62	1804713	50
PCV 4/ 6-G-7,62	1804726	50
PCV 4/ 7-G-7,62	1804739	50
PCV 4/ 8-G-7,62	1804742	50
PCV 4/ 9-G-7,62	1804755	50
PCV 4/10-G-7,62	1804768	50
PCV 4/11-G-7,62	1804771	50
PCV 4/12-G-7,62	1804784	50

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

Feed-through header with a pin con-



- Feed-through connectors for wall thicknesses from 1 to 5 mm
- Can be plugged onto PC 4 and PC 5 connectors
- A screw connection on the inside of the device
- Lateral mounting flange (screw set, refer to accessories)
- Can be mounted either from outside or pre-wired and mounted from inside

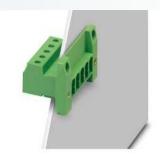
No. of positions: See diagram

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

The cutout dimensions for the feed-through versions can be found on page 595.

Derating curves according to DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 4 mm² Reduction factor = 0.8

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

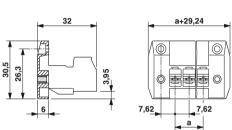


With screw connection on the inside of the device

③ 21. us **② ■ (1.** Hayda

Accessories For all types Туре Page One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263 Coding profile CP-PC RD 38 Order No. 1701967 Marker cards 799 SK 7.62/3.8 Screwdriver SZS 0,6 x 3,5 Order No.

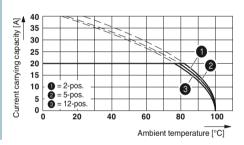
1205053



Dimensional drawing

Representative derating curve

Type: PC 4/...-ST-7,62 with DFK-PC 4/...-GF-7,62

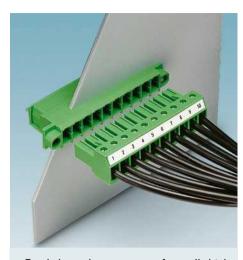


Technical data	
	_
Technical data in accordance to IEC / DIN VD	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	h the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	·

	201) / 4	
	630	
	7.62	
0.2 - 4	/ 0.2 - 4 / 2	24 - 10
	0.25 - 4	
	0.25 - 4	
0.0	0.5./0.0	0.5
0.2	- 2.5 / 0.2 -	2.5
	0.2 - 1.5	
	0.5 - 2.5	
III / O	III/2	11.70
III / 3 400	630	II / 2 1000
6	6	6
В	C	D
300	300	600
35	35	5
30 - 10	30 - 10	30 - 10
В	C	D
300	300	-
20	20	-
28 - 10	28 - 10	-
	7	
	МЗ	
	0.5 - 0.6	
	PA/I	
	V0	-

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	DFK-PC 4/ 2-GF-7,62	1840557	50
3	15.24	DFK-PC 4/ 3-GF-7,62	1840560	50
4	22.86	DFK-PC 4/ 4-GF-7,62	1840573	50
5	30.48	DFK-PC 4/ 5-GF-7,62	1840586	50
6	38.10	DFK-PC 4/ 6-GF-7,62	1840599	50
7	45.72	DFK-PC 4/ 7-GF-7,62	1840609	50
8	53.34	DFK-PC 4/ 8-GF-7,62	1840612	50
9	60.96	DFK-PC 4/ 9-GF-7,62	1840625	50
10	68.58	DFK-PC 4/10-GF-7,62	1840638	50
11	76.20	DFK-PC 4/11-GF-7,62	1840641	50
12	83.82	DFK-PC 4/12-GF-7,62	1840654	50

Feed-through header with a pin con-



- Feed-through connectors for wall thicknesses from 1 to 5 mm
- Can be plugged onto PC 4 and PC 5 connectors
- Slip-on connection on the inside of the device (solder connection on request)
- Lateral mounting flange (screw set, refer to accessories)

Notes:

COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

The cutout dimensions for the feed-through versions can be found on page 595.

Derating curves according to DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 2.5 mm² Reduction factor = 0.8

No. of positions: See diagram

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



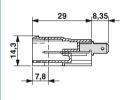
With slip-on connection on the inside of the device

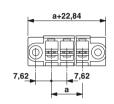
Accessories For all types Туре Page One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263 Coding profile CP-PC RD 38 Order No. 1701967 Marker cards 799 SK 7.62/3.8 Screwdriver SZS 0,6 x 3,5 Order No.

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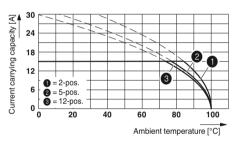
Dimensional drawing





Representative derating curve

Type: PC 4/..-ST-7,62 with DFK-PC 4/..-G-7,62-FS4,8



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Slip-on connection (DIN 46249-1)	[A]/[mm]

	15 ¹) / 4	
	400	
	7.62	
III/3	III/2	II / 2
400	400	800
6	6	6
В	С	D
300	300	-
20	20	-
-	-	-
В	С	D
300	300	-
20	20	-
-	-	-
	PA/I	
	V2	
-/	4.8 x 0.8 m	nm

No. of pos. Dim. a [mm] 2 7.62 3 15.24
[mm] 2 7.62
3 15.24
4 22.86
5 30.48
6 38.10
7 45.72
8 53.34
9 60.96
10 68.58
11 76.20
12 83.82

Ordering data			
Туре	Order No.	Pcs. / Pkt	
Pitch 7.62 mm, color: green			
DFK-PC 4/ 2-G-7,62-FS4,8	1861154	50	
DFK-PC 4/ 3-G-7,62-FS4,8	1861167	50	
DFK-PC 4/ 4-G-7,62-FS4,8	1861170	50	
DFK-PC 4/ 5-G-7,62-FS4,8	1861183	50	
DFK-PC 4/ 6-G-7,62-FS4,8	1861196	50	
DFK-PC 4/ 7-G-7,62-FS4,8	1861206	50	
DFK-PC 4/ 8-G-7,62-FS4,8	1861219	50	
DFK-PC 4/ 9-G-7,62-FS4,8	1861222	50	
DFK-PC 4/10-G-7,62-FS4,8	1861235	50	
DFK-PC 4/11-G-7,62-FS4,8	1861248	50	
DFK-PC 4/12-G-7,62-FS4,8	1861251	50	

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

Headers with pin contact for DIN rail mounting



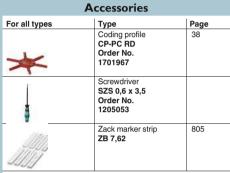
- PCVK 4 and UPCV3K 4 establish the pluggable connection between the electronics and the control cabinet
- For mounting on NS 35/... and NS 15... DIN rail according to EN 60715 - or for the UPCV3K 4-G-7,62 – for mounting on NS 35/... and NS 32 DIN rail
- Can be plugged onto PC 4 and PC 5 plug
- Vibration-resistant connection with flange terminal blocks that can be aligned (-F)
- UPCV3K provides three connector outputs for each terminal point

Notes:

COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

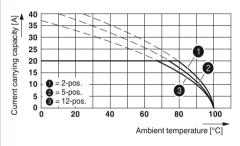
For DIN rails, see Catalog 5.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Representative derating curve

Type: PC 4/...-ST-7,62 with PCVK 4-7,62 DIN EN 61984 (VDE 0627):2002-09 Thermal test group C Derating curve, representation based on DIN EN 60512-5-2:2003-01 connected conductor cross section = 4 mm² Reduction factor = 0.8 No. of positions: See diagram



Technical dat	a
Technical data in accordance to IEC / DIN \	/DF
Bated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree	
Pitch	[mm]
Connection capacity	[111111]
Solid / stranded	[mm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	
Stranded with ferrules without plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors v	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	
Stranded with TWIN ferrule with plastic slee	
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation mate	rial group
Inflammability class according to UL 94	

	PCVK 4-7,62			PC	VK 4-7,62-	PE	UPC	V3K 4-G-	7,62
_		201) / 4			201) / 4			201) / 4	
]		630			630			1000	
		= 00			= 00				
J		7.62			7.62		7.62		
	0.0	1/0.2-4/2	14 10	0.0	1/0.2-4/2	14 10	0.2 - 4 / 0.2 - 4 / 24 - 10		
1	0.2 - 4	0.25 - 4	24 - 12	0.2 - 2	0.25 - 4	24 - 12	0.2 - 4	0.25 - 4	24 - 10
1		0.25 - 4			0.25 - 4			0.25 - 4	
J	0.25 - 4				0.23 - 4			0.23 - 4	
1	0.25	- 2.5 / 0.25	-25	0.25	- 2.5 / 0.25	-25	0.25 - 2.5 / 0.25 - 2.5		
1	0.20	0.25 - 1.5		0.20	0.25 - 1.5		0.25 - 1.5		
ì		0.5 - 2.5		-	0.5 - 2.5		0.5 - 2.5		
	III/3	III/2	II / 2	III/3	III/2	II / 2	III/3	III/2	11/2
]	500	630	1000	500	630	1000	800	1000	1000
]	6	6	6	6	6	6	8	8	8
)	В	С	D	В	С	D	В	С	D
]_	300	300	600		-	-	300	300	600
_	20	20	5		-	-	20	20	5
ì	30 - 10	30 - 10	30 - 10	-	-	-	30 - 10	30 - 10	30 - 10
)	В	С	D	В	С	D	В	С	D
_	300	300	-		-	-		-	-
]_	20	20	-	20	20			-	-
ì	28 - 10	28 - 10	-	-	-	-	-	-	-
,									
_		10 M3		10			10 M3		
-		0.5 - 0.6		M3					
Ī		PA/I		0.5 - 0.6		0.5 - 0.6			
-		V0		PA / I V0		PA / I V0			
-					VU			V U	

No. of pos.
1
1
1
1

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm



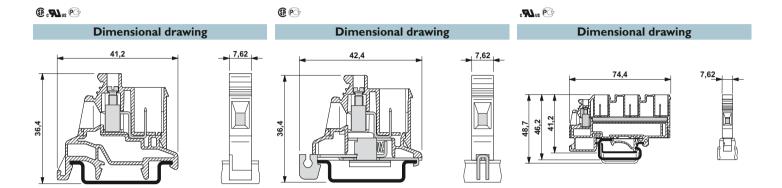




Single terminal block as protective conductor



Single terminal block with 3 plug entries



Ordering data			Ordering data		Ordering data			
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green								
PCVK 4-7,62	1849998	50						
Flange cover, fitted on the left and right of PCVK 4-7,62 for re- liable screw connection of plugs with screw flanges, pitch: 7.62 mm, color: green								
PCVK 4-7,62-F	1850000	50						
			Pitch 7.62 mm, color: green-yellow					
			PCVK 4-7,62-PE	1876246	50			
						Terminal block, with three vertical COMBICON (Power) c nectors/exits, for mounting on NS 32 or NS 35		ver) con-
						UPCV3K 4-G-7,62	1838381	50
						Flange cover, fitted on the left and right of UPCV3K 4-G-7,6 for reliable screw connection with the plugs with screw flates		
						UPCV3K-F	1881202	50

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm

Cable housing for PC 4 plug-in connectors



- Ergonomical cable housing for the standard PC 4 connectors with a screw con-
- 3 to 5-pos. and 6 to 12-pos. housing versions are available with and without a mounting flange (-F)
- KGG-PC 4 for cable diameters from 4 to 13.5 mm²
- KGS-PC 4 (angled cable outlet) for cable diameters from 6 to 16 mm²
- A cable clamp can be mounted back to front

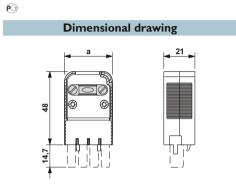
Notes:

COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.



3-5 positions, with straight cable connection





Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	$[A] / [mm^2]$		-/-	
Rated insulation voltage for pollution degree 2	[V]		-	
		-		
Pitch	[mm]		0	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group			ABS/0	
Inflammability class according to UL 94			HB	

		Ordering data				
		Туре	Order No.	Pcs. / Pkt.		
No. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green				
3	24.66	KGG-PC 4/3	1837227	10		
4	32.28	KGG-PC 4/ 4	1837230	10		
5	39.90	KGG-PC 4/5	1837243	10		
6	47.52					
7	55.14					
8	62.76					
9	70.38					
10	78.00					
11	85.62					
12	93.24					
6	47.52					
7	55.14					
8	62.76					
9	70.98					
10	78.00					
11	85.62					
12	93.24					

PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm



3-15 positions, with straight cable outlet and screw flange

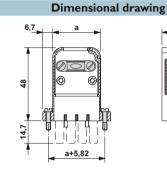


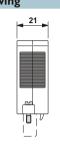
6-12 positions, with angled cable connection

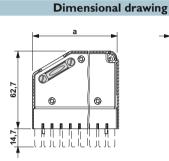


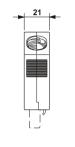
6-12 positions, with angled cable connection and screw flange

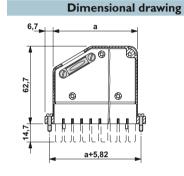


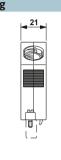










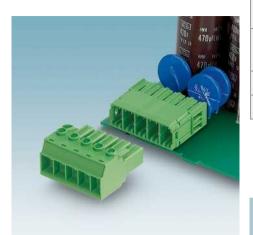


Ordering data						
Туре	Order No.	Pcs. / Pkt				
Pitch 7.62 mm, color: green						
KGG-PC 4/ 3-F	1837324	10				
KGG-PC 4/ 4-F	1837337	10				
KGG-PC 4/ 5-F	1837340	10				

Ordering data						
Туре	Order No. Pcs. / Pl					
Pitch 7.62 mm, color: green						
KGS-PC 4/ 6	1837256	10				
KGS-PC 4/ 7	1837269	10				
KGS-PC 4/ 8	1837272	10				
KGS-PC 4/ 9	1837285	10				
KGS-PC 4/10	1837298	10				
KGS-PC 4/11	1837308	10				
KGS-PC 4/12	1837311	10				

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Pitch 7.62 mm, color: green					
KGS-PC 4/ 6-F	1837353	10			
KGS-PC 4/ 7-F	1837366	10			
KGS-PC 4/ 8-F	1837379	10			
KGS-PC 4/ 9-F	1837382	10			
KGS-PC 4/10-F	1837395	10			
KGS-PC 4/11-F	1837405	10			
KGS-PC 4/12-F	1837418	10			

Plugs with screw connection, pin/socket contact



- High-capacity plugs with a current carrying capacity of 41 A and a connection capacity of 6 mm², flexible/10 mm² solid
- Unrestricted 600-V-UL approval
- Maximum contact safety, thanks to an integrated double steel spring
- An automatic toolless snap-lock mechanism with the click and lock system (-STCL); high degree of safety also in the case of vibrations
- Further features: Screw flange (-STF) and shield (-SH)
- CP-PC coding profile as protection against mismating

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

²) Tightening torque for ≤ 4 mm² = 0.5 to 0.6 Nm Tightening torque for > 4 mm² = 0.7 to 0.8 Nm

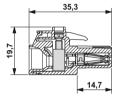


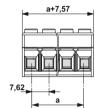
Without screw flange, 600 V UL approval

Accessories For all types Туре Page Coding profile 38 1701967 Marker cards 799 SK 7,62/3,8

P) 20 /P2

Dimensional drawing





/ Pkt.

Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Reduction factor = 0.8 No. of positions: See diagram

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded [mm²]	/ [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the sam	e cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material group	
Inflammability class according to UL 94	

]		411) / 10	
<u>] </u>		1000	
_			
]		7.62	
ì	0.2 - 1	0/0.2-6/	24 - 10
<u>à</u>]]		0.25 - 6	
]		0.25 - 4	
<u>]</u>]_]	0.2	2 - 2.5 / 0.2	- 4
1		0.25 - 1.5	
J		0.25 - 2.5	
			11.70
	III / 3	III / 2	11/2
]	1000	1000	1000
	8 B	8 C	6 D
)	600	600	
1	41	41	-
]] à	24 - 8	24 - 8	
	24 - 8 B	24 - 8 C	D D
1	-	-	-
]]			-
1		-	
]		10	
_		M3	
]		0.5 - 0.82)	
_		PA/I	
_		V0	
_			

		Ordering data					
		Туре	Order No.	Pcs.			
No. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green					
2	7.62	PC 5/ 2-ST1-7,62	1777723	5			
3	15.24	PC 5/ 3-ST1-7,62	1777736	5			
4	22.86	PC 5/ 4-ST1-7,62	1777749	5			
5	30.48	PC 5/ 5-ST1-7,62	1777752	5			
6	38.10	PC 5/ 6-ST1-7,62	1777765	5			
7	45.72	PC 5/ 7-ST1-7,62	1777778	5			
8	53.34	PC 5/ 8-ST1-7,62	1777781	5			
9	60.96	PC 5/ 9-ST1-7,62	1777794	5			
10	68.58	PC 5/10-ST1-7,62	1777804	5			
11	76.20	PC 5/11-ST1-7,62	1777817	5			
12	83.82	PC 5/12-ST1-7,62	1777820	5			



With screw flange, 600 V UL approval



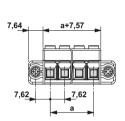
With screw flange and shield, 600 V UL approval



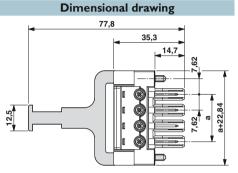
With Click and Lock system, compatible with PC 5 headers and STGCL plug components, 600 V UL approval

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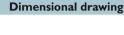
Dimensional drawing

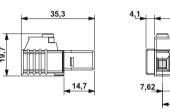


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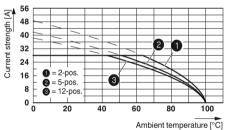
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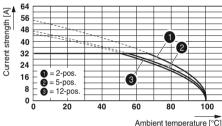


Representative derating curves of the above-mentioned plugs

Type: PC 5/...ST1-7,62 with PC 4/....-G-7,62 Conductor cross section: 4 mm²

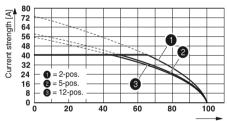


Type: PC 5/...-ST1-7,62 with PC 5/...-G-7,62 Conductor cross section: 6 mm²



Ambient temperature [°C]

Type: PC 5/...-ST1-7,62 with PC 5/...-G-7,62 Conductor cross section: 10 mm²



Ambient temperature [°C]

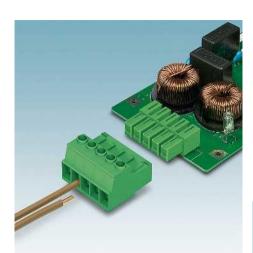
a+7,57

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 7.62 mm, color: green	Pitch 7.62 mm, color: green			
PC 5/ 2-STF1-7,62	1777833	50		
PC 5/ 3-STF1-7,62	1777846	50		
PC 5/ 4-STF1-7,62	1777859	50		
PC 5/ 5-STF1-7,62	1777862	50		
PC 5/ 6-STF1-7,62	1777875	50		
PC 5/ 7-STF1-7,62	1777888	50		
PC 5/ 8-STF1-7,62	1777891	50		
PC 5/ 9-STF1-7,62	1777901	50		
PC 5/10-STF1-7,62	1777914	50		
PC 5/11-STF1-7,62	1777927	50		
PC 5/12-STF1-7,62	1777930	50		

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
PC 5/ 2-STF-SH1-7,62	1778175	50
PC 5/ 3-STF-SH1-7,62	1778188	50
PC 5/ 4-STF-SH1-7,62	1778191	50
PC 5/ 7-STF-SH1-7,62	1778201	50

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
PC 5/ 2-STCL1-7,62	1778065	50
PC 5/ 3-STCL1-7,62	1778078	50
PC 5/ 4-STCL1-7,62	1778081	50
PC 5/ 5-STCL1-7,62	1778094	50
PC 5/ 6-STCL1-7,62	1778104	50
PC 5/ 7-STCL1-7,62	1778117	50
PC 5/ 8-STCL1-7,62	1778120	50
PC 5/ 9-STCL1-7,62	1778133	50
PC 5/10-STCL1-7,62	1778146	50
PC 5/11-STCL1-7,62	1778159	50
PC 5/12-STCL1-7,62	1778162	50

Plugs with screw connection, pin/socket contact



- Inverted IPC 5 plugs with pin contacts for touch-proof device outputs (with IPC 5 G) or free-hanging cable/cable connections
- Unrestricted 600-V-UL approval
- Can be plugged into PC 5 plugs or inverted IPC 5 headers
- An automatic snap-on mechanism without tools for cable-cable connections with the Click and Lock system (-STGCL); high degree of safety even in case of vibrations
- STGF plug with threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

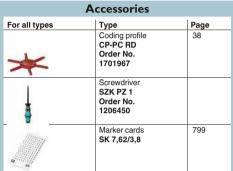
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

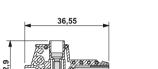


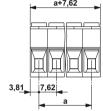
Without screw flange, 600 V UL approval

Dimensional drawing









Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Reduction factor = 0.8 No. of positions: See diagram

Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	h the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	

	411) / 10		
	1000		
	7.62		
0.2 -	10/0.2-6/2	24 - 10	
	0.25 - 6		
	0.25 - 4		
0	.2 - 2.5 / 0.2	- 4	
	0.25 - 1.5		
	0.25 - 2.5		
III/3	III/2	11/2	
1000	1000	1000	
8	8	6	
В	С	D	
600	600	-	
41	41	-	
24 - 8	24 - 8	-	
В	С	D	
-	-	-	
-	-	-	
-	-	-	
	10		
-	M3		
	0.7 - 0.8		
	PA/I		
	VO		

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	IPC 5/ 2-ST-7,62	1709047	50
3	15.24	IPC 5/ 3-ST-7,62	1709050	50
4	22.86	IPC 5/ 4-ST-7,62	1709063	50
5	30.48	IPC 5/ 5-ST-7,62	1709076	50
6	38.10	IPC 5/ 6-ST-7,62	1709089	50
7	45.72	IPC 5/ 7-ST-7,62	1709092	50
8	53.34	IPC 5/ 8-ST-7,62	1709102	50
9	60.96	IPC 5/ 9-ST-7,62	1709115	50
10	68.58	IPC 5/10-ST-7,62	1709128	50
11	76.20	IPC 5/11-ST-7,62	1709131	50
12	83.82	IPC 5/12-ST-7,62	1709144	50

. \$10 us



With screw flange, 600 V UL approval



With threaded flange, 600 V UL approval



With Click and Lock system, compatible with STCL plugs, 600 V UL approval

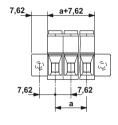
SNus 🖭 **Dimensional drawing**

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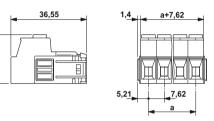
7,62_ 36.55 a+7,62 7,62

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Dimensional drawing

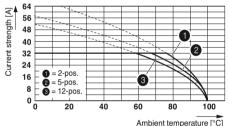


Dimensional drawing

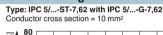


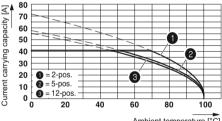
Representative derating curves of the above-mentioned plugs

Type: IPC 5/...-ST-7,62 with PC 5/...-ST1-7,62 Conductor cross section: 6 mm²



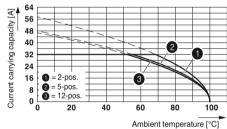
Ambient temperature [°C]





Ambient temperature [°C]





Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
IPC 5/ 2-STF-7,62	1709157	50
IPC 5/ 3-STF-7,62	1709160	50
IPC 5/ 4-STF-7,62	1709173	50
IPC 5/ 5-STF-7,62	1709186	50
IPC 5/ 6-STF-7,62	1709199	50
IPC 5/ 7-STF-7,62	1709209	50
IPC 5/ 8-STF-7,62	1709212	50
IPC 5/ 9-STF-7,62	1709225	50
IPC 5/10-STF-7,62	1709238	50
IPC 5/11-STF-7,62	1709241	50
IPC 5/12-STF-7,62	1709254	50

Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
IPC 5/ 2-STGF-7,62	1709267	50
IPC 5/ 3-STGF-7,62	1709270	50
IPC 5/ 4-STGF-7,62	1709283	50
IPC 5/ 5-STGF-7,62	1709296	50
IPC 5/ 6-STGF-7,62	1709306	50
IPC 5/ 7-STGF-7,62	1709319	50
IPC 5/ 8-STGF-7,62	1709322	50
IPC 5/ 9-STGF-7,62	1709335	50
IPC 5/10-STGF-7,62	1709348	50
IPC 5/11-STGF-7,62	1709351	50
IPC 5/12-STGF-7,62	1709364	50

	Ordering da	ta	
	Туре	Order No.	Pcs. / Pk
	Pitch 7.62 mm, color: green		
	IPC 5/ 2-STGCL-7,62	1718261	50
	IPC 5/ 3-STGCL-7,62	1718274	50
	IPC 5/ 4-STGCL-7,62	1718287	50
	IPC 5/ 5-STGCL-7,62	1718290	50
	IPC 5/ 6-STGCL-7,62	1718300	50
_	IPC 5/ 7-STGCL-7,62	1718313	50
_	IPC 5/ 8-STGCL-7,62	1718326	50
_	IPC 5/ 9-STGCL-7,62	1718339	50
_	IPC 5/10-STGCL-7,62	1718342	50
_	IPC 5/11-STGCL-7,62	1718355	50
_	IPC 5/12-STGCL-7,62	1718368	50

Plugs with screw connection, pin/socket contact



- The SH versions provide a professional EMC shield for adherence to the EMC requirements and an optional strain relief
- Unrestricted 600-V-UL approval
- Can be plugged into PC 5 plugs or inverted IPC 5 headers
- Increased vibration protection for cable/cable connections, thanks to screwon STGF plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

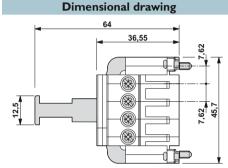
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



With screw flange and shield, 600 V UL approval

c**91**us



Note derating curves

Derating curves according to DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Number of positions = see diagram

Accessories		
For all types	Туре	Page
*	Coding profile CP-PC RD Order No. 1701967	38
1	Screwdriver SZK PZ 1 Order No. 1206450	
a a	Marker cards SK 7,62/3,8	799

No. of pos.

Dim. a [mm] 22.86

Technical data	
	_
Technical data in accordance to IEC / DIN VDI	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	

	411) / 10		
	1000		
	7.62		
0.2 - 10	0/0.2-6/	24 - 10	
	0.25 - 6		
	0.25 - 4		
0.0	0.5/0.0	4	
U.2	2 - 2.5 / 0.2 0.25 - 1.5	- 4	
	0.25 - 2.5		
	0.23 - 2.3		
III/3	III/2	11/2	
1000	1000	1000	
8	8	6	
В	С	D	
600	600	-	
41	41	-	
24 - 8	24 - 8	-	
В	С	D	
-	-	-	
	•	-	
-	-	-	
	10		
	M3 0.7 - 0.8		
PA/I			
	V0		
	VO		

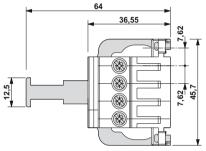
Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
IPC 5/ 4-STF-SH-7,62	1709380	50



With threaded flange and shield, 600 V UL approval

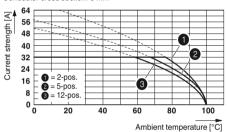
c**91** us

Dimensional drawing 64



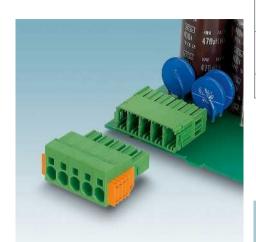
Representative derating curve

Type: IPC 5/...-ST-7,62 with PC 5/...-ST1-7,62 Conductor cross section: 6 mm²



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
IPC 5/ 4-STGF-SH-7,62	1709377	50

Plugs with push-in spring connection, pin/socket contact



- Push-in spring connection with a current carrying capacity of 41 A
- Fast connection technology, thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval
- Maximum contact safety, thanks to an integrated double steel spring
- An automatic snap-on mechanism without tools with the Click and Lock system (-STCL); high degree of safety even in case of vibrations
- The SH versions provide a professional shield and an optional strain relief
- CP-PC RD coding profile

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval

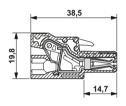
Accessories For all types Туре Page Coding profile 38 1701967 Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517 799 Marker cards SK 7,62/3,8 Ferrules with and without 834 plastic sleeve Crimping pliers for 0.25

CRIMPFOX 6

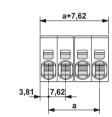
Order No.

1212034





P) 20 /P2



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Reduction factor = 0.8

No. of positions: See diagram

Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	lıııııl
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with Solid / stranded	,
	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	2.0
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	

	41¹) / 10 1000	
	1000	
	7.62	
0.2 -	10/0.2-6/	24 - 8
	0.25 - 6	
	0.25 - 4	
	-/-	
	-	
	0.25 - 1.5	
III/3	III/2	II / 2
1000	1000	1000
8	8	6
В	С	D
600	600	-
35	35	-
24 - 8	24 - 8	
В	С	D
-	-	-
-	-	-
-	-	-
	15	
	PA/I	-
	V0	

		Ordering dat	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	SPC 5/ 2-ST-7,62	1996016	50
3	15.24	SPC 5/ 3-ST-7,62	1996029	50
4	22.86	SPC 5/ 4-ST-7,62	1996032	50
5	30.48	SPC 5/ 5-ST-7,62	1996045	50
6	38.10	SPC 5/ 6-ST-7,62	1996058	50
7	45.72	SPC 5/ 7-ST-7,62	1996061	50
8	53.34	SPC 5/ 8-ST-7,62	1996074	50
9	60.96	SPC 5/ 9-ST-7,62	1996087	50
10	68.58	SPC 5/10-ST-7,62	1996090	50
11	76.20	SPC 5/11-ST-7,62	1996100	50
12	83.82	SPC 5/12-ST-7,62	1996113	50



With screw flange, 600 V UL approval



With screw flange and shield, 600 V UL approval

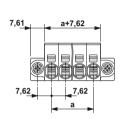


With Click and Lock system, compatible with PC 5 headers and STGCL plug components, 600 V UL approval

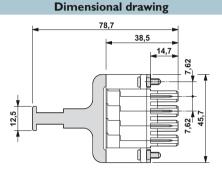
Dimensional drawing

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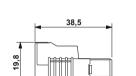
Dimensional drawing



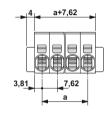
c**91**us



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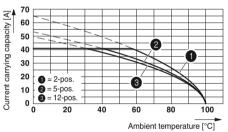


14,7

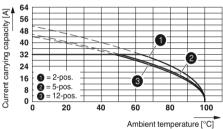


Representative derating curves of the above-mentioned plugs

Type: SPC 5/...-ST-7,62 with PC 5/...-G-7,62 Conductor cross section: 10 mm²



Type: SPC 5/...-ST-7,62 with PC 5/...-G-7,62 Conductor cross section: 6 mm²



Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
SPC 5/ 2-STF-7,62	1996126	50
SPC 5/ 3-STF-7,62	1996139	50
SPC 5/ 4-STF-7,62	1996142	50
SPC 5/ 5-STF-7,62	1996155	50
SPC 5/ 6-STF-7,62	1996168	50
SPC 5/ 7-STF-7,62	1996171	50
SPC 5/ 8-STF-7,62	1996184	50
SPC 5/ 9-STF-7,62	1996197	50
SPC 5/10-STF-7,62	1996207	50
SPC 5/11-STF-7,62	1996210	50
SPC 5/12-STF-7,62	1996223	50

Ordering da	La	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
		_
SPC 5/ 4-STF-SH-7,62	1704071	50

Ordering date	ta	
Туре	Order No.	Pcs. / Pkt
Pitch 7.62 mm, color: green		
SPC 5/ 2-STCL-7,62	1718481	50
SPC 5/ 3-STCL-7,62	1718494	50
SPC 5/ 4-STCL-7,62	1718504	50
SPC 5/ 5-STCL-7,62	1718517	50
SPC 5/ 6-STCL-7,62	1718520	50
SPC 5/ 7-STCL-7,62	1718533	50
SPC 5/ 8-STCL-7,62	1718546	50
SPC 5/ 9-STCL-7,62	1718559	50
SPC 5/10-STCL-7,62	1718562	50
SPC 5/11-STCL-7,62	1718575	50
SPC 5/12-STCL-7,62	1718588	50

Plugs with push-in spring connection, pin/socket contact



- Push-in spring connection with TWIN connection
- Simple potential distribution through two terminal points per contact
- Fast connection technology, thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval
- Maximum contact safety, thanks to an integrated double steel spring
- An automatic snap-on mechanism without tools with the Click and Lock system (-STCL); high degree of safety even in case of vibrations
- Further features: screw flange (-STF)
- CP-PC RD coding profile

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

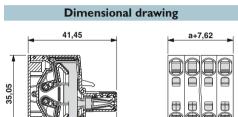
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval

P) 20 /P2

Accessories		
For all types	Туре	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
*	Coding profile CP-PC RD Order No. 1701967	38
· _ /	Marker cards SK 7,62/3,8	799
]]	Ferrules with and without plastic sleeve	834
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	



Note derating curves

3,81

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 10 mm² Reduction factor = 0.8 Number of positions = see diagram

14,7

Technical data	
Technical data in accordance to IEC / DIN VI	DΕ
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	f1
	[mm]
Connection capacity Solid / stranded	F21 / F21 / ANNO
	[mm²] / [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	,
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleev	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Type of insulation material / insulation material / Inflammability class according to UL 94	al group

411) / 10			
	1000		
	7.62		
0.2 - 1	0/0.2-6/	24 - 8	
	0.25 - 6		
	0.25 - 4		
	-/-		
	0.25 - 1.5		
III/3	III/2	II / 2	
1000	1000	1000	
8	8	6	
В	С	D	
600	600	-	
31	31	-	
24 - 8	24 - 8	-	
В	С	D	
-	-	-	
-	-	-	
-	-	-	
	15		
PA/I			

		Ordering date	ta	
		Туре	Order No.	Pcs. / Pkt.
lo. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	TSPC 5/ 2-ST-7,62	1728455	50
3	15.24	TSPC 5/ 3-ST-7,62	1728468	50
4	22.86	TSPC 5/ 4-ST-7,62	1728471	50
5	30.48	TSPC 5/ 5-ST-7,62	1728484	50
6	38.10	TSPC 5/ 6-ST-7,62	1728497	25
7	45.72	TSPC 5/ 7-ST-7,62	1728507	25
8	53.34	TSPC 5/ 8-ST-7,62	1728510	25
9	60.96	TSPC 5/ 9-ST-7,62	1728523	25
10	68.58	TSPC 5/10-ST-7,62	1728536	25
11	76.20	TSPC 5/11-ST-7,62	1728549	25
12	83.82	TSPC 5/12-ST-7,62	1728552	25



With screw flange, 600 V UL approval

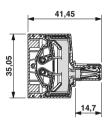


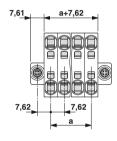
With Click and Lock system, compatible with PC 5 headers and STGCL plug components, 600 V UL approval

Dimensional drawing

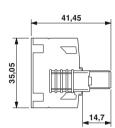
91 us 🕝

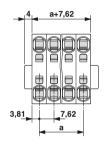
Dimensional drawing





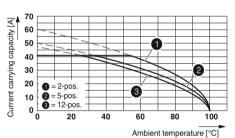
P





Representative derating curve

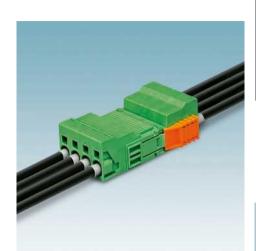
Type: TSPC 5/...-ST-7,62 with PC 5/...-G-7,62



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
TSPC 5/ 2-STF-7,62	1728206	50
TSPC 5/ 3-STF-7,62	1728219	50
TSPC 5/ 4-STF-7,62	1728222	50
TSPC 5/ 5-STF-7,62	1728235	50
TSPC 5/ 6-STF-7,62	1728248	25
TSPC 5/ 7-STF-7,62	1728251	25
TSPC 5/ 8-STF-7,62	1728264	25
TSPC 5/ 9-STF-7,62	1728277	25
TSPC 5/10-STF-7,62	1728280	25
TSPC 5/11-STF-7,62	1728293	25
TSPC 5/12-STF-7,62	1728303	25

Ordering da	ıta	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
TSPC 5/ 2-STCL-7,62	1765418	10
TSPC 5/ 3-STCL-7,62	1765421	10
TSPC 5/ 4-STCL-7,62	1765434	10
TSPC 5/ 5-STCL-7,62	1765447	10
TSPC 5/ 6-STCL-7,62	1765450	10
TSPC 5/ 7-STCL-7,62	1765463	10
TSPC 5/ 8-STCL-7,62	1765476	10
TSPC 5/ 9-STCL-7,62	1765489	10
TSPC 5/10-STCL-7,62	1765492	10
TSPC 5/11-STCL-7,62	1765502	10
TSPC 5/12-STCL-7,62	1765515	10

Plugs with push-in spring connection, pin/socket contact



- Inverted ISPC 5 push-in spring connection plugs with pin contact for touchproof device outputs (with IPC 5 G) or free-hanging cable/cable connections (with SPC 5 ST)
- Unrestricted 600-V-UL approval
- Increased vibration protection, thanks to screw-on STF plug with screw flange
- STGF plug with threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



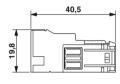
With Click and Lock system, compatible with STCL plugs, 600 V UL approval

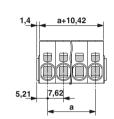


Accessories For all types Page Type Coding profile 38 1701967 Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517 Marker cards 799 SK 7.62/3.8

a,		
	Ferrules with and without plastic sleeve	834
Ň	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 6 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section [A] / [mm²] Rated insulation voltage for pollution degree 2 [V] Pitch [mm] Connection capacity $[\text{mm}^2]\,/\,[\text{mm}^2]\,/\,\text{AWG}$ Solid / stranded Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid / stranded [mm²] Stranded with ferrules without plastic sleeve [mm²] Stranded with TWIN ferrule with plastic sleeve [mm²] Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [V] Rated surge voltage [kV] Approval data (UL/CUL) Use Group Nominal voltage [V] Nominal current AWG Connection capacity AWG Approval data (CSA) Use Group Nominal voltage [V] Nominal current [A] Connection capacity AWG AWG General data Stripping length [mm] Type of insulation material / insulation material group

Technical data

	411) / 10	
	1000	
	7.62	
0.2 - 1	0/0.2-6/	24 - 8
	0.25 - 6	
	0.25 - 4	
	-/-	
	- 0.25 - 1.5	
III/3	III/2	11/2
1000	1000	1000
8	8	6
В	С	D
600	600	-
35	35	-
24 - 8	24 - 8	-
В	С	D
-	-	-
-	-	-
-	-	-
	15	
	PA/I	
	V0	

		Ordering da	ta	
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]	Pitch 7.62 mm, color: green		
2	7.62	ISPC 5/ 2-STGCL-7,62	1748862	50
3	15.24	ISPC 5/ 3-STGCL-7,62	1748875	50
4	22.86	ISPC 5/ 4-STGCL-7,62	1748888	50
5	30.48	ISPC 5/ 5-STGCL-7,62	1748891	50
6	38.10	ISPC 5/ 6-STGCL-7,62	1748901	50
7	45.72	ISPC 5/ 7-STGCL-7,62	1748914	50
8	53.34	ISPC 5/ 8-STGCL-7,62	1748927	50
9	60.96	ISPC 5/ 9-STGCL-7,62	1748930	50
10	68.58	ISPC 5/10-STGCL-7,62	1748943	50
11	76.20	ISPC 5/11-STGCL-7,62	1748956	50
12	83.82	ISPC 5/12-STGCL-7,62	1748969	50

Inflammability class according to UL 94



With screw flange, 600 V UL approval



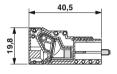
With threaded flange, 600 V UL approval

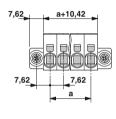


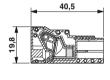
Dimensional drawing

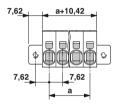
PLus 🕑

Dimensional drawing



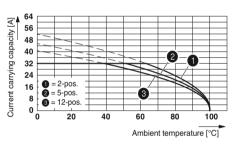




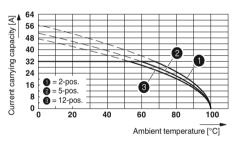


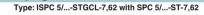
Representative derating curves of the above-mentioned plugs

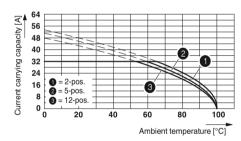
Type: ISPC 5/...-STGCL-7,62 with IPC 5/...-G-7,62











Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
ISPC 5/ 2-STF-7,62	1748972	50
ISPC 5/ 3-STF-7,62	1748985	50
ISPC 5/ 4-STF-7,62	1748998	50
ISPC 5/ 5-STF-7,62	1749007	50
ISPC 5/ 6-STF-7,62	1749010	50
ISPC 5/ 7-STF-7,62	1749023	50
ISPC 5/ 8-STF-7,62	1749036	50
ISPC 5/ 9-STF-7,62	1749049	50
ISPC 5/10-STF-7,62	1749052	50
ISPC 5/11-STF-7,62	1749065	50
ISPC 5/12-STF-7,62	1749078	50

Ordering date	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
ISPC 5/ 2-STGF-7,62	1749201	50
ISPC 5/ 3-STGF-7,62	1749214	50
ISPC 5/ 4-STGF-7,62	1749227	50
ISPC 5/ 5-STGF-7,62	1749230	50
ISPC 5/ 6-STGF-7,62	1749243	50
ISPC 5/ 7-STGF-7,62	1749256	50
ISPC 5/ 8-STGF-7,62	1749269	50
ISPC 5/ 9-STGF-7,62	1749272	50
ISPC 5/10-STGF-7,62	1749285	50
ISPC 5/11-STGF-7,62	1749298	50
ISPC 5/12-STGF-7,62	1749308	50

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Headers with pin contact



- PC 5 headers for use in combination with PC 5 plugs
- If the GU headers are used, the plug is rotated by 180° before fitting
- Vibration-resistant connection with a threaded flange (-GF; also for screw connection in the device)
- Compatible with the Click and Lock sys-
- Shroud PCB-SHIELD for a professional EMC shield connection
- CP-PC RD coding profile as protection against mismating
- Suitable for 600 V UL when used in combination with PC 5 screw or springcage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

Mounting screw for PC 5/...-GF-7,62 and PC 5/...-GFU-7,62: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Compatible with STCL plugs



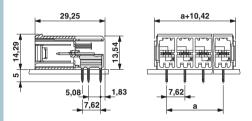
For all types	Туре	Page
*	Coding profile CP-PC RD Order No. 1701967	38
. /	Marker cards SK 7,62/3,8	799

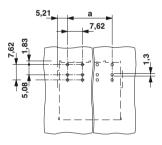
Only for PC 5/...-G-7,62 and PC 5/...-GU-7,62

,	Shroud	1
2.		
	POWER COMBICON	
Smills	PCB-SHIELD	
A	Order No.	
A	1968387	

P) 20 /P2

Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
·	

	41¹)	
	630	
	7.62	
III/3	III/2	II / 2
630	630	1000
6	6	6
В	С	D
300	150	300
41	41	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.3 / 0.8 x 1	.0

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
PC 5/ 2-G-7,62	1720466	50
PC 5/ 3-G-7,62	1720479	50
PC 5/ 4-G-7,62	1720482	50
PC 5/ 5-G-7,62	1720495	50
PC 5/ 6-G-7,62	1720505	50
PC 5/ 7-G-7,62	1720518	50
PC 5/ 8-G-7,62	1720521	50
PC 5/ 9-G-7,62	1720534	50
PC 5/10-G-7,62	1720547	50
PC 5/11-G-7,62	1720550	50
PC 5/12-G-7,62	1720563	50



With threaded flange



Rotated 180°, compatible with STCL plugs



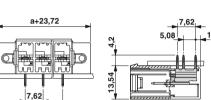
Rotated 180°, with threaded flange



29,25

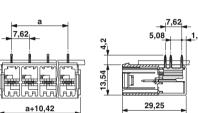
7,62

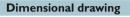
Dimensional drawing

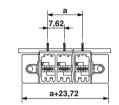


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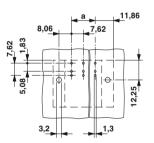
PLus 🕑 **Dimensional drawing**







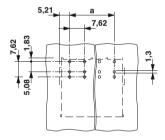
Drilling diagram



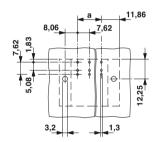
Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
PC 5/ 2-GF-7,62	1720796	50
PC 5/ 3-GF-7,62	1720806	50
PC 5/ 4-GF-7,62	1720819	50
PC 5/ 5-GF-7,62	1720822	50
PC 5/ 6-GF-7,62	1720835	50
PC 5/ 7-GF-7,62	1720848	50
PC 5/ 8-GF-7,62	1720851	50
PC 5/ 9-GF-7,62	1720864	50
PC 5/10-GF-7,62	1720877	50
PC 5/11-GF-7,62	1720880	50
PC 5/12-GF-7,62	1720893	50

Drilling diagram

29,25



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
PC 5/ 2-GU-7,62	1720686	50
PC 5/ 3-GU-7,62	1720699	50
PC 5/ 4-GU-7,62	1720709	50
PC 5/ 5-GU-7,62	1720712	50
PC 5/ 6-GU-7,62	1720725	50
PC 5/ 7-GU-7,62	1720738	50
PC 5/ 8-GU-7,62	1720741	50
PC 5/ 9-GU-7,62	1720754	50
PC 5/10-GU-7,62	1720767	50
PC 5/11-GU-7,62	1720770	50
PC 5/12-GU-7,62	1720783	50



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
PC 5/ 2-GFU-7,62	1721012	50
PC 5/ 3-GFU-7,62	1721025	50
PC 5/ 4-GFU-7,62	1721038	50
PC 5/ 5-GFU-7,62	1721041	50
PC 5/ 6-GFU-7,62	1721054	50
PC 5/ 7-GFU-7,62	1721067	50
PC 5/ 8-GFU-7,62	1721070	50
PC 5/ 9-GFU-7,62	1721083	50
PC 5/10-GFU-7,62	1721096	50
PC 5/11-GFU-7,62	1721106	50
PC 5/12-GFU-7,62	1721119	50

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Headers with pin contact



- Vertical PC 5 headers for use in combination with PC 5 plugs
- Available with 2 to 12-pos.
- Vibration-resistant connection with a threaded flange (-GF; also for screw connection in the device)
- Compatible with the Click and Lock sys-
- Asymmetrical layout of solder pins to avoid incorrect plugging-in
- Suitable for 600 V UL when used in combination with PC 5 screw or springcage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

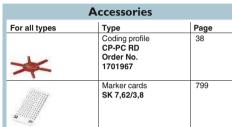
You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

Mounting screw for PCV 5/...-GF-7,62: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

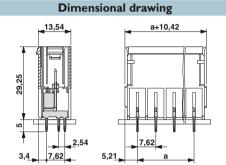
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

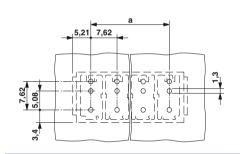


Compatible with STCL plugs









Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
<u> </u>	

	41¹)	
	630	
	7.62	
III/3	III/2	II / 2
630	630	1000
6	6	6
В	С	D
300	150	300
41	41	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.3 / 0.8 x 1.	.0

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

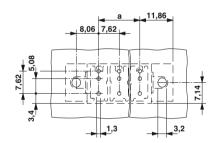
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 7.62 mm, color: green			
PCV 5/ 2-G-7,62	1720576	50	
PCV 5/ 3-G-7,62	1720589	50	
PCV 5/ 4-G-7,62	1720592	50	
PCV 5/ 5-G-7,62	1720602	50	
PCV 5/ 6-G-7,62	1720615	50	
PCV 5/ 7-G-7,62	1720628	50	
PCV 5/ 8-G-7,62	1720631	50	
PCV 5/ 9-G-7,62	1720644	50	
PCV 5/10-G-7,62	1720657	50	
PCV 5/11-G-7,62	1720660	50	
PCV 5/12-G-7,62	1720673	50	



With threaded flange



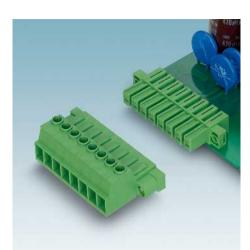
Dimensional drawing a+23,72 8,06 7,62 11,86



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
PCV 5/ 2-GF-7,62	1720903	50
PCV 5/ 3-GF-7,62	1720916	50
PCV 5/ 4-GF-7,62	1720929	50
PCV 5/ 5-GF-7,62	1720932	50
PCV 5/ 6-GF-7,62	1720945	50
PCV 5/ 7-GF-7,62	1720958	50
PCV 5/ 8-GF-7,62	1720961	50
PCV 5/ 9-GF-7,62	1720974	50
PCV 5/10-GF-7,62	1720987	50
PCV 5/11-GF-7,62	1720990	50
PCV 5/12-GF-7,62	1721009	50

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Headers with socket contact



- An inverted IPC 5 header to implement a touch-proof PCB output or a PCB-PCB connection (in combination with PC 5 base strips)
- Maximum contact safety, thanks to an integrated double steel spring
- GU versions for a solder-in direction rotated by 180°
- Shroud PCB-SHIELD for a professional EMC shield connection
- Suitable for 600 V UL when used in combination with IPC 5 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



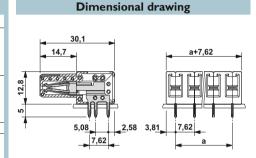
Without threaded flange

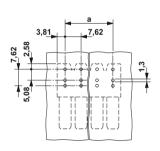
Accessories For all types Туре Page Coding profile 38 1701967 Marker cards 799 SK 7,62/3,8

Only for IPC 5/...-G-7,62 and IPC 5/...-GU-7,62

4.1	Shroud	
- III	POWER COMBICON	
Smilla	PCB-SHIELD	
2 2	Order No.	
	1968387	

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Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	41¹)	
	630	
	7.62	
III/3	III/2	11/2
630	630	1000
6	6	6
В	С	D
300	300	600
41	41	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.3 / 1.2 x 0.	.8

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	69.58
11	76.20
12	83.82

Ordering data		
		D (D)
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
IPC 5/ 2-G-7,62	1708381	50
IPC 5/ 3-G-7,62	1708394	50
IPC 5/ 4-G-7,62	1708404	50
IPC 5/ 5-G-7,62	1708417	50
IPC 5/ 6-G-7,62	1708420	50
IPC 5/ 7-G-7,62	1708433	50
IPC 5/ 8-G-7,62	1708446	50
IPC 5/ 9-G-7,62	1708459	50
IPC 5/10-G-7,62	1708462	50
IPC 5/11-G-7,62	1708475	50
IPC 5/12-G-7,62	1708488	50



With threaded flange



Rotated 180°, without threaded flange

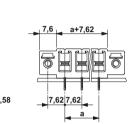


Rotated 180°, with threaded flange

Dimensional drawing

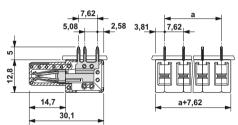
c**91** us

Dimensional drawing

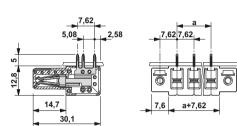


Dimensional drawing

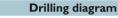
c**91**us

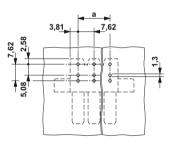


c**91**us

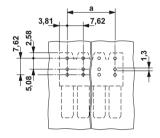


Drilling diagram

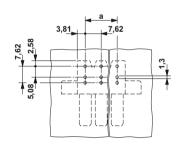








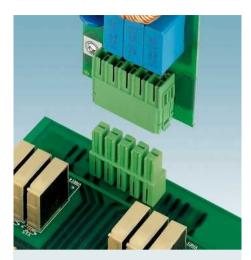
Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
IPC 5/ 2-GU-7,62	1708608	50
IPC 5/ 3-GU-7,62	1708611	50
IPC 5/ 4-GU-7,62	1708624	50
IPC 5/ 5-GU-7,62	1708637	50
IPC 5/ 6-GU-7,62	1708640	50
IPC 5/ 7-GU-7,62	1708653	50
IPC 5/ 8-GU-7,62	1708666	50
IPC 5/ 9-GU-7,62	1708679	50
IPC 5/10-GU-7,62	1708682	50
IPC 5/11-GU-7,62	1708695	50
IPC 5/12-GU-7,62	1708705	50



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
IPC 5/ 2-GFU-7,62	1708718	50
IPC 5/ 3-GFU-7,62	1708721	50
IPC 5/ 4-GFU-7,62	1708734	50
IPC 5/ 5-GFU-7,62	1708747	50
IPC 5/ 6-GFU-7,62	1708750	50
IPC 5/ 7-GFU-7,62	1708763	50
IPC 5/ 8-GFU-7,62	1708776	50
IPC 5/ 9-GFU-7,62	1708789	50
IPC 5/10-GFU-7,62	1708792	50
IPC 5/11-GFU-7,62	1708802	50
IPC 5/12-GFU-7,62	1708815	50

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Headers with socket contact



- An inverted IPC 5 header in a vertical design to implement a touch-proof PCB output or a PCB-PCB connection (in combination with PC 5 base strips)
- Maximum contact safety, thanks to an integrated double steel spring
- Asymmetrical layout of solder pins to avoid incorrect plugging-in
- Threaded flange -GF
- Suitable for 600 V UL when used in combination with IPC 5 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

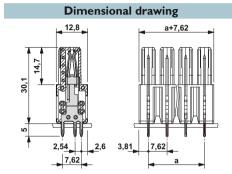
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

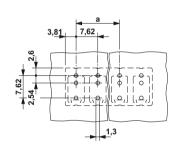


Without threaded flange

Accessories For all types Туре Page Coding profile 38 1701967 Marker cards 799 SK 7,62/3,8







Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	41¹)	
	630	
	7.62	
III/3	III/2	II / 2
630	630	1000
6	6	6
В	С	D
300	300	600
41	41	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.3 / 1.2 x 0.	.8

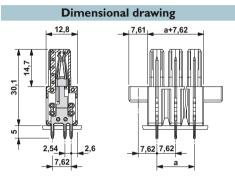
No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

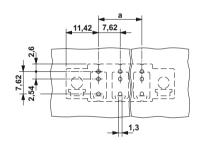
Ordering data		
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
IPCV 5/ 2-G-7,62	1708828	50
IPCV 5/ 3-G-7,62	1708831	50
IPCV 5/ 4-G-7,62	1708844	50
IPCV 5/ 5-G-7,62	1708857	50
IPCV 5/ 6-G-7,62	1708860	50
IPCV 5/ 7-G-7,62	1708873	50
IPCV 5/ 8-G-7,62	1708886	50
IPCV 5/ 9-G-7,62	1708899	50
IPCV 5/10-G-7,62	1708909	50
IPCV 5/11-G-7,62	1708912	50
IPCV 5/12-G-7,62	1708925	50



With threaded flange



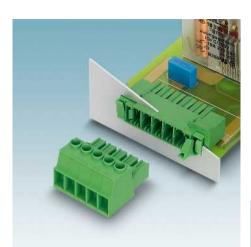




Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
IPCV 5/ 2-GF-7,62	1708938	50
IPCV 5/ 3-GF-7,62	1708941	50
IPCV 5/ 4-GF-7,62	1708954	50
IPCV 5/ 5-GF-7,62	1708967	50
IPCV 5/ 6-GF-7,62	1708970	50
IPCV 5/ 7-GF-7,62	1708983	50
IPCV 5/ 8-GF-7,62	1708996	50
IPCV 5/ 9-GF-7,62	1709005	50
IPCV 5/10-GF-7,62	1709018	50
IPCV 5/11-GF-7,62	1709021	50
IPCV 5/12-GF-7,62	1709034	50

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Feed-through header with a pin con-



- Feed-through headers for use in combination with all PC 5 plugs
- To solder onto the PCB
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be executed on the housing wall
- If the GU headers are used, the plug is rotated by 180° before fitting
- Suitable for 600 V UL when used in combination with PC 5 screw and spring-cage plugs

Notes:

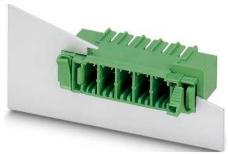
In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

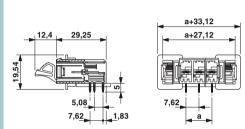


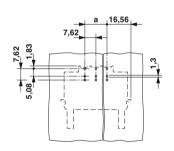
Compatible with STCL plugs

Dimensional drawing

Accessories For all types Туре Page Coding profile 38 Order No. 1701967 Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449 Marker cards 799 SK 7,62/3,8

P) 20 /P2





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

/2
100
6
D
00
10
-
D
-
-
-

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
DFK-PC 5/ 2-G-7,62	1727582	10
DFK-PC 5/ 3-G-7,62	1727595	10
DFK-PC 5/ 4-G-7,62	1727605	10
DFK-PC 5/ 5-G-7,62	1727618	10
DFK-PC 5/ 6-G-7,62	1727621	10
DFK-PC 5/ 7-G-7,62	1727634	10
DFK-PC 5/ 8-G-7,62	1727647	10
DFK-PC 5/ 9-G-7,62	1727650	10
DFK-PC 5/10-G-7,62	1727663	10
DFK-PC 5/11-G-7,62	1727676	10
DFK-PC 5/12-G-7,62	1727689	10



With threaded flange and shield connection on the front of the device



Rotated 180°, compatible with STCL plugs



Rotated 180°, threaded flange, shield connection on the front of the device

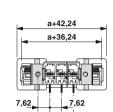
Dimensional drawing

c**91**0s @

12,4

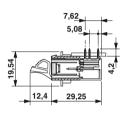
29,25

Dimensional drawing



PLus 🕑

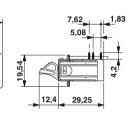
Dimensional drawing

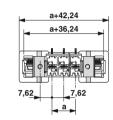


PLus 🕑

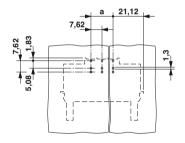
a+33,12

a+27,12



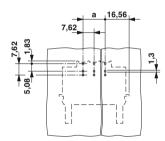


Drilling diagram

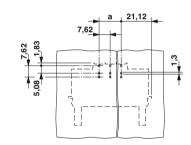


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 7.62 mm, color: green				
DFK-PC 5/ 2-GF-7,62	1727692	10		
DFK-PC 5/ 3-GF-7,62	1727702	10		
DFK-PC 5/ 4-GF-7,62	1727715	10		
DFK-PC 5/ 5-GF-7,62	1727728	10		
DFK-PC 5/ 6-GF-7,62	1727731	10		
DFK-PC 5/ 7-GF-7,62	1727744	10		
DFK-PC 5/ 8-GF-7,62	1727757	10		
DFK-PC 5/ 9-GF-7,62	1727760	10		
DFK-PC 5/10-GF-7,62	1727773	10		
DFK-PC 5/11-GF-7,62	1727786	10		
DFK-PC 5/12-GF-7,62	1727799	10		

Drilling diagram



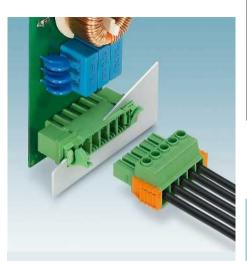
Ordering data				
Туре	Order No.	Pcs. / Pkt		
Pitch 7.62 mm, color: green				
DFK-PC 5/ 2-GU-7,62	1727809	10		
DFK-PC 5/ 3-GU-7,62	1727812	10		
DFK-PC 5/ 4-GU-7,62	1727825	10		
DFK-PC 5/ 5-GU-7,62	1727838	10		
DFK-PC 5/ 6-GU-7,62	1727841	10		
DFK-PC 5/ 7-GU-7,62	1727854	10		
DFK-PC 5/ 8-GU-7,62	1727867	10		
DFK-PC 5/ 9-GU-7,62	1727870	10		
DFK-PC 5/10-GU-7,62	1727883	10		
DFK-PC 5/11-GU-7,62	1727896	10		
DFK-PC 5/12-GU-7,62	1727906	10		



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
DFK-PC 5/ 2-GFU-7,62	1727919	10
DFK-PC 5/ 3-GFU-7,62	1727922	10
DFK-PC 5/ 4-GFU-7,62	1727935	10
DFK-PC 5/ 5-GFU-7,62	1727948	10
DFK-PC 5/ 6-GFU-7,62	1727951	10
DFK-PC 5/ 7-GFU-7,62	1727964	10
DFK-PC 5/ 8-GFU-7,62	1727977	10
DFK-PC 5/ 9-GFU-7,62	1727980	10
DFK-PC 5/10-GFU-7,62	1727993	10
DFK-PC 5/11-GFU-7,62	1728002	10
DFK-PC 5/12-GFU-7,62	1716056	10

PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm

Feed-through header with a pin contact



- Feed-through headers for use in combination with all PC 5 plugs
- To solder onto the PCB
- In SH versions, shielding functions can be executed on the inside of the device
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw con-
- Wall thicknesses from 1 mm to 3 mm
- Suitable for 600 V UL when used in combination with PC 5 screw or springcage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

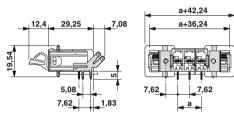


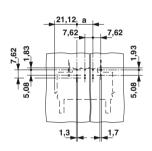
With threaded flange and shield feed-through on the inside of the device

P) 20 /P2

Accessories			
For all types	Type Coding profile CP-PC RD Order No. 1701967	Page 38	
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449		
• /	Marker cards SK 7,62/3,8	799	

Dimensional drawing



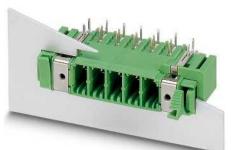


Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	41¹)	
	630	
	7.62	
III/3	III/2	11/2
500	630	800
6	6	6
В	С	D
300	150	300
41	41	10
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1.3 / 0.8 x 1.0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
DFK-PC 5/ 2-GF-SH-7,62	1716069	10
DFK-PC 5/ 3-GF-SH-7,62	1716072	10
DFK-PC 5/ 4-GF-SH-7,62	1716085	10
DFK-PC 5/ 5-GF-SH-7,62	1716098	10
DFK-PC 5/ 6-GF-SH-7,62	1716108	10
DFK-PC 5/ 7-GF-SH-7,62	1716111	10
DFK-PC 5/ 8-GF-SH-7,62	1716124	10
DFK-PC 5/ 9-GF-SH-7,62	1716137	10
DFK-PC 5/10-GF-SH-7,62	1716140	10
DFK-PC 5/11-GF-SH-7,62	1716153	10
DFK-PC 5/12-GF-SH-7,62	1716166	10



Rotated 180°, threaded flange, shield feedthrough on the inside of the device



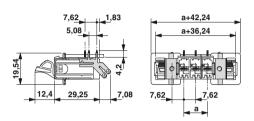
Vertical, compatible with STCL plugs



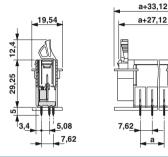
Vertical, threaded flange, shield connection on the front of the device



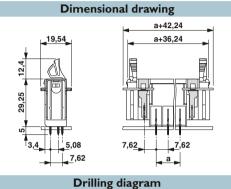
Dimensional drawing



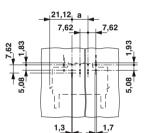
P **Dimensional drawing**



P

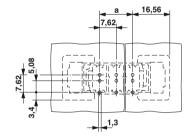


Drilling diagram



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
DFK-PC 5/ 2-GFU-SH-7,62	1716179	10
DFK-PC 5/ 3-GFU-SH-7,62	1716182	10
DFK-PC 5/ 4-GFU-SH-7,62	1716195	10
DFK-PC 5/ 5-GFU-SH-7,62	1716205	10
DFK-PC 5/ 6-GFU-SH-7,62	1716218	10
DFK-PC 5/ 7-GFU-SH-7,62	1716221	10
DFK-PC 5/ 8-GFU-SH-7,62	1716234	10
DFK-PC 5/ 9-GFU-SH-7,62	1716247	10
DFK-PC 5/10-GFU-SH-7,62	1716250	10
DFK-PC 5/11-GFU-SH-7,62	1716263	10
DFK-PC 5/12-GFU-SH-7,62	1716276	10

Drilling diagram



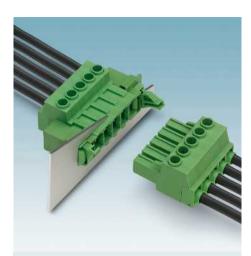
Ordering data		
Туре	Order No.	Pcs. / Pkt
Pitch 7.62 mm, color: green		
DFK-PCV 5/ 2-G-7,62	1716289	10
DFK-PCV 5/ 3-G-7,62	1716292	10
DFK-PCV 5/ 4-G-7,62	1716302	10
DFK-PCV 5/ 5-G-7,62	1716315	10
DFK-PCV 5/ 6-G-7,62	1716328	10
DFK-PCV 5/ 7-G-7,62	1716331	10
DFK-PCV 5/ 8-G-7,62	1716344	10
DFK-PCV 5/ 9-G-7,62	1716357	10
DFK-PCV 5/10-G-7,62	1716360	10
DFK-PCV 5/11-G-7,62	1716373	10
DFK-PCV 5/12-G-7.62	1716386	10

21,12 7,62

1,3

Ordering data		
Order No.	Pcs. / Pkt.	
1716399	10	
1716409	10	
1716412	10	
1716425	10	
1716438	10	
1716441	10	
1716454	10	
1716467	10	
1716470	10	
1716483	10	
1716496	10	
	1716399 1716409 1716412 1716425 1716438 1716441 1716454 1716467 1716470 1716483	

Feed-through header with a pin contact



- Feed-through headers for use in combination with PC 5 plugs
- Screw connection for direct wiring on the inside of the device
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be executed on the inside of the device as well

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 486.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

1) Derating curves on request.



Compatible with STCL plugs, 600 V UL approval

PLus 🕑

Dimensional drawing a+33,12 a+27,12 36,55 12,4

Accessories		
Type Coding profile CP-PC RD Order No. 1701967	Page 38	
Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449		
Marker cards SK 7,62/3,8	799	
Screwdriver SZK PZ 1 Order No. 1206450		
	Type Coding profile CP-PC RD Order No. 1701967 Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449 Marker cards SK 7,62/3,8 Screwdriver SZK PZ 1 Order No.	

Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²
Rated insulation voltage for pollution degree 2	
Pitch	[mm
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with ferrules with plastic sleeve	[mm ²
Multi-conductor connection capacity (two conductors with	n the same cross section)
Solid / stranded	[mm ²
Stranded with ferrules without plastic sleeve	[mm ²
Stranded with TWIN ferrule with plastic sleeve	e [mm²
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V
Rated surge voltage	[kV
Approval data (UL/CUL)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWC
Approval data (CSA)	Use Group
Nominal voltage	[V
Nominal current	[A
Connection capacity AWG	AWG
General data	
Stripping length	[mm
Screw thread	
Tightening torque	[Nm
Type of insulation material / insulation material	ıl group
Inflammability class according to UL 94	

	411) / 10	
	1000	
	7.62	
0.2 - 10	0/0.2-6/	24 - 10
	0.25 - 6	
	0.25 - 4	
0.2	- 2.5 / 0.2	- 4
	0.25 - 1.5	
	0.25 - 2.5	
W / O	III / O	11.40
III/3	111/2	11/2
1000	1000	1000
8 B	8 C	D
600	600	D
41	41	
24 - 8	24 - 8	-
B	C	D
	-	-
	10	
	МЗ	
	0.7 - 0.8	
	PA/I	

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
DFK-PC 5/ 2-ST-7,62	1716506	10
DFK-PC 5/ 3-ST-7,62	1716519	10
DFK-PC 5/ 4-ST-7,62	1716522	10
DFK-PC 5/ 5-ST-7,62	1716535	10
DFK-PC 5/ 6-ST-7,62	1716548	10
DFK-PC 5/ 7-ST-7,62	1716551	10
DFK-PC 5/ 8-ST-7,62	1716564	10
DFK-PC 5/ 9-ST-7,62	1716577	10
DFK-PC 5/10-ST-7,62	1716580	10
DFK-PC 5/11-ST-7,62	1716593	10
DFK-PC 5/12-ST-7,62	1716603	10



With threaded flange and shield connection on the front of the device, 600 V UL approval

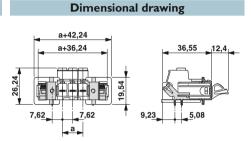


With threaded flange and shield feed-through on the inside of the device, 600 V UL approval

91 us 🕝

Dimensional drawing a+36,24 36,55 12,4

. SLLus 🕝



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
DFK-PC 5/ 2-STF-7,62	1716616	10
DFK-PC 5/ 3-STF-7,62	1716629	10
DFK-PC 5/ 4-STF-7,62	1716632	10
DFK-PC 5/ 5-STF-7,62	1716645	10
DFK-PC 5/ 6-STF-7,62	1716658	10
DFK-PC 5/ 7-STF-7,62	1716661	10
DFK-PC 5/ 8-STF-7,62	1716674	10
DFK-PC 5/ 9-STF-7,62	1716687	10
DFK-PC 5/10-STF-7,62	1716690	10
DFK-PC 5/11-STF-7,62	1716700	10
DFK-PC 5/12-STF-7,62	1716713	10

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: green		
DFK-PC 5/ 2-STF-SH-7,62	1716726	10
DFK-PC 5/ 3-STF-SH-7,62	1716739	10
DFK-PC 5/ 4-STF-SH-7,62	1716742	10
DFK-PC 5/ 5-STF-SH-7,62	1716755	10
DFK-PC 5/ 6-STF-SH-7,62	1716768	10
DFK-PC 5/ 7-STF-SH-7,62	1716771	10
DFK-PC 5/ 8-STF-SH-7,62	1716784	10
DFK-PC 5/ 9-STF-SH-7,62	1716797	10
DFK-PC 5/10-STF-SH-7,62	1716807	10
DFK-PC 5/11-STF-SH-7,62	1716810	10
DFK-PC 5/12-STF-SH-7,62	1716823	10

Plug with a screw connection



- High-capacity plugs with a current carrying capacity of 41 A and a connection capacity of 6 mm², stranded/10 mm², solid
- Unrestricted 600-V-UL approval
- Contact safety, thanks to integrated double steel spring and silver-plated surfaces
- Screw flange (-F) and shield (-SH)
- Can be plugged onto PC 6-16 headers
- CP-PC RD coding profile

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

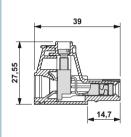
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

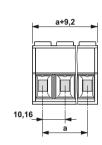


Without screw flange, 600 V UL approval

Accessories		
For all types	Туре	Page
*	Coding profile CP-PC RD Order No. 1701967	38
9	Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	







Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 6 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	L
Technical data in accordance to IEC / DIN VI	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	ļj
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleev	re [mm²]
Insulation coordination	, ,
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group
Inflammability class according to UL 94	

	411) / 10		
-	1000		
	10.16		
0.75 -	10/0.75-6	/ 18 - 8	
	0.5 - 6		
	0.5 - 6		
0.7	75 - 4 / 0.75	- 6	
	0.5 - 2.5		
	0.5 - 4		
III / 3	III/2	II / 2	
1000	1000	1000	
8	8	6	
В	С	D	
600	600	-	
50	50	-	
20 - 8	20 - 8	-	
В	С	D	
	-	-	
-	-	-	
-	-	-	
	12		
	M4		
	1.2 - 1.5		
	PA/I		
V0			

No. of pos.	Dim. a
2	[mm] 10.16
3	20.32
<u>4</u> 5	30.48 40.64
6	50.80
7	60.96
8	71.12

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
PC 6/ 2-ST-10,16	1913507	50
PC 6/ 3-ST-10,16	1913510	50
PC 6/ 4-ST-10,16	1913523	50
PC 6/ 5-ST-10,16	1913536	50
PC 6/ 6-ST-10,16	1913549	50
PC 6/ 7-ST-10,16	1913552	50
PC 6/ 8-ST-10,16	1913565	50



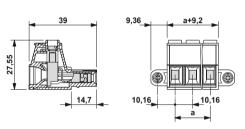
With screw flange, 600 V UL approval



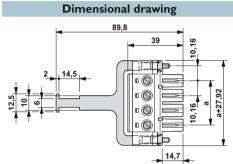
With screw flange and shield, 600 V UL approval

91 us 🕝

Dimensional drawing

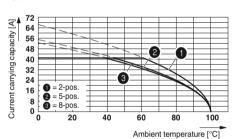


c**91**0s



Representative derating curve

Type: PC 6/..-ST-10,16 with PC 6-16/..-G1-10,16



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: green			
PC 6/ 2-STF-10,16	1913578	50	
PC 6/ 3-STF-10,16	1913581	50	
PC 6/ 4-STF-10,16	1913594	50	
PC 6/ 5-STF-10,16	1913604	50	
PC 6/ 6-STF-10,16	1913617	50	
PC 6/ 7-STF-10,16	1913620	50	
PC 6/ 8-STF-10,16	1913633	50	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
PC 6/ 3-STF-SH-10,16	1973042	50
PC 6/ 4-STF-SH-10,16	1966431	50

PC 6 series plug-in connectors up to 41 A/6 mm², pitch 10.16 mm

Plugs for direct mounting with socket contact



- Plug-in block for direct mounting with a current carrying capacity of 41 A and a connection capacity of 6 mm², stranded / 10 mm², solid
- Unrestricted 600-V-UL approval
- Easy-maintenance PCB connection (PC 6-16 G1) or inverted IPC 16 plugs
- Laterally mounted flange for screw connection in the housing / on the mounting plate

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



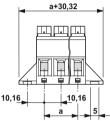
Vertical plug-in direction, can be screwed on, 600 V UL approval

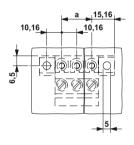
Dimensional drawing





33,9





Technical data	ı
Tasksical data is accordance to IEC / DINI V	DE
Technical data in accordance to IEC / DIN V Rated current / conductor cross section	
	[A] / [mm²]
Rated insulation voltage for pollution degree	2 [V]
Pitch	[mm]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors w	ith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	ve [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation mater	ial group
Inflammability class according to UL 94	

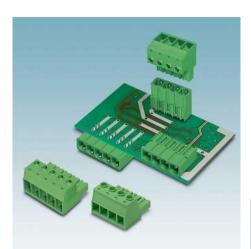
	411) / 10	
	1000	
	10.16	
0.5 - 1	10/0.5-6/	20 - 7
	0.5 - 6	
	0.5 - 6	
0	.5 - 6 / 0.5 -	6
	0.5 - 2.5	
	0.5 - 4	
III/3	III/2	II / 2
1000	1000	1000
8	8	8
В	С	D
600	600	-
50	50	-
20 - 8	20 - 8	-
В	С	D
-	-	-
-	-	-
-	-	-
	12	
	M4	
	1.2 - 1.5	
PA/I		
	V0	
	-	

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
PCU 6/ 2-STD-10,16	1922637	50
PCU 6/ 3-STD-10,16	1922640	50
PCU 6/ 4-STD-10,16	1922653	50
PCU 6/ 5-STD-10,16	1922666	50
PCU 6/ 6-STD-10,16	1922679	50
PCU 6/ 7-STD-10,16	1922682	50
PCU 6/ 8-STD-10,16	1922695	50
PCU 6/ 9-STD-10,16	1922705	50

PC 6 series plug-in connectors up to 41 A/6 mm², pitch 10.16 mm

Plugs with screw and spring connection



- High-capacity plugs with a current carrying capacity of 76 A and a connection capacity of 16 mm², stranded
- Unrestricted 600-V-UL approval
- Maximum contact safety, thanks to an integrated double steel spring
- Further features: screw flange (-STF) and shield (-SH)
- Can be plugged into PC 6-16 headers and IPC 16 plugs
- CP-PC RD coding profile

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

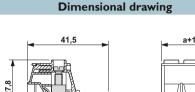
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

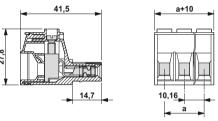


Without screw flange, 600 V UL approval



LCA CB





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 16 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	
	_
Technical data in accordance to IEC / DIN VD	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	l group
Inflammability class according to UL 94	

	76¹) / 16	
	1000	
	10.16	
0.75 - 16	0.75 - 16	5 / 18 - 6
	0.5 - 16 0.5 - 16	
	0.5 - 16	
0.75	5 - 6 / 0.75	- 6
0.73	0.5 - 4	- 0
	0.5 - 6	
	0.0 0	
III/3	III/2	11/2
1000	1000	1000
8	8	6
В	С	D
600	600	-
55	55	-
20 - 6	20 - 6	-
В	С	D
	-	-
	-	-
-	-	-
	10	
	12 M4	
	1.7 - 1.8	
	PA/I	
	V0	

		Туре
No. of pos.	Dim. a [mm]	Pitch 10.16 mm, co
2	10.16	PC 16/ 2-ST-10,16
3	20.32	PC 16/ 3-ST-10,16
4	30.48	PC 16/ 4-ST-10,16
5	40.64	PC 16/ 5-ST-10,16
6	50.80	PC 16/ 6-ST-10,16
7	60.96	PC 16/ 7-ST-10,16
8	71.12	PC 16/ 8-ST-10,16
9	81.28	PC 16/ 9-ST-10,16

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
PC 16/ 2-ST-10,16	1967375	50
PC 16/ 3-ST-10,16	1967388	50
PC 16/ 4-ST-10,16	1967391	50
PC 16/ 5-ST-10,16	1967401	50
PC 16/ 6-ST-10,16	1967414	50
PC 16/ 7-ST-10,16	1967427	50
PC 16/ 8-ST-10,16	1967430	50
PC 16/ 9-ST-10,16	1967443	50



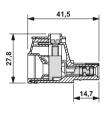
With screw flange, 600 V UL approval

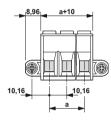


With screw flange and shield, 600 V UL approval

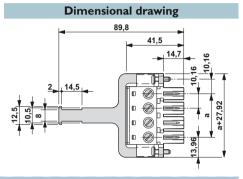
CCA CB





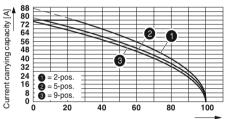


c Sus SEEN CCA CB

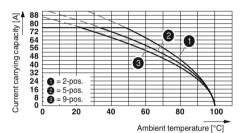


Representative derating curves of the above-mentioned plugs

Type: PC 16/..-ST-10,16 with PC 6-16/..-G1-10,16





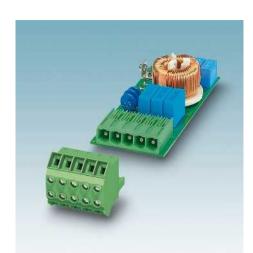


Type: PC 16/..-ST-10,16 with IPC 16/..-ST-10,16

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
PC 16/ 2-STF-10,16	1967456	50
PC 16/ 3-STF-10,16	1967469	50
PC 16/ 4-STF-10,16	1967472	50
PC 16/ 5-STF-10,16	1967485	50
PC 16/ 6-STF-10,16	1967498	50
PC 16/ 7-STF-10,16	1967508	50
PC 16/ 8-STF-10,16	1967511	50
PC 16/ 9-STF-10,16	1967524	50

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
PC 16/ 3-STF-SH-10,16	1737530	50
PC 16/ 4-STF-SH-10,16	1970359	50

Plugs with screw and spring connection



- Plug with double connection and a current carrying capacity of 76 A
- Simple potential distribution through two terminal points per contact
- Unrestricted 600-V-UL approval
- Maximum contact safety, thanks to an integrated double steel spring
- CP-PC RD coding profile

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval

Accessories For all types Туре Page Coding profile 38 1701967 Screwdriver SZS 1,0 x 4,0 Order No. 1205066 801 Marker strips SK 5,0 WH:REEL Order No. 0805221 Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 Order No.

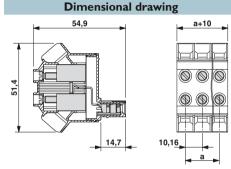
1212034

Order No. 1207983

Crimping pliers for 10 to 16 mm²

CRIMPFOX 16 S

. FLL us



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 16 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded	mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	

	=00 / 10			
	761) / 16			
	1000			
	10.16			
	10.10			
0.75 - 1	6 / 0.75 - 16	/ 18 - 6		
0.70	0.5 - 16	7 10 0		
	0.5 - 16			
	0.0 10			
0.7	5-6/0.75	- 6		
	0.5 - 4			
	0.5 - 6			
	0.0			
III/3	III/2	11/2		
1000	1000	1000		
8	8	6		
В	С	D		
600	600	-		
60	60	-		
20 - 4	20 - 4	-		
В	С	D		
	-	-		
-	-	-		
-	-	-		
18				
M4				
1.7 - 1.8				
PA/I				
	V0			

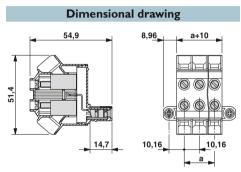
Ту		
Pit	Dim. a [mm]	No. of pos.
TP	10.16	2
TP	20.32	3
TP	30.48	4
TP	40.64	5
TP	50.80	6
TP	60.96	7
TP	71.12	8
TP	81.28	9

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
TPC 16/ 2-ST-10,16	1715170	20
TPC 16/ 3-ST-10,16	1715183	20
TPC 16/ 4-ST-10,16	1715196	20
TPC 16/ 5-ST-10,16	1715206	20
TPC 16/ 6-ST-10,16	1715219	20
TPC 16/ 7-ST-10,16	1715222	20
TPC 16/ 8-ST-10,16	1715235	20
TPC 16/ 9-ST-10,16	1715248	20



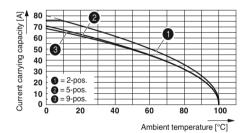
With screw flange, 600 V UL approval





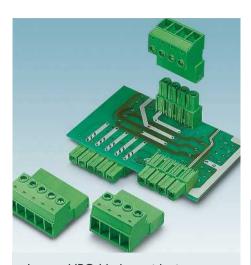
Representative derating curve

Type: TPC 16/....-ST-10,16 with PC 6-16/...-G1-10,16



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
TPC 16/ 2-STF-10,16	1715251	20
TPC 16/ 3-STF-10,16	1715264	20
TPC 16/ 4-STF-10,16	1715277	20
TPC 16/ 5-STF-10,16	1715280	20
TPC 16/ 6-STF-10,16	1715293	20
TPC 16/ 7-STF-10,16	1715303	20
TPC 16/ 8-STF-10,16	1715316	20
TPC 16/ 9-STF-10,16	1715329	50

Plugs with screw and spring connection



- Inverted IPC 16 plugs with pin contacts for touch-proof device outputs (with IPC 16 G) or free-hanging cable/cable connections
- Unrestricted 600-V-UL approval
- Can be plugged into PC 16 plugs or inverted IPC 16 headers
- The SH versions provide a professional EMC shield and an optional strain relief

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

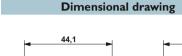
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

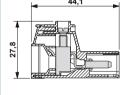


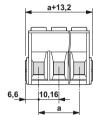
Without screw flange, 600 V UL approval

Accessories For all types Туре Page Coding profile 38 Order No. 1701967 Screwdriver SZS 1,0 x 4,0 Order No. 1205066 801 Marker strips SK 5,0 WH:REEL Order No. 0805221 Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6 Order No. 1212034 Crimping pliers for 10 to 16 mm² CRIMPFOX 16 S Order No. 1207983

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Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 16 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	įj
. ,	mm ²]/[mm ²]/AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with t	he same cross section)
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	

	76¹) / 16		
	1000		
	10.16		
0.75 - 1	6 / 0.75 - 16	6 / 18 - 6	
	0.5 - 16		
	0.5 - 16		
0.	75 - 6 / 0.75	- 6	
	0.5 - 4		
	0.5 - 6		
III/3	III/2	II / 2	
1000	1000	1000	
8	8	6	
В	С	D	
600	600	-	
55	55	-	
20 - 6	20 - 6	-	
В	С	D	
_	-	-	
	-	-	
-	-	-	
	12		
M4			
1.7 - 1.8			
	PA/I		
	V0		

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: green			
IPC 16/ 2-ST-10,16	1969373	50	
IPC 16/ 3-ST-10,16	1969386	50	
IPC 16/ 4-ST-10,16	1969399	50	
IPC 16/ 5-ST-10,16	1969409	50	
IPC 16/ 6-ST-10,16	1969412	50	
IPC 16/ 7-ST-10,16	1969425	50	
IPC 16/ 8-ST-10,16	1969438	50	
IPC 16/ 9-ST-10,16	1969441	50	



With screw flange, 600 V UL approval



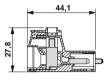
With screw flange and shield, 600 V UL approval

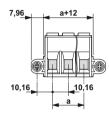
91 US 🕑

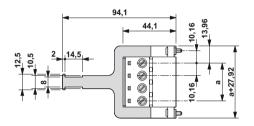
Dimensional drawing

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Dimensional drawing



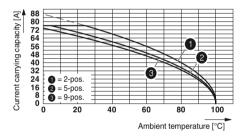


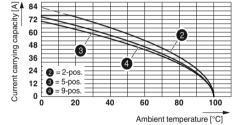


Representative derating curves of the above-mentioned plugs

Type: IPC 16/..-ST-10,16 with DFK-IPC 16/..-G-10,16







Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
IPC 16/ 2-STF-10,16	1969454	50
IPC 16/ 3-STF-10,16	1969467	50
IPC 16/ 4-STF-10,16	1969470	50
IPC 16/ 5-STF-10,16	1969483	50
IPC 16/ 6-STF-10,16	1969496	50
IPC 16/ 7-STF-10,16	1969506	50
IPC 16/ 8-STF-10,16	1969519	50
IPC 16/ 9-STF-10,16	1969522	50

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Pitch 10.16 mm, color: green				
IPC 16/ 3-STF-SH-10,16	1737323	50		
IPC 16/ 4-STF-SH-10,16	1970346	50		
IPC 16/ 7-STF-SH-10,16	1737336	50		

Plugs with screw and spring connection



- Inverted IPC 16 plugs with pin contacts for free-hanging cable/cable connections
- Increased protection against vibration, thanks to screw-on STGF plugs with a threaded flange (can be plugged onto PC 16 plugs)
- Unrestricted 600-V-UL approval
- The SH versions provide a professional EMC shield and an optional strain relief

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

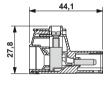


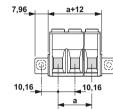
With threaded flange, 600 V UL approval





Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 16 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	·
Tightening torque	[Nm]
Type of insulation material / insulation materia	l group
Inflammability class according to UL 94	

	76¹) / 16	
-	1000	
	1000	
	10.16	
0.75 - 1	6 / 0.75 - 16	1/18-6
- 00	0.5 - 16	,,,,,,
	0.5 - 16	
	0.0 10	
0.7	75 - 6 / 0.75	- 6
	0.5 - 4	
	0.5 - 6	
	0.5 - 0	
III/3	III/2	II / 2
1000	1000	1000
8	8	6
В	C	D
600	600	-
55	55	-
20 - 6	20 - 6	
В	C	D
-	-	-
	-	
	-	
	12	
	M4	
-	1.7 - 1.8	
	PA/I	
-	V0	

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

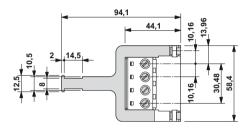
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: green			
IPC 16/ 2-STGF-10,16	1975817	50	
IPC 16/ 3-STGF-10,16	1975820	50	
IPC 16/ 4-STGF-10,16	1975833	50	
IPC 16/ 5-STGF-10,16	1975846	50	
IPC 16/ 6-STGF-10,16	1975859	50	
IPC 16/ 7-STGF-10,16	1975862	50	
IPC 16/ 8-STGF-10,16	1975875	50	
IPC 16/ 9-STGF-10,16	1975888	50	



With threaded flange and shield, 600 V UL approval

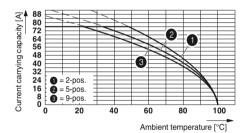
CCA CB

Dimensional drawing



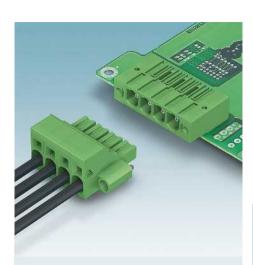
Representative derating curve

Type: PC 16/..-ST-10,16 with IPC 16/..-ST-10,16



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: green			
IPC 16/ 4-STGF-SH-10,16	1975891	50	

Plugs with screw and spring connection



- Push-in spring connection plug with a current carrying capacity of 76 A
- Fast connection technology, thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval
- Maximum contact safety, thanks to an integrated double steel spring
- The SH versions provide a professional shield and an optional strain relief
- CP-PC RD coding profile

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval

Dimensional drawing





Order No. 1207983

No. of pos.

a+10,16 5,08 10,16

Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 16 mm² Reduction factor = 0.8 Number of positions = see diagram

Technical data		
Technical data in accordance to IEC / DIN VD	E	
Rated current / conductor cross section	[A] / [mm ²]	
Rated insulation voltage for pollution degree 2	[V]	
Pitch	[mm]	
Connection capacity	lıııııl	
Solid & multi-strand / stranded	[mm ²]/[mm ²]/AWG	
Stranded with ferrules without plastic sleeve	[mm ²]	
Stranded with ferrules without plastic sleeve	[mm²]	
Multi-conductor connection capacity (two conductors with		
Solid & multi-strand / stranded	[mm ²]	
Stranded with ferrules without plastic sleeve	[mm²]	
Stranded with TWIN ferrule with plastic sleeve		
Insulation coordination	, [!!!!!-]	
Surge voltage category / pollution degree		
Rated insulation voltage	IV1	
Rated surge voltage	[kV]	
Approval data (UL/CUL)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
Approval data (CSA)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
General data		
Stripping length	[mm]	
Type of insulation material / insulation materia		
Inflammability class according to UL 94	<u> </u>	
,		

	761) / 16	
	76¹) / 16 1000	
	1000	
	10.16	
	10.10	
0.75 - 1	6 / 0.75 - 16	18-4
0.75 - 1	0.75 - 16	77 10 - 4
	0.75 - 10	
	0.73 - 10	
	-/-	
0.75 - 4		
	0.75 - 4	
III/3	III/2	II/2
1000	1000	1000
8	8	6
В	C	D
600	600	-
66	66	
20 - 4	20 - 4	
В	C	D
-	-	-
		-
		-
	18	
	PA/I	
	V0	
	. 0	

	Ordering date	ta	
	Туре	Order No.	Pcs. / Pkt.
Dim. a [mm]	Pitch 10.16 mm, color: green		
10.16	SPC 16/ 2-ST-10,16	1711268	50
20.32	SPC 16/ 3-ST-10,16	1711271	50
30.48	SPC 16/ 4-ST-10,16	1711284	50
40.64	SPC 16/ 5-ST-10,16	1711297	50
50.80	SPC 16/ 6-ST-10,16	1711307	50
60.96	SPC 16/ 7-ST-10,16	1711310	50
71.12	SPC 16/ 8-ST-10,16	1711323	50
81.28	SPC 16/ 9-ST-10,16	1711336	50



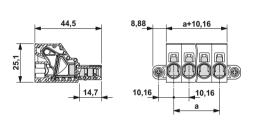
With screw flange, 600 V UL approval



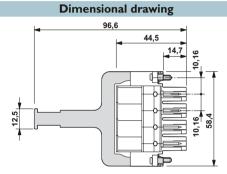
With screw flange and shield, 600 V UL approval

CCA CB

Dimensional drawing

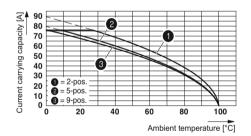


c Sus SEEN CCA CB scheme



Representative derating curve

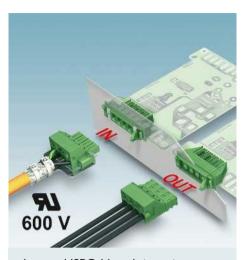
Type: SPC 16/...-ST-10,16 with PC 6-16/...-G1-10,16



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: green			
SPC 16/ 2-STF-10,16	1711378	50	
SPC 16/ 3-STF-10,16	1711381	50	
SPC 16/ 4-STF-10,16	1711394	50	
SPC 16/ 5-STF-10,16	1711404	50	
SPC 16/ 6-STF-10,16	1711417	50	
SPC 16/ 7-STF-10,16	1711420	50	
SPC 16/ 8-STF-10,16	1711433	50	
SPC 16/ 9-STF-10,16	1711446	50	

Ordering data					
Type Order No. Pcs. / P					
Pitch 10.16 mm, color: green					
SPC 16/ 4-STF-SH-10,16	1711488	50			

Plugs with screw and spring connection



- Inverted ISPC 16 push-in spring connection plugs with pin contact for touchproof device outputs (with IPC 16 G) or free-hanging cable/cable connections
- Unrestricted 600-V-UL approval
- Can be plugged into (S)PC 16 plugs or inverted IPC 16 headers
- Increased vibration protection, thanks to screw-on STF plug with screw flange
- STGF plugs with threaded flange for free hanging cable/cable connections

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

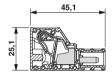
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

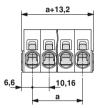


Without screw flange, 600 V UL approval

LCA CB

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 16 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
*	Coding profile CP-PC RD Order No. 1701967	38	
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520		
9	Marker strips SK 5,0 WH:REEL Order No. 0805221	801	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
ħ	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983		

PA/I

V0

Technical data				
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm ²]		761) / 16	
Rated insulation voltage for pollution degree 2	[V]		1000	
Pitch	[mm]		10.16	
Connection capacity				
	²] / [mm ²] / AWG	0.75 - 1	6 / 0.75 - 16	6 / 18 - 4
Stranded with ferrules without plastic sleeve	[mm ²]		0.75 - 16	
Stranded with ferrules with plastic sleeve	[mm ²]		0.75 - 10	
Multi-conductor connection capacity (two conductors with the s	ame cross section)			
Solid & multi-strand / stranded	[mm ²]		-/-	
Stranded with ferrules without plastic sleeve	[mm ²]		-	
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		0.75 - 4	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	66	66	-
Connection capacity AWG	AWG	20 - 4	20 - 4	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]		18	

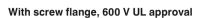
No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: green			
ISPC 16/ 2-ST-10,16	1748545	50	
ISPC 16/ 3-ST-10,16	1748558	50	
ISPC 16/ 4-ST-10,16	1748561	50	
ISPC 16/ 5-ST-10,16	1748574	50	
ISPC 16/ 6-ST-10,16	1748587	50	
ISPC 16/ 7-ST-10,16	1748590	50	
ISPC 16/ 8-ST-10,16	1748600	50	
ISPC 16/ 9-ST-10,16	1748613	50	

Inflammability class according to UL 94

Type of insulation material / insulation material group







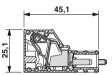
With threaded flange, 600 V UL approval

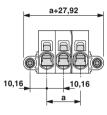
Dimensional drawing

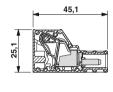


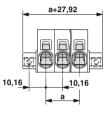
Dimensional drawing

CCA CB



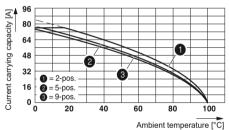




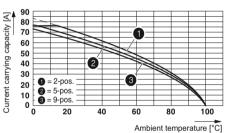


Representative derating curves of the above-mentioned plugs Type: ISPC 16/...-ST-10,16 with SPC 16/...-ST-10,16

Type: ISPC 16/...-ST-10,16 with IPC 16/...-G-10,16







Ordering data			
	Туре	Order No.	Pcs. / Pkt.
	Pitch 10.16 mm, color: green		
	ISPC 16/ 2-STF-10,16	1748626	50
	ISPC 16/ 3-STF-10,16	1748639	50
	ISPC 16/ 4-STF-10,16	1748642	50
	ISPC 16/ 5-STF-10,16	1748655	50
	ISPC 16/ 6-STF-10,16	1748668	50
	ISPC 16/ 7-STF-10,16	1748671	50
	ISPC 16/ 8-STF-10,16	1748684	50
	ISPC 16/ 9-STF-10,16	1748697	50

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: green			
ISPC 16/ 2-STGF-10,16	1748707	50	
ISPC 16/ 3-STGF-10,16	1748710	50	
ISPC 16/ 4-STGF-10,16	1748723	50	
ISPC 16/ 5-STGF-10,16	1748736	50	
ISPC 16/ 6-STGF-10,16	1748749	50	
ISPC 16/ 7-STGF-10,16	1748752	50	
ISPC 16/ 8-STGF-10,16	1748765	50	
ISPC 16/ 9-STGF-10,16	1748778	50	

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Headers with pin contact



- PC 6-16 headers for use in combination with all PC 6 and PC 16 plugs
- PCB-PCB connections by using IPC 16 headers
- G1U versions for a solder-in direction rotated by 180°
- Shroud PCB-SHIELD for a professional EMC shield connection
- Threaded flange G1F (also for screw connection on the PCB or in the device)
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

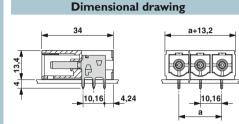
Mounting screw for PC-6-16/...-G1F-10,16 and PC 6-16/...-G1FU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without threaded flange





Accessories		
For all types	Туре	Page
*	Coding profile CP-PC RD Order No. 1701967	38
*	Coding pin CS-IPC 16/6 Order No. 1970016	38
7	Marker strips SK 5,0 WH:REEL Order No. 0805221	801



Shroud POWER COMBICON PCB-SHIELD Order No. 1968387

No. of pos.

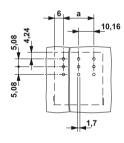
6

8

Dim. a [mm] 10.16 20.32 30.48 40.64

50.80 60.96

71.12 81.28



Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
·	

	76¹)	
	1000	
	10.16	
III/3	III/2	II / 2
1000	1000	1000
8	8	6
В	С	D
300	300	600
66	66	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1.1	7 / 1 x 1.2 m	nm

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: green			
PC 6-16/ 2-G1-10,16	1998933	50	
PC 6-16/ 3-G1-10,16	1998946	50	
PC 6-16/ 4-G1-10,16	1998959	50	
PC 6-16/ 5-G1-10,16	1998962	50	
PC 6-16/ 6-G1-10,16	1998975	50	
PC 6-16/ 7-G1-10,16	1998988	50	
PC 6-16/ 8-G1-10,16	1998991	50	
PC 6-16/ 9-G1-10,16	1996391	50	



With threaded flange



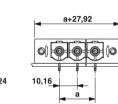
Rotated 180°, without threaded flange



Rotated 180°, with threaded flange

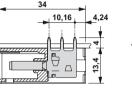
CCA CB

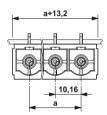
Dimensional drawing

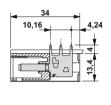


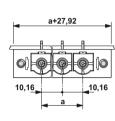
CCA CB



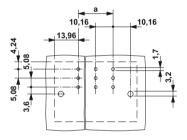






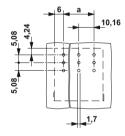


Drilling diagram

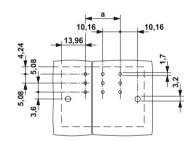




Drilling diagram



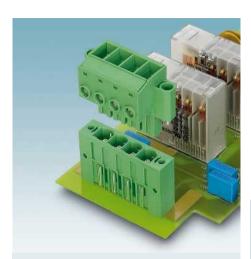
Ordering data			
	Туре	Order No.	Pcs. / Pkt.
	Pitch 10.16 mm, color: green		
	PC 6-16/ 2-G1U-10,16	1996236	50
	PC 6-16/ 3-G1U-10,16	1996249	50
	PC 6-16/ 4-G1U-10,16	1996252	50
	PC 6-16/ 5-G1U-10,16	1996265	50
	PC 6-16/ 6-G1U-10,16	1996278	50
	PC 6-16/ 7-G1U-10,16	1996281	50
	PC 6-16/ 8-G1U-10,16	1996294	50
	PC 6-16/ 9-G1U-10,16	1996304	50



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
PC 6-16/ 2-G1FU-10,16	1996317	50
PC 6-16/ 3-G1FU-10,16	1996320	50
PC 6-16/ 4-G1FU-10,16	1996333	50
PC 6-16/ 5-G1FU-10,16	1996346	50
PC 6-16/ 6-G1FU-10,16	1996359	50
PC 6-16/ 7-G1FU-10,16	1996362	50
PC 6-16/ 8-G1FU-10,16	1996375	50
PC 6-16/ 9-G1FU-10,16	1996388	50

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Headers with pin contact



- Vertical PCV 6-16 headers for use in combination with all PC 6 and PC 16
- PCB-PCB connections by using IPC 16 headers
- Threaded flange G1F (also for screw connection on the PCB or in the device)
- CS-IPC 16/6 to serve as an anti-rotation element during assembly
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

Mounting screw for PCV 6-16/...-G1F-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to sol-

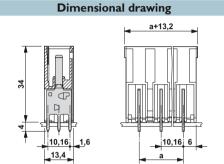
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

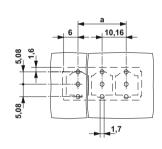


Without threaded flange

LE CCA CB







Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	76¹)	
	1000	
	10.16	
III/3	III/2	11/2
1000	1000	1000
6	8	8
В	С	D
300	300	600
66	66	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1.3	7 / 1 x 1.2 m	nm

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

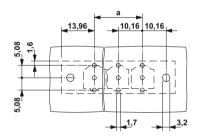
Ordering data			
	Туре	Order No.	Pcs. / Pkt.
	Pitch 10.16 mm, color: green		
	PCV 6-16/ 2-G1-10,16	1998784	50
	PCV 6-16/ 3-G1-10,16	1998797	50
	PCV 6-16/ 4-G1-10,16	1998807	50
	PCV 6-16/ 5-G1-10,16	1998810	50
	PCV 6-16/ 6-G1-10,16	1998823	50
	PCV 6-16/ 7-G1-10,16	1998836	50
	PCV 6-16/ 8-G1-10,16	1998849	50
	PCV 6-16/ 9-G1-10,16	1998852	50



With threaded flange

CCA CB

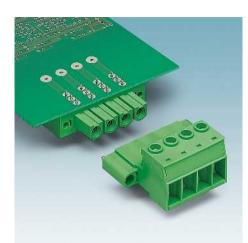
Dimensional drawing a+27,92 0 10,16 10,16



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
PCV 6-16/ 2-G1F-10,16	1998865	50
PCV 6-16/ 3-G1F-10,16	1998878	50
PCV 6-16/ 4-G1F-10,16	1998881	50
PCV 6-16/ 5-G1F-10,16	1998894	50
PCV 6-16/ 6-G1F-10,16	1998904	50
PCV 6-16/ 7-G1F-10,16	1998917	50
PCV 6-16/ 8-G1F-10,16	1998920	50
PCV 6-16/ 9-G1F-10,16	1996414	50

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Headers with socket contact



- An inverted IPC 16 header to implement a touch-proof PCB output or a PCB-PCB-connection (in combination with PC 6-16 base strips)
- GU versions for a solder-in direction rotated by 180°
- Threaded flange GF (also for screw connection on the PCB or in the device)
- Shroud PCB-SHIELD (EMC connection)
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

Mounting screw for IPC 16/...-GF-10,16 and IPC 16/...-GFU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without threaded flange

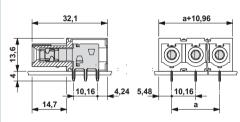
CCA CB

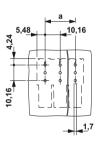
Accessories			
For all types	Туре	Page	
*	Coding profile CP-PC RD Order No. 1701967	38	
**	Coding pin CS-IPC 16/6 Order No. 1970016	38	
7	Marker strips SK 5,0 WH:REEL Order No. 0805221	801	
Only for IPC 16/G(F)U-10,6			



POWER COMBICON PCB-SHIELD Order No. 1968387

Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]
<u> </u>	

	76 ¹)	
	1000	
	10.16	
III/3	III/2	11/2
1000	1000	1000
8	8	8
В	С	D
300	300	600
66	66	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.7 / 0.8 x 1.	2

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
IPC 16/ 2-G-10,16	1969535	50
IPC 16/ 3-G-10,16	1969548	50
IPC 16/ 4-G-10,16	1969551	50
IPC 16/ 5-G-10,16	1969564	50
IPC 16/ 6-G-10,16	1969577	50
IPC 16/ 7-G-10,16	1969580	50
IPC 16/ 8-G-10,16	1969593	50
IPC 16/ 9-G-10,16	1969603	50



With threaded flange



Rotated 180°, without threaded flange

Dimensional drawing



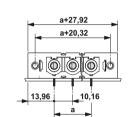
Rotated 180°, with threaded flange

CCA CB

10,16

14,7

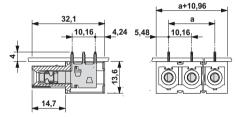
Dimensional drawing

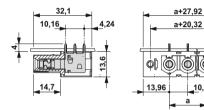


CCA CB

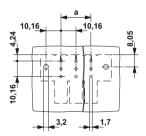


Dimensional drawing



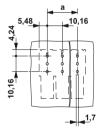


Drilling diagram

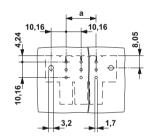




Drilling diagram



Ordering data			
	Туре	Order No.	Pcs. / Pkt.
	Pitch 10.16 mm, color: green		
	IPC 16/ 2-GU-10,16	1969852	50
	IPC 16/ 3-GU-10,16	1969865	50
	IPC 16/ 4-GU-10,16	1969878	50
	IPC 16/ 5-GU-10,16	1969881	50
	IPC 16/ 6-GU-10,16	1969894	50
	IPC 16/ 7-GU-10,16	1969904	50
	IPC 16/ 8-GU-10,16	1969917	50
	IPC 16/ 9-GU-10,16	1969920	50



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Pitch 10.16 mm, color: green			
IPC 16/ 2-GFU-10,16	1969933	50	
IPC 16/ 3-GFU-10,16	1969946	50	
IPC 16/ 4-GFU-10,16	1969959	50	
IPC 16/ 5-GFU-10,16	1969962	50	
IPC 16/ 6-GFU-10,16	1969975	50	
IPC 16/ 7-GFU-10,16	1969988	50	
IPC 16/ 8-GFU-10,16	1969991	50	
IPC 16/ 9-GFU-10,16	1970003	50	

Headers with socket contact



- An inverted IPC 16 header in a vertical design to implement a touch-proof PCB output or a PCB-PCB connection (in combination with PC 6-16 base strips)
- Integrated double steel spring
- Threaded flange GF (also for screw connection on the PCB or in the device)
- CS-IPC 16/6 to serve as an anti-rotation element during assembly
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

Mounting screw for IPCV 16/...-GF-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

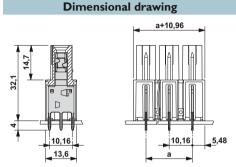
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

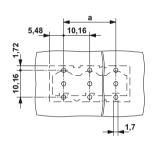


Without threaded flange



LE CCA CB





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	76¹)	
	1000	
	10.16	
III/3	III/2	II / 2
1000	1000	1000
8	8	8
В	С	D
300	300	600
66	66	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.7 / 0.8 x 1.	2

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

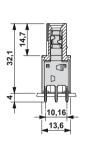
Ordering data			
	Туре	Order No.	Pcs. / Pkt.
	Pitch 10.16 mm, color: green		
	IPCV 16/ 2-G-10,16	1969690	50
	IPCV 16/ 3-G-10,16	1969700	50
	IPCV 16/ 4-G-10,16	1969713	50
	IPCV 16/ 5-G-10,16	1969726	50
	IPCV 16/ 6-G-10,16	1969739	50
	IPCV 16/ 7-G-10,16	1969742	50
	IPCV 16/ 8-G-10,16	1969755	50
	IPCV 16/ 9-G-10,16	1969768	50

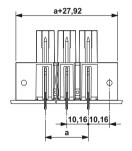


With threaded flange

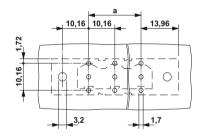
CCA CB

Dimensional drawing





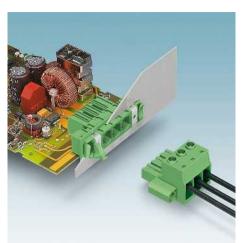
Drilling diagram



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: green		
IPCV 16/ 2-GF-10,16	1969771	50
IPCV 16/ 3-GF-10,16	1969784	50
IPCV 16/ 4-GF-10,16	1969797	50
IPCV 16/ 5-GF-10,16	1969807	50
IPCV 16/ 6-GF-10,16	1969810	50
IPCV 16/ 7-GF-10,16	1969823	50
IPCV 16/ 8-GF-10,16	1969836	50
IPCV 16/ 9-GF-10,16	1969849	50

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- Feed-through headers for use in combination with all PC 6 and PC 16 plugs
- To solder onto the PCB
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be executed on the housing wall
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

Mounting screw for DFK-PC 6-16/...-G-10,16 and DFK-PC 6-16/...-GU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

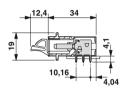
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

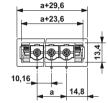


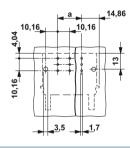
Without threaded flange

LE CCA CB

Dimensional drawing







Accessories			
For all types	Туре	Page	
*	Coding profile CP-PC RD Order No. 1701967	38	
**	Coding pin CS-IPC 16/6 Order No. 1970016	38	
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449		
3	Marker strips SK 5,0 WH:REEL Order No. 0805221	801	

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	-
Drill hole diameter / pin dimensions	[mm]

	76¹)	
	1000	
	10.16	
	10.16	
III/3	III/2	11/2
1000	1000	1000
8	8	6
В	С	D
300	300	600
66	66	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1.7	/ 1.0 x 1.2 r	nm

Тур		
10.1 wall	Dim. a [mm]	No. of pos.
DFK	10.16	2
DFK	20.32	3
DFK	30.48	4
DFK	40.64	5
DFK	50.80	6
DFK	60.96	7
DFK	71.12	8
DFK	81.28	9

Ordering data		
Туре	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		housing
DFK-PC 6-16/ 2-G-10,16	1701456	10
DFK-PC 6-16/ 3-G-10,16	1701469	10
DFK-PC 6-16/ 4-G-10,16	1701472	10
DFK-PC 6-16/ 5-G-10,16	1701485	10
DFK-PC 6-16/ 6-G-10,16	1701498	10
DFK-PC 6-16/ 7-G-10,16	1701508	10
DFK-PC 6-16/ 8-G-10,16	1701511	10
DFK-PC 6-16/ 9-G-10,16	1701524	10

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



With threaded flange and shield connection on the front of the device



Rotated 180°, without threaded flange



Rotated 180°, with threaded flange and shield connection on the front of the device

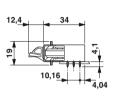
CCA CB

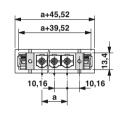
Dimensional drawing

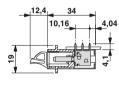




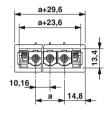
Dimensional drawing

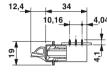


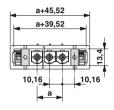




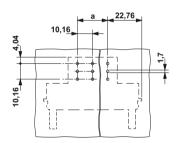
CCA CB





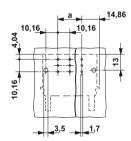


Drilling diagram

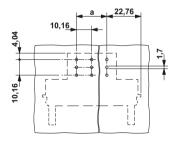


Ordering data		
Туре	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-PC 6-16/ 2-GF-10,16	1701537	10
DFK-PC 6-16/ 3-GF-10,16	1701540	10
DFK-PC 6-16/ 4-GF-10,16	1701553	10
DFK-PC 6-16/ 5-GF-10,16	1701566	10
DFK-PC 6-16/ 6-GF-10,16	1701579	10
DFK-PC 6-16/ 7-GF-10,16	1701582	10
DFK-PC 6-16/ 8-GF-10,16	1701595	10
DFK-PC 6-16/ 9-GF-10,16	1701605	10

Drilling diagram



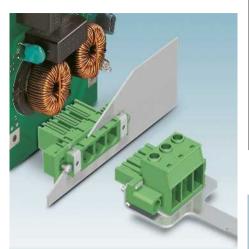
Ordering data		
Туре	Order No.	Pcs. / Pkt
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-PC 6-16/ 2-GU-10,16	1701618	10
DFK-PC 6-16/ 3-GU-10,16	1701621	10
DFK-PC 6-16/ 4-GU-10,16	1701634	10
DFK-PC 6-16/ 5-GU-10,16	1701647	10
DFK-PC 6-16/ 6-GU-10,16	1701650	10
DFK-PC 6-16/ 7-GU-10,16	1701663	10
DFK-PC 6-16/ 8-GU-10,16	1701676	10
DFK-PC 6-16/ 9-GU-10,16	1701689	10



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-PC 6-16/ 2-GFU-10,16	1701692	10
DFK-PC 6-16/ 3-GFU-10,16	1701702	10
DFK-PC 6-16/ 4-GFU-10,16	1701715	10
DFK-PC 6-16/ 5-GFU-10,16	1701728	10
DFK-PC 6-16/ 6-GFU-10,16	1701731	10
DFK-PC 6-16/ 7-GFU-10,16	1701744	10
DFK-PC 6-16/ 8-GFU-10,16	1701757	10
DFK-PC 6-16/ 9-GFU-10,16	1701760	10

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- Feed-through headers for use in combination with all PC 6 and PC 16 plugs
- To solder onto the PCB
- In SH versions, shielding functions can be executed on the inside of the device
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw con-
- Wall thicknesses from 1 mm to 3 mm
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

Mounting screw for DFK-PCV 6-16/...-G-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to sol-

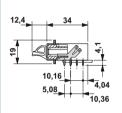
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

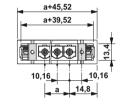


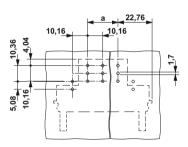
Horizontal, with threaded flange and shield feed-through on the inside of the device

LCA CB

Dimensional drawing







Α	ccessories	
For all types	Page	
*	Coding profile CP-PC RD Order No. 1701967	38
**	Coding pin CS-IPC 16/6 Order No. 1970016	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
9	Marker strips SK 5,0 WH:REEL Order No. 0805221	801

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	76¹)	
	1000	
	10.10	
	10.16	
III. / O	W / O	11.70
III/3	III/2	11/2
1000	1000	1000
8	8	6
В	С	D
300	300	600
66	66	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1.7	/ 1.0 x 1.2 r	nm

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-PC 6-16/ 2-GF-SH-10,16	1701935	10
DFK-PC 6-16/ 3-GF-SH-10,16	1701948	10
DFK-PC 6-16/ 4-GF-SH-10,16	1701951	10
DFK-PC 6-16/ 5-GF-SH-10,16	1701964	10
DFK-PC 6-16/ 6-GF-SH-10,16	1701977	10
DFK-PC 6-16/ 7-GF-SH-10,16	1701980	10
DFK-PC 6-16/ 8-GF-SH-10,16	1701993	10
DFK-PC 6-16/ 9-GF-SH-10,16	1702002	10



Horizontal, rotated 180°, with threaded flange and shield feed-through on the inside of the device



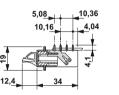
Vertical, without threaded flange

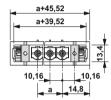


Vertical, with threaded flange and shield connection on the front of the device

CCA CB

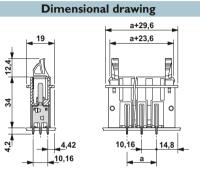
Dimensional drawing



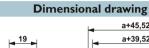


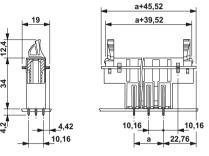
CCA CB



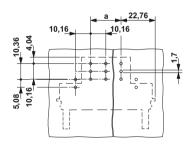


CCA CB



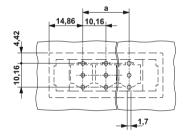


Drilling diagram

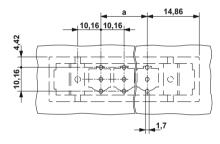


Ordering data		
Туре	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-PC 6-16/ 2-GFU-SH-10,16	1702015	10
DFK-PC 6-16/ 3-GFU-SH-10,16	1702028	10
DFK-PC 6-16/ 4-GFU-SH-10,16	1702031	10
DFK-PC 6-16/ 5-GFU-SH-10,16	1702044	10
DFK-PC 6-16/ 6-GFU-SH-10,16	1702057	10
DFK-PC 6-16/ 7-GFU-SH-10,16	1702060	10
DFK-PC 6-16/ 8-GFU-SH-10,16	1702073	10
DFK-PC 6-16/ 9-GFU-SH-10,16	1702086	10

Drilling diagram



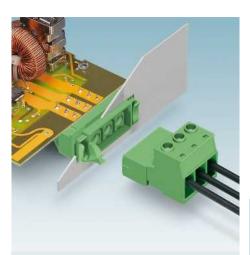
Ordering data		
Туре	Order No.	Pcs. / Pk
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-PCV 6-16/ 2-G-10,16	1702099	10
DFK-PCV 6-16/ 3-G-10,16	1702109	10
DFK-PCV 6-16/ 4-G-10,16	1702112	10
DFK-PCV 6-16/ 5-G-10,16	1702125	10
DFK-PCV 6-16/ 6-G-10,16	1702138	10
DFK-PCV 6-16/ 7-G-10,16	1702141	10
DFK-PCV 6-16/ 8-G-10,16	1702154	10
DFK-PCV 6-16/ 9-G-10,16	1702167	10



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-PCV 6-16/ 2-GF-10,16	1702251	10
DFK-PCV 6-16/ 3-GF-10,16	1702264	10
DFK-PCV 6-16/ 4-GF-10,16	1702277	10
DFK-PCV 6-16/ 5-GF-10,16	1702280	10
DFK-PCV 6-16/ 6-GF-10,16	1702293	10
DFK-PCV 6-16/ 7-GF-10,16	1702303	10
DFK-PCV 6-16/ 8-GF-10,16	1702316	10
DFK-PCV 6-16/ 9-GF-10,16	1702329	10

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- An inverted feed-through header to implement a touch-proof PCB output (in combination with IPC 16 ST)
- To solder onto the PCB
- A snap-lock mechanism to be operated without tools or a classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be executed on the housing wall
- Suitable for 600 V UL when used in combination with IPC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

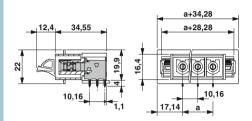
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

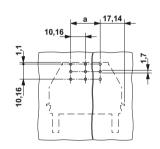


Without threaded flange

LE CCA CB

Dimensional drawing





Type Coding profile	Page
Coding profile	
CP-PC RD Order No. 1701967	38
Coding pin CS-IPC 16/6 Order No. 1970016	38
Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
Marker strips SK 5,0 WH:REEL Order No. 0805221	801
	1701967 Coding pin CS-IPC 16/6 Order No. 1970016 Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449 Marker strips SK 5,0 WH:REEL Order No.

Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mana]
	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	-
Drill hole diameter / pin dimensions	[mm]

	76¹)	
	1000	
	10.10	
	10.16	
III/3	III/2	II / 2
1000	1000	1000
8	8	6
В	С	D
300	300	600
66	66	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	DA /I	
	PA/I V0	
- 1	.7 / 0.8 x 1.	0

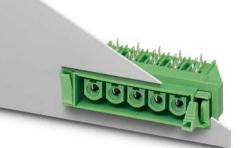
	D:
No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data		
Туре	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-IPC 16/ 2-G-10,16	1702413	10
DFK-IPC 16/ 3-G-10,16	1702426	10
DFK-IPC 16/ 4-G-10,16	1702439	10
DFK-IPC 16/ 5-G-10,16	1702442	10
DFK-IPC 16/ 6-G-10,16	1702455	10
DFK-IPC 16/ 7-G-10,16	1702468	10
DFK-IPC 16/ 8-G-10,16	1702471	10
DFK-IPC 16/ 9-G-10,16	1702484	10

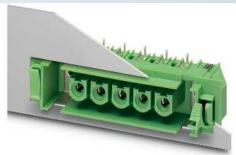
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



With threaded flange and shield connection on the front of the device



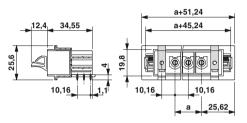
Rotated 180°, without threaded flange



Rotated 180°, with threaded flange and shield connection on the front of the device

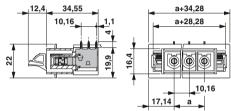
CCA CB

Dimensional drawing

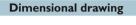


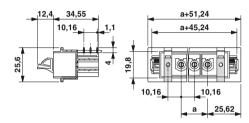
CCA CB

Dimensional drawing

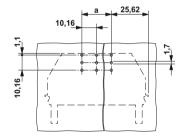


CCA CB



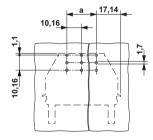


Drilling diagram

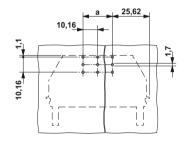


Ordering data		
Туре	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-IPC 16/ 2-GF-10,16	1702730	10
DFK-IPC 16/ 3-GF-10,16	1702743	10
DFK-IPC 16/ 4-GF-10,16	1702756	10
DFK-IPC 16/ 5-GF-10,16	1702769	10
DFK-IPC 16/ 6-GF-10,16	1702772	10
DFK-IPC 16/ 7-GF-10,16	1702785	10
DFK-IPC 16/ 8-GF-10,16	1702798	10
DFK-IPC 16/ 9-GF-10,16	1702808	10

Drilling diagram



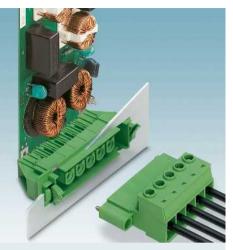
Ordering data		
Туре	Order No.	Pcs. / Pkt
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
DFK-IPC 16/ 2-GU-10,16	1702497	10
DFK-IPC 16/ 3-GU-10,16	1702507	10
DFK-IPC 16/ 4-GU-10,16	1702510	10
DFK-IPC 16/ 5-GU-10,16	1702523	10
DFK-IPC 16/ 6-GU-10,16	1702536	10
DFK-IPC 16/ 7-GU-10,16	1702549	10
DFK-IPC 16/ 8-GU-10,16	1702552	10
DFK-IPC 16/ 9-GU-10,16	1702565	10



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing	
DFK-IPC 16/ 2-GFU-10,16	1702811	10	
DFK-IPC 16/ 3-GFU-10,16	1702824	10	
DFK-IPC 16/ 4-GFU-10,16	1702837	10	
DFK-IPC 16/ 5-GFU-10,16	1702840	10	
DFK-IPC 16/ 6-GFU-10,16	1702853	10	
DFK-IPC 16/ 7-GFU-10,16	1702866	10	
DFK-IPC 16/ 8-GFU-10,16	1702879	10	
DFK-IPC 16/ 9-GFU-10,16	1702882	10	

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm

Feed-through headers with pin/socket contact



- An inverted feed-through header to implement a touch-proof PCB output (in combination with IPC 16 ST)
- To solder onto the PCB
- In SH versions, shielding functions can be executed on the inside of the device as well
- A snap-lock mechanism to be operated without tools or a classical screw con-
- Wall thicknesses from 1 mm to 3 mm
- Suitable for 600 V UL when used in combination with IPC 16 screw and spring-cage plugs

Notes:

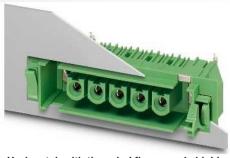
In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



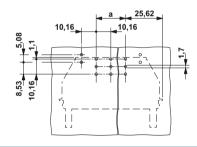
Horizontal, with threaded flange and shield feed-through on the inside of the device

Dimensional drawing

LCA CB

Туре	Page	
Coding profile CP-PC RD	38	a+51,24
Order No. 1701967		12,4 34,55 11,35 a+45,24
Coding pin CS-IPC 16/6 Order No. 1970016	38	10,16 10,16 10,16
Screws for mounting on the housing panel DFK-PC 16-SS		8,53 5,08 25,62 a

Drilling diagram



Accessories			
For all types	Type	Page	
*	Coding profile CP-PC RD Order No. 1701967	38	
**	Coding pin CS-IPC 16/6 Order No. 1970016	38	
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449		
J	Marker strips SK 5,0 WH:REEL Order No. 0805221	801	

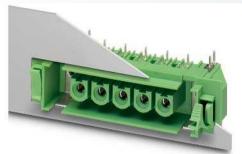
No. of pos.

lechnicai data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	_
Drill hole diameter / pin dimensions	[mm]

	701)	
	76¹) 1000	
	1000	
	10.16	
III/3	III/2	11/2
1000	1000	1000
8	8	6
В	С	D
300	300	600
66	66	5
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	PA/I	
	V0	
1	.7 / 0.8 x 1.	2

	Ordering data			
	Туре	Order No.	Pcs. / Pkt	
Dim. a [mm]	10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing	
10.16	DFK-IPC 16/ 2-GF-SH-10,16	1702976	10	
20.32	DFK-IPC 16/ 3-GF-SH-10,16	1702989	10	
30.48	DFK-IPC 16/ 4-GF-SH-10,16	1702992	10	
40.64	DFK-IPC 16/ 5-GF-SH-10,16	1703001	10	
50.80	DFK-IPC 16/ 6-GF-SH-10,16	1703014	10	
60.96	DFK-IPC 16/ 7-GF-SH-10,16	1703027	10	
71.12	DFK-IPC 16/ 8-GF-SH-10,16	1703030	10	
81.28	DFK-IPC 16/ 9-GF-SH-10,16	1703043	10	

PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm



Horizontal, rotated 180°, with threaded flange, shield feed-through on the inside of the device



Vertical, without threaded flange

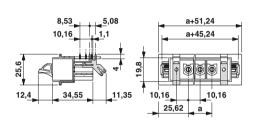
Dimensional drawing



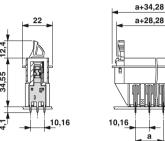
Vertical, with threaded flange and shield connection on the front of the device

CCA CB

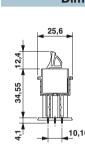
Dimensional drawing

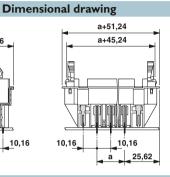


CCA CB

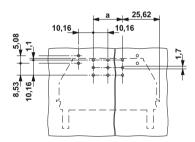


CCA CB



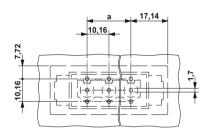


Drilling diagram

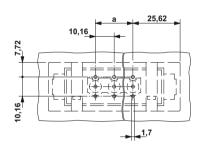


Ordering data			
Туре	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPC 16/ 2-GFU-SH-10,16	1702895	10	
DFK-IPC 16/ 3-GFU-SH-10,16	1702905	10	
DFK-IPC 16/ 4-GFU-SH-10,16	1702918	10	
DFK-IPC 16/ 5-GFU-SH-10,16	1702921	10	
DFK-IPC 16/ 6-GFU-SH-10,16	1702934	10	
DFK-IPC 16/ 7-GFU-SH-10,16	1702947	10	
DFK-IPC 16/ 8-GFU-SH-10,16	1702950	10	
DFK-IPC 16/ 9-GFU-SH-10,16	1702963	10	

Drilling diagram

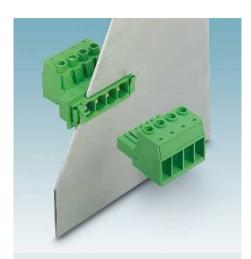


Ordering data					
Туре	Order No.	Pcs. / Pkt			
10.16 mm pitch, color: green, for 1.0 to walls	10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls $$				
DFK-IPCV 16/ 2-G-10,16	1703056	10			
DFK-IPCV 16/ 3-G-10,16	1703069	10			
DFK-IPCV 16/ 4-G-10,16	1703072	10			
DFK-IPCV 16/ 5-G-10,16	1703085	10			
DFK-IPCV 16/ 6-G-10,16	1703098	10			
DFK-IPCV 16/ 7-G-10,16	1703108	10			
DFK-IPCV 16/ 8-G-10,16	1703111	10			
DFK-IPCV 16/ 9-G-10,16	1703124	10			



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPCV 16/ 2-GF-10,16	1703218	10	
DFK-IPCV 16/ 3-GF-10,16	1703221	10	
DFK-IPCV 16/ 4-GF-10,16	1703234	10	
DFK-IPCV 16/ 5-GF-10,16	1703247	10	
DFK-IPCV 16/ 6-GF-10,16	1703250	10	
DFK-IPCV 16/ 7-GF-10,16	1703263	10	
DFK-IPCV 16/ 8-GF-10,16	1703276	10	
DFK-IPCV 16/ 9-GF-10,16	1703289	10	

Feed-through headers with pin/socket contact



- Feed-through headers for use in combination with PC 16 plugs
- A screw connection on the inside of the
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be executed on the inside of the device
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

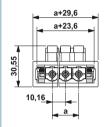
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

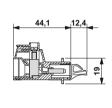


Without threaded flange, 600 V UL approval

LCA CB

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 16 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
*	Coding profile CP-PC RD Order No. 1701967	38	
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449		
•	Screwdriver SZS 1,0 x 4,0 Order No. 1205066		
3	Marker strips SK 5,0 WH:REEL Order No. 0805221	801	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
Ħ	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983		

No. of pos.

3

6

Я

Dim. a

[mm]

10.16

20.32

30.48

40.64

50.80

60.96

71.12

81 28

Technical data Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section [A] / [mm²] Rated insulation voltage for pollution degree 2 [V] Pitch [mm] Connection capacity Solid & multi-strand / stranded [mm²]/[mm²]/AWG Stranded with ferrules without plastic sleeve [mm²] Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid & multi-strand / stranded [mm²] Stranded with ferrules without plastic sleeve [mm²] [mm²] Stranded with TWIN ferrule with plastic sleeve Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [V] Rated surge voltage [kV] Approval data (UL/CUL) Use Group Nominal voltage [V] Nominal current AWG Connection capacity AWG Approval data (CSA) Use Group Nominal voltage [V] Nominal current [A] Connection capacity AWG AWG General data Stripping length [mm] Screw thread Tightening torque [Nm] Type of insulation material / insulation material group

	76¹) / 16	
	1000	
	10.16	
0.75 4	0/075 40	. / 40 0
0.75 - 1	6 / 0.75 - 16 0.5 - 16	0 / 18 - 0
	0.5 - 16	
	0.5 - 10	
0.7	75 - 6 / 0.75	- 6
	0.5 - 4	
	0.5 - 6	
III/3	III/2	11/2
1000	1000	1000
8	8	6
В	С	D
600	600	-
55	55	-
20 - 6	20 - 6	-
В	С	D
-	-	-
-	-	-
		-
	40	
	12 M4	
	1.7 - 1.8	
	PA/I	
	V0	
	••	

Ordering data			
Туре	Order No.	Pcs. / Pkt	
10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing	
DFK-PC 16/ 2-ST-10,16	1703373	10	
DFK-PC 16/ 3-ST-10,16	1703386	10	
DFK-PC 16/ 4-ST-10,16	1703399	10	
DFK-PC 16/ 5-ST-10,16	1703409	10	
DFK-PC 16/ 6-ST-10,16	1703412	10	
DFK-PC 16/ 7-ST-10,16	1703425	10	
DFK-PC 16/ 8-ST-10,16	1703438	10	
DFK-PC 16/ 9-ST-10,16	1703441	10	

Inflammability class according to UL 94



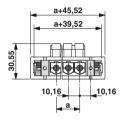
With threaded flange and shield connection on the front of the device, 600 V UL approval

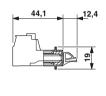


With threaded flange and shield feed-through on the inside of the device, 600 V UL approval

CCA CB

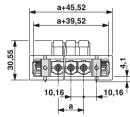
Dimensional drawing

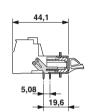




CCA CB

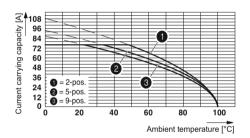
Dimensional drawing





Representative derating curve

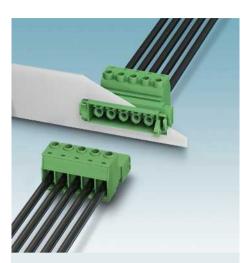
Type: PC 16/...-ST-10,16 with DFK-PC 16/...-ST-10,16



Ordering data					
Type Order No. Pcs. / Pk					
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls					
DFK-PC 16/ 2-STF-10,16	1703454	10			
DFK-PC 16/ 3-STF-10,16	1703467	10			
DFK-PC 16/ 4-STF-10,16	1703470	10			
DFK-PC 16/ 5-STF-10,16	1703483	10			
DFK-PC 16/ 6-STF-10,16	1703496	10			
DFK-PC 16/ 7-STF-10,16	1703506	10			
DFK-PC 16/ 8-STF-10,16	1703519	10			
DFK-PC 16/ 9-STF-10,16	1703522	10			

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls				
DFK-PC 16/ 2-STF-SH-10,16	1703616	10		
DFK-PC 16/ 3-STF-SH-10,16	1703629	10		
DFK-PC 16/ 4-STF-SH-10,16	1703632	10		
DFK-PC 16/ 5-STF-SH-10,16	1703645	10		
DFK-PC 16/ 6-STF-SH-10,16	1703658	10		
DFK-PC 16/ 7-STF-SH-10,16	1703661	10		
DFK-PC 16/ 8-STF-SH-10,16	1703674	10		
DFK-PC 16/ 9-STF-SH-10,16	1703687	10		

Feed-through headers with pin/socket contact



- An inverted feed-through header for a touch-proof device output (in combination with IPC 16 ST)
- A screw connection on the inside of the
- A snap-lock mechanism to be operated without tools or a classical screw con-
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be executed on the inside of the device
- Suitable for 600 V UL when used in combination with IPC 16 screw and spring-cage plugs

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

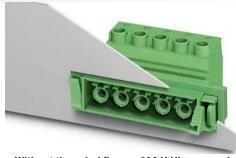
COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

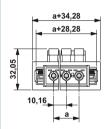
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

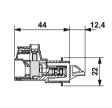


Without threaded flange, 600 V UL approval

P 2u **/P** 3

Dimensional drawing





Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 16 mm² Reduction factor = 0.8 Number of positions = see diagram

Accessories			
For all types	Туре	Page	
*	Coding profile CP-PC RD Order No. 1701967	38	
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449		
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066		
3	Marker strips SK 5,0 WH:REEL Order No. 0805221	801	
Å	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034		
ħ	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983		

Technical data Technical data in accordance to IEC / DIN VDE Rated current / conductor cross section [A] / [mm²] Rated insulation voltage for pollution degree 2 [V] Pitch [mm] Connection capacity $[mm^2]/[mm^2]/AWG$ Solid & multi-strand / stranded [mm²] Stranded with ferrules without plastic sleeve Stranded with ferrules with plastic sleeve [mm²] Multi-conductor connection capacity (two conductors with the same cross section) Solid & multi-strand / stranded [mm²] Stranded with ferrules without plastic sleeve [mm²] [mm²] Stranded with TWIN ferrule with plastic sleeve Insulation coordination Surge voltage category / pollution degree Rated insulation voltage [V] Rated surge voltage [kV] Approval data (UL/CUL) Use Group Nominal voltage [V] Nominal current AWG Connection capacity AWG Approval data (CSA) Use Group Nominal voltage [V] Nominal current [A] Connection capacity AWG AWG General data Stripping length [mm] Screw thread Tightening torque [Nm] Type of insulation material / insulation material group Inflammability class according to UL 94

	76¹) / 16			
	1000			
	10.16			
0.75 - 10	6 / 0.75 - 16	6 / 18 - 6		
	0.5 - 16			
	0.5 - 16			
0.7	E C/07E	0		
0.7	75 - 6 / 0.75	- 6		
-	0.5 - 4 0.5 - 6			
	0.5 - 6			
III/3	III/2	II / 2		
1000	1000	1000		
8	8	6		
В	С	D		
600	600	-		
55	55	-		
20 - 6	20 - 6	-		
В	С	D		
	-	-		
-	-	-		
-	-	-		
	12			
	M4			
1.7 - 1.8				
	PA/I			
	V0			

		Ordering date	ta	
		Туре	Order No.	Pcs. / Pkt.
lo. of pos.	Dim. a [mm]	10.16 mm pitch, color: green, for 1.0 to walls	3.0 mm thick	housing
2	10.16	DFK-IPC 16/ 2-ST-10,16	1703690	10
3	20.32	DFK-IPC 16/ 3-ST-10,16	1703700	10
4	30.48	DFK-IPC 16/ 4-ST-10,16	1703713	10
5	40.64	DFK-IPC 16/ 5-ST-10,16	1703726	10
6	50.80	DFK-IPC 16/ 6-ST-10,16	1703739	10
7	60.96	DFK-IPC 16/ 7-ST-10,16	1703742	10
8	71.12	DFK-IPC 16/ 8-ST-10,16	1703755	10
9	81.28	DFK-IPC 16/ 9-ST-10,16	1703768	10



With threaded flange with shield connection on the front of the device, 600 V UL approval



With threaded flange and shield feed-through on the inside of the device, 600 V UL approval

Dimensional drawing

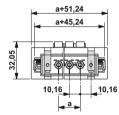
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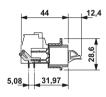
a+51.24

Dimensional drawing



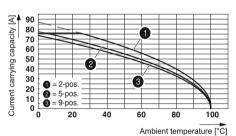
PLus 🕑





Representative derating curve

Type: IPC 16/...-ST-10,16 with DFK-IPC 16/...-ST-10,16

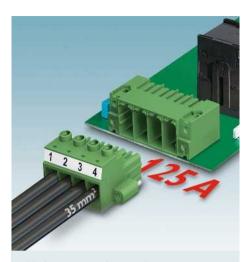


Ordering data			
Туре	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPC 16/ 2-STF-10,16	1703771	10	
DFK-IPC 16/ 3-STF-10,16	1703784	10	
DFK-IPC 16/ 4-STF-10,16	1703797	10	
DFK-IPC 16/ 5-STF-10,16	1703807	10	
DFK-IPC 16/ 6-STF-10,16	1703810	10	
DFK-IPC 16/ 7-STF-10,16	1703823	10	
DFK-IPC 16/ 8-STF-10,16	1703836	10	
DFK-IPC 16/ 9-STF-10,16	1703849	10	

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls			
DFK-IPC 16/ 2-STF-SH-10,16	1703933	10	
DFK-IPC 16/ 3-STF-SH-10,16	1703946	10	
DFK-IPC 16/ 4-STF-SH-10,16	1703959	10	
DFK-IPC 16/ 5-STF-SH-10,16	1703962	10	
DFK-IPC 16/ 6-STF-SH-10,16	1703975	10	
DFK-IPC 16/ 7-STF-SH-10,16	1703988	10	
DFK-IPC 16/ 8-STF-SH-10,16	1703991	10	
DFK-IPC 16/ 9-STF-SH-10,16	1704000	10	

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm

Plugs with a screw connection



- High-capacity plugs with a current carrying capacity of up to 125 A and a connection capacity of 35 mm², solid
- Unrestricted 600-V-UL approval
- Maximum contact safety, thanks to an integrated double steel spring
- Standard with screw flange for secure connection even in applications with high levels of vibration
- Low insertion and withdrawal forces for convenient device connection
- Compatible with PC 35 HC/...-GF-15,0 base strip and IPC 35 HC/....-STGF-15,0 plug component

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 485.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

- 2) Up to 16 mm² = 2.5 Nm
- $25 \text{ mm}^2 = 3.5 \text{ Nm}$
- 35 mm² = 4.5 Nm

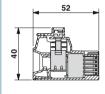


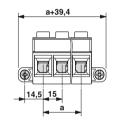
With screw flange, 600 V UL approval

PLus 🕑

Accessories For all types Туре Page Marker strips SK 10.0 WH:REEL 801 Order No. 0812188 Screwdriver SZS 1,0 x 6,5 Order No. 1205079 Coding profile CP-HC 38 Order No. 1686478

Dimensional drawing





Note derating curves

Derating curves, determined in accordance with DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 35 mm2 Reduction factor = 0.8 Number of positions = see diagram

Technical data	
Technical data in accordance to IEC / DIN VD	E
Rated current / conductor cross section	[A] / [mm ²]
Rated insulation voltage for pollution degree 2	2 [V]
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	h the same cross section)
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	al group

	1251) / 35	
	1000	
	15	
0.5 - 3	5 / 0.5 - 35 /	20 - 2
	1 - 35	
	1.5 - 35	
0	.5 - 6 / 0.5 -	6
	0.5 - 4	
	0.5 - 6	
III/3	III/2	11/2
1000	1000	1000
8	8	6
В	С	D
600	600	-
115	115	-
16 - 2	16 - 2	-
В	С	D
	-	-
	-	-
-	-	-
	20	
	M5	
	2.5 - 4.52)	
	PA/I	
	V0	

		Type
No. of pos.	Dim. a [mm]	
2	15.00	PC 35 HC/ 2-
3	30.00	PC 35 HC/ 3-
4	45.00	PC 35 HC/ 4-
5	60.00	PC 35 HC/ 5-
6	75.00	PC 35 HC/ 6-

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
PC 35 HC/ 2-STF-15,00	1762592	25	
PC 35 HC/ 3-STF-15,00	1762602	25	
PC 35 HC/ 4-STF-15,00	1762615	25	
PC 35 HC/ 5-STF-15,00	1762628	10	
PC 35 HC/ 6-STF-15,00	1762631	10	

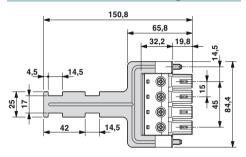
Inflammability class according to UL 94



With screw flange and shield, 600 V UL approval

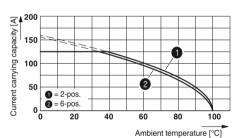
c**91** us

Dimensional drawing



Representative derating curve

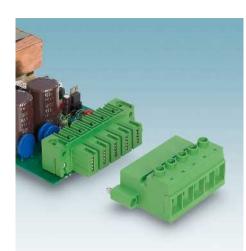
Type: PC 35 HC/...-STF-15,00 with PC 35 HC/...-GF-15,00



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
PC 35 HC/ 4-STF-SH-15,00	1762848	10	

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm

Plugs with a screw connection



- Inverted high-performance plug components with pin contact for touch-proof device outputs or free hanging cable-cable connections
- Unrestricted 600-V-UL approval
- Maximum contact safety, thanks to an integrated double steel spring
- Standard with screw flange for secure connection even in applications with high levels of vibration
- Low insertion and withdrawal forces for convenient device connection
- Compatible with IPC 35 header HC/...-GF-15,0 and with plug component PC 35 HC/...-STF-15,0

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 485.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

- 2) Up to 16 mm² = 2.5 Nm
- $25 \text{ mm}^2 = 3.5 \text{ Nm}$
- $35 \text{ mm}^2 = 4.5 \text{ Nm}$



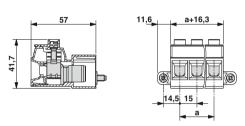
With screw flange, 600 V UL approval

Accessories For all types Туре Page Marker strips SK 10.0 WH:REEL 801 Order No. 0812188 Screwdriver SZS 1,0 x 6,5 Order No. 1205079 Coding profile CP-HC 38 Order No. 1686478 Screws for mounting on the housing panel DFK-PC 35-SS

1700368



Dimensional drawing



Note derating curves

Derating curves, determined in accordance with DIN EN 61984 (VDE 0627):2002-09 Representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = 35 mm2 Reduction factor = 0.8 Number of positions = see diagram

Technical data	
Technical data in accordance to IEC / DIN VDI	E
Rated current / conductor cross section	[A] / [mm²]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm²]
Stranded with TWIN ferrule with plastic sleeve	[mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / insulation material	group
Inflammability class according to UL 94	

	1251) / 35	
	1000	
	15	
0.5 - 3	5 / 0.5 - 35 /	20 - 2
	1 - 35	
	1.5 - 35	
0.	.5 - 6 / 0.5 -	6
	0.5 - 4	
	0.5 - 6	
III / 3	III/2	II / 2
1000	1000	1000
8	8	8
В	С	D
600	600	-
115	115	-
16 - 2	16 - 2	-
В	С	D
	-	-
	-	-
-	-	-
	20	
	M5	
	2.5 - 4.52)	
	PA/I	
	V0	

		Ordering data		
		Туре	Order No.	Pcs. / Pkt.
No. of pos.	Dim. a [mm]			
2	15.00	IPC 35 HC/ 2-STF-15,00	1784790	25
3	30.00	IPC 35 HC/ 3-STF-15,00	1784800	25
4	45.00	IPC 35 HC/ 4-STF-15,00	1784813	25
5	60.00	IPC 35 HC/ 5-STF-15,00	1784826	10
6	75.00	IPC 35 HC/ 6-STF-15,00	1784839	10

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm



With threaded flange, 600 V UL approval



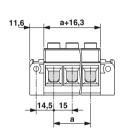
With screw flange and shield, 600 V UL approval



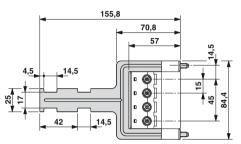
With threaded flange and shield, 600 V UL approval

@ **91**

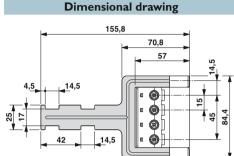
Dimensional drawing



Dimensional drawing



91

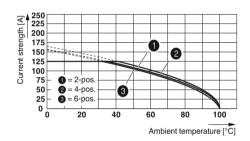


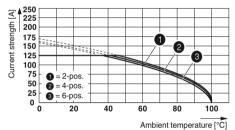
Representative derating curves of the above-mentioned plugs

91

Type: IPC 35 HC/...-STF-15,0 with IPC 35 HC/...-GF-15,0

Type: PC 35 HC/..-STF-15,0 with IPC 35 HC/..-STGF-15,0





Ordering data			
Туре	Order No.	Pcs. / Pkt.	
IPC 35 HC/ 2-STGF-15,00	1784855	25	
IPC 35 HC/ 3-STGF-15,00	1784868	25	
IPC 35 HC/ 4-STGF-15,00	1784871	25	
IPC 35 HC/ 5-STGF-15,00	1784884	10	
IPC 35 HC/ 6-STGF-15,00	1784897	10	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
IPC 35 HC/ 4-STF-SH-15,00	1784842	10

Ordering data			
Туре		Order No.	Pcs. / Pkt.
IPC 35 HC/ 4-STGF-SH-	5,00	1784907	10

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm

Headers with pin contact



- PC 35 HC headers for use in combination with PC 35 plugs and IPC 35 head-
- Horizontal (0° to the PCB) and vertical (90° to the PCB) versions are available
- Integrated double flange for fastening with PC 35 connector and housing panel
- Integrated threaded flange for screwing to the PCB

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 485.

The cutout dimensions for the feed-through versions can be found on page 595

Header can be screwed to the PCB using DFK-PC 35-SS, Order No. 1700368. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Order No. 1700368

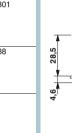


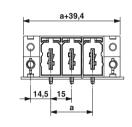
Horizontal, 600 V UL approval

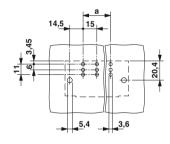
Dimensional drawing

PLus 🕑

Accessories For all types Туре Page Marker strips SK 10,0 WH:REEL 801 Order No. 0812188 Coding profile 38 28,5 CP-HČ Order No. 1686478 Screws for mounting on 11 the housing panel DFK-PC 35-SS





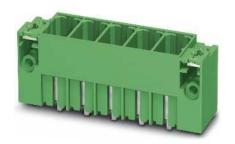


Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	125¹)	
	1000	
	15	
	15	
III/3	III/2	II / 2
1000	1000	1000
8	8	8
В	C	D
600	600	-
115	115	-
-	-	-
В	С	D
	-	-
	-	-
-	-	-
	DDT (III	
	PBT / IIIa V0	
2.6	/ 2.4 x 2.5 ı	mm
3.0	/ 2.4 X 2.5 I	11111

No. of pos.	Dim. a [mm]
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
PC 35 HC/ 2-GF-15,00	1762741	25			
PC 35 HC/ 3-GF-15,00	1762754	25			
PC 35 HC/ 4-GF-15,00	1762767	25			
PC 35 HC/ 5-GF-15,00	1762770	10			
PC 35 HC/ 6-GF-15,00	1762783	10			



Vertical, 600 V UL approval



Horizontal, with shield connection, 600 V UL approval

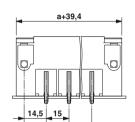
Dimensional drawing



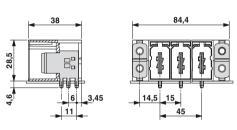
28,5

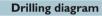
11

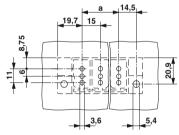
Dimensional drawing



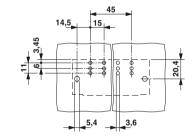
c**91**us







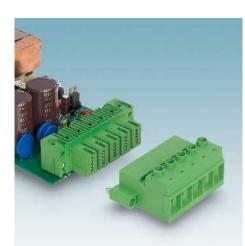




Ordering data					
Туре	Order No.	Pcs. / Pkt.			
PC 35 HC/ 4-GF-SH-15,00	1762851	25			

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm

Headers with socket contact



- Inverted IPC 35 HC headers for implementing a touch-proof PCB output (in combination with IPC 35 HC plugs) or a PCB/PCB connection (in combination with PC 35 headers)
- Horizontal (0° to the PCB) and vertical (90° to the PCB) versions are available
- DFK versions for fixing in the housing
- Integrated threaded flange for screwing to the PCB

Notes:

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under

COMBICON select

You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products or starting on page 485.

The cutout dimensions for the feed-through versions can be found

The header can be screwed to the PCB with DFK-IPC 35-SS Order No. 1703166. Screw connection only permitted prior to soldering.

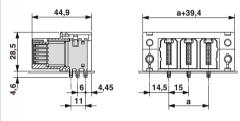


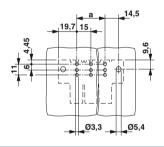
Horizontal, 600 V UL approval

Accessories For all types Туре Page Marker strips SK 10,0 WH:REEL 801 0812188 Coding profile 38 CP-HČ Order No. 1686478 Screws for mounting on the housing panel DFK-IPC 35-SS Order No. 1703166



Dimensional drawing





Technical data	
Technical data in accordance to IEC / DIN VDE	
Rated current	[A]
Rated insulation voltage for pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Type of insulation material / insulation material group	
Inflammability class according to UL 94	
Drill hole diameter / pin dimensions	[mm]

	125	
	1000	
	15	
III/3	III/2	11/2
1000	1000	1000
8	8	8
В	С	D
600	600	-
115	115	-
-	-	-
В	С	D
	-	-
	-	-
-	-	-
	PBT / Illa	
	V0	
3.6	/ 2.4 x 2.5 r	mm

No. of pos.	Dim. a [mm]
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
IPC 35 HC/ 2-GF-15,00	1784910	25			
IPC 35 HC/ 3-GF-15,00	1784923	25			
IPC 35 HC/ 4-GF-15,00	1784936	25			
IPC 35 HC/ 5-GF-15,00	1784949	10			
IPC 35 HC/ 6-GF-15,00	1784952	10			

PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm



Vertical, 600 V UL approval



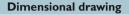
Horizontal, for fixing in the housing panel with shield connection, 600 V UL approval

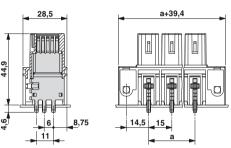
a+47,4



Vertical, for fixing in the housing panel with shield connection, 600 V UL approval

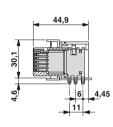
@ **91**



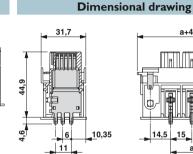


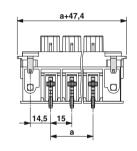
@ **%**

Dimensional drawing

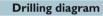


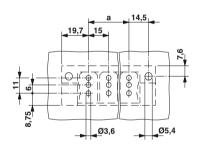




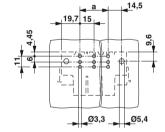


Drilling diagram

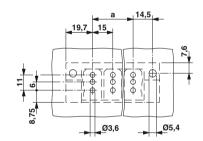








Ordering data						
Type	Order No.	Pcs. / Pkt.				
,						
DFK-IPC 35 HC/ 2-GF-15,00	1784965	25				
DFK-IPC 35 HC/ 3-GF-15,00	1784978	25				
DFK-IPC 35 HC/ 4-GF-15,00	1784981	25				
DFK-IPC 35 HC/ 5-GF-15,00	1784994	10				
DFK-IPC 35 HC/ 6-GF-15,00	1785003	10				



Ordering data						
Туре	Order No.	Pcs. / Pkt.				
DFK-IPCV 35 HC/ 2-GF-15,00	1793600	25				
DFK-IPCV 35 HC/ 3-GF-15,00	1793613	25				
DFK-IPCV 35 HC/ 4-GF-15,00	1793626	25				
DFK-IPCV 35 HC/ 5-GF-15,00	1793639	10				
DFK-IPCV 35 HC/ 6-GF-15,00	1793642	10				

Feed-through plug-in connectors

Routing cables through panels

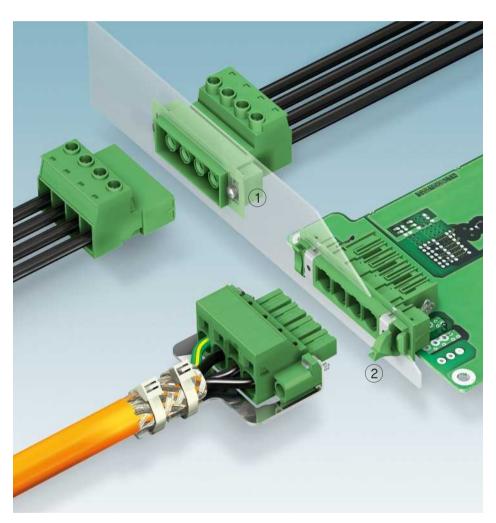
COMBICON power feed-through plugin connectors enable you to route a conductor through device housing efficiently and without any gaps. PC 5 and PC 16 series feed-through plug-in connectors and headers are inserted in the housing opening and secured with the quick snap-lock mechanism (2) without using any additional tools.

As an alternative to the snap-lock mechanism, each plug-in connector also has screw fixings 1 for the housing panel. The corresponding screws can be ordered using Order No. 1705449.

In addition to solder-in versions, the version with a screw connection inside the device is a particularly easy-maintenance and fast alternative. Cable/cable connections can therefore be used in devices with a conductor cross section of up to 16 mm² and currents of up to 76 A.

The inverted design, which supports practical connection options, completes the range of feed-through plug-in connectors. In this way, a live device output, for example, can be designed very easily with shock protection.

DFK plug-in connectors in STF/STF-SH versions (3) also offer the option of routing shielding functions to or through the housing panel.





Screw fixing (1)



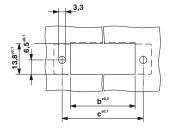
Snap-lock mechanism

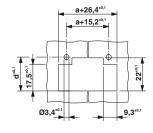


Sheet metal cutouts for DFK-PC 4

DFK-PC 4/...G-7,62-FS4,8

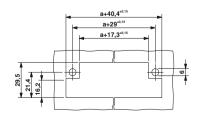
DFK-PC 4/...-GF-7,62





Sheet metal cutouts for PC 35

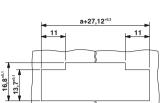
PC 35 HC/....-GF-15



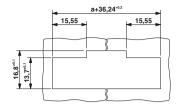
Feed-through plug-in connectors

Sheet metal cutouts for DFK-PC(V) 5/...G

For G and GU versions

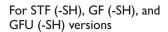


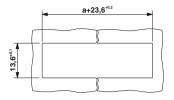
For GF (-SH) and GFU (-SH) versions



Sheet metal cutouts for DFK-PC(V) 16

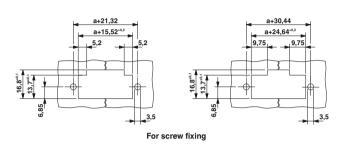
For ST. G. and GU versions



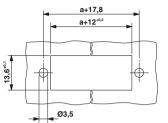


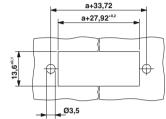


For snap-lock mechanism



For snap-lock mechanism





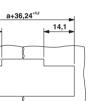
For screw fixing

Sheet metal cutouts for DFK-PC 5/...ST

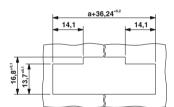
For ST versions

13,7***

14,1

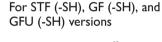


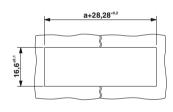
For STF (-SH) versions

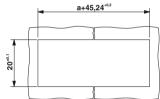


Sheet metal cutouts for DFK-IPC(V) 16

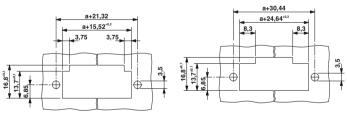
For ST, G, and GU versions



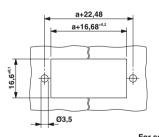


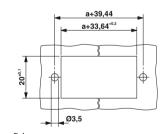


For snap-lock mechanism



For snap-lock mechanism



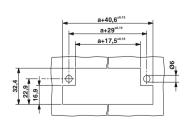


For screw fixing

For screw fixing

Sheet metal cutouts for IPC 35

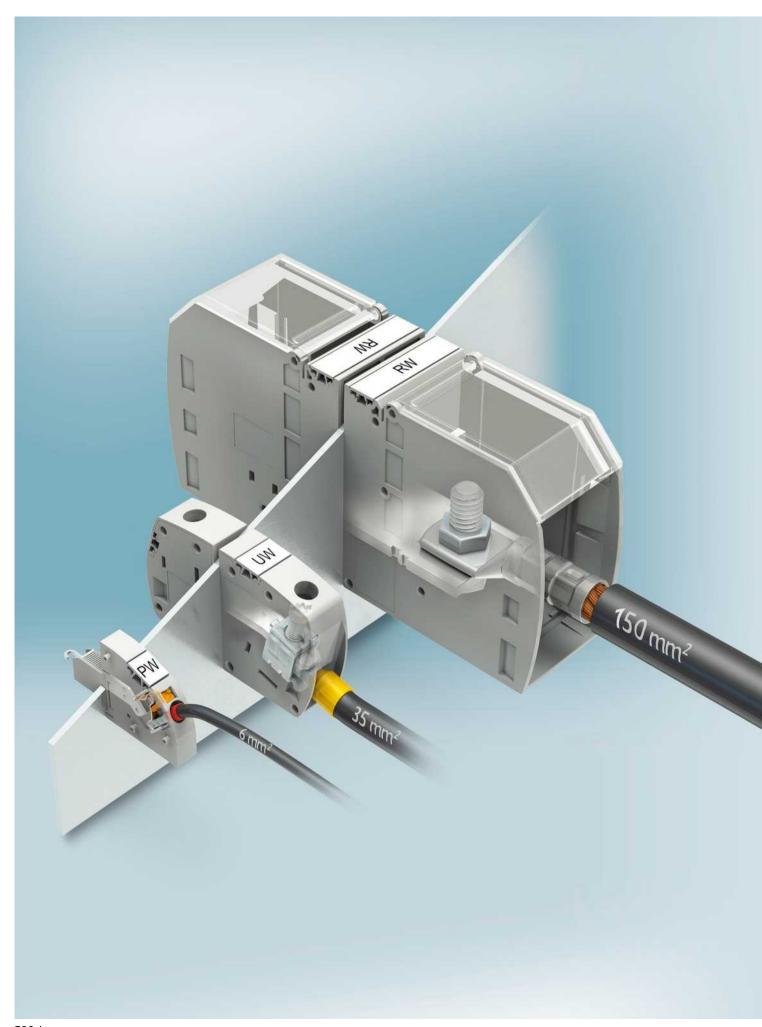
DFK-IPCV 35 HC/....-GF-15



Dimensions table

Number of positions	DFK-PC 5	DFK-(I)PC 16	PC 35 HC/ GF-15	DFK-IPC 35	DFK-PC 4/FS4,8		DFK-PC 4/GF			K-PC GF
·	Dimension "a"	Dimension "a"	Dimension "a"	Dimension "a"	Dimension "b"	Dimension "c"	Dimension "b"	Dimension "c"		
2	7.62	10.16	15.00	15.00	15.19	22.86	22.9	34.1		
3	15.24	20.32	30.00	30.00	22.81	30.48	30.5	41.7		
4	22.86	30.48	45.00	45.00	30.43	38.10	38.1	49.3		
5	30.48	40.64	60.00	60.00	38.05	45.72	45.7	56.9		
6	38.10	50.80	75.00	75.00	45.67	53.34	53.3	64.6		
7	45.72	60.69			53.29	60.96	61.0	72.2		
8	53.34	71.12			60.91	68.58	68.6	79.8	1	21.4
9	60.96	81.28			68.53	76.20	76.2	87.4	2	21.9
10	68.58				76.15	83.82	83.8	95.0	3	22.5
11	76.20				83.77	91.44	91.4	102.7	4	23.1
12	83.82				91.39	99.06	99.1	110.3	5	23.7

Possible panel thickness of 1.0 - 3.0 mm for DFK-PC 5, DFK-(I)PC 16 Possible panel thickness of 1.0 - 5.0 mm for DFK-PC 4



With the feed-through terminal blocks, you can freely select the connection technology. Choose between traditional screw connection, robust bolt connection, and convenient push-in connection - whichever best suits your application. The portfolio includes terminal blocks in the connection range from 0.2 to 150 mm² with a current carrying capacity of up to 309 A. Furthermore, the terminal blocks have unlimited UL approval up to 600 V UL, and up to 1000 V according to IEC.

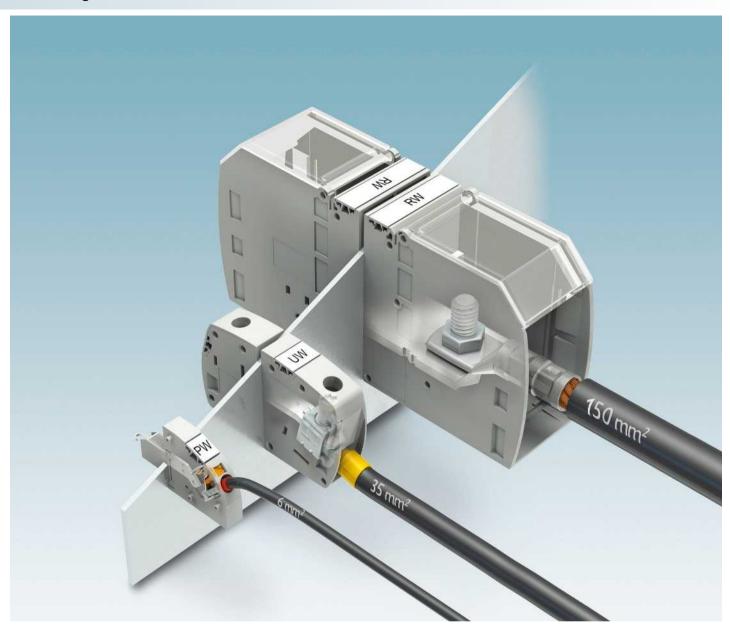
The feed-through terminal blocks are available in standard or molded design, each with horizontal or vertical connection direction. The different connection directions mean that the product range is able to offer a space-saving connection for all installation locations.

The feed-through terminal blocks are available in single-position design with or without engagement pin on the outer panel. The engagement pin enables the terminal blocks to be snapped together side-by-side in the required number of positions. For neat termination or as single terminal blocks, the terminal blocks are used without the engagement pin.

The feed-through terminal blocks offer users the complete range of wiring "through the panel". The terminal blocks consist of an internal and external element. These pass through the housing panel and snap together easily without the need for tools. The precise engagement mechanism ensures a tight fit, however thick the panel. For high mechanical strain, maximum mechanical stability can be achieved with the option of using screws, rivets, and flange.

Product range overview	598
(Molded) feed-through terminal blocks with angled push-in spring connection, PW series	601
Internal with solder or spade connection up to 41 A/6 mm ²	601
Internal with cable lug connection up to 76 A/16 mm ²	603
Feed-through terminal blocks with horizontal push-lock spring connection, PLW series	605
Internal with angled push-in connection up to 41 A/6 mm², external 16 mm²	605
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series	607
Internal with screw, solder or spade connection up to 41 A/6 mm ²	607
Internal with screw, solder connection up to 76 A/16 mm ²	610
Internal with screw, cable lug connection up to 101 A/25 mm ²	612
Internal with screw, cable lug connection up to 125 A/35 mm ²	614
Internal with screw, cable lug connection up to 150 A/50 mm²	619
Internal with screw, cable lug connection up to 232 A/95 mm ²	620
Vertical double connection external up to 152 A/35 mm ²	623
(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series	624
With captive cover nut up to 76 A/16 mm²	624
With captive cover nut up to 125 A/35 mm²	626
In open housing up to 76 A/16 mm ²	628
In open housing up to 125 A/35 mm ²	630
With transparent cover up to 76 A/16 mm ²	632
With transparent cover up to 125 A/35 mm ²	634
In open housing up to 309 A/150 mm ²	636
Special designs, feed-through terminal blocks with screw connection	639
DFK 4 with screw connection	639
DFK 5-9,5 with screw connection	641
VDFK with screw connection for molding	643

Product range overview





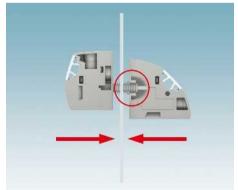
Panels pose no obstacle

Featuring a compact design, the high-current feed-through terminal blocks give you freedom of choice where connection technology is concerned.



Can be used in any application up to **UL 600 V**

The product range was specifically developed for devices and applications at the upper end of the power range. Their performance features allow them to be used anywhere in the world.



Easy mounting

The terminal blocks consist of an internal and external element. These pass through the housing panel and snap together easily without the need for tools. The precise engagement mechanism ensures a tight fit, however thick the panel.

Product range overview



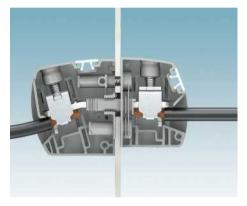
Alternative fixing options for higher levels of mechanical strain are provided by ... screws,



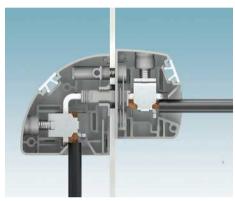
... rivet,



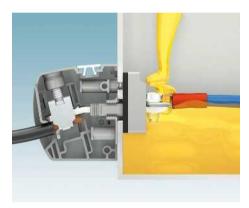
... flange.



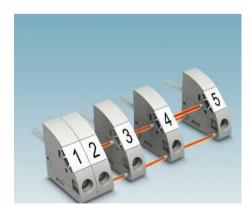
For effective and space-saving conductor routing, whatever the mounting position, high-current feed-through terminal blocks with horizontal and ...



... vertical conductor routing are available.



The molded versions have been designed specifically to meet the requirements associated with molded devices. They ensure maximum tightness of seal, even with lowviscosity sealing compounds.



The various engagement pin versions can be used to create pre-assembled blocks and speed up mounting.



The universal marking groove, an integral part of the housing design, enables clear marking of the device connection.



The new PLW series panel feed-through terminal blocks for tool-free operation speed up conductor feed-through with lever technology outside the device and push-in connection technology inside the device; see page 605.

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

Internal with solder or spade connection up to 41 A/6 mm²



- User-friendly push-in connection
- Tool-free wiring of conductors with ferrules or solid conductors
- The integrated latch allows you to release connected conductors with any type of tool
- Molded versions ensure maximum tightness of seal
- Easy grouping with engagement pin ver-
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensa-
- Flange plates for alternative mounting from the outside of the device

Notes:	
	e of portrait photos. de of portrait photos.
Corresponding so are supplied as st	crews for fixing the feed-through terminal blocks tandard.

Accessories				
For all types	Туре			
E	Screwdriver SZF 1-0,6 x 3,5			
п	Order No. 1204517			
•	1204517			
For PW 4/S				
line.	Flange plate PW 4-F			
	Order No.			
E 13	3000403			

Technical data	
Technical data in accordance to IEC / DIN VI	DE
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

PW 4-POT-SCM	PW 4-POT-SL
18 / 4 // 18 / 4	32 / 4 // 32 / 4
800	800
0.2 - 4 / 0.2 - 6 / 24 - 12	2 0.2 - 4 / 0.2 - 6 / 24 - 12
0.25 - 6	0.25 - 6
0.25 - 4	0.25 - 4
III/3 III/2 II/	/2 III/3 III/2 II/2
800 1000 10	000 800 1000 1000
8 8	8 8 8 8
B C [D B C D
300 300 60	00 300 300 600
· ————————————————————————————————————	5 30 30 5
24 - 10 24 - 10 24	-10 24-10 24-10 24-10
B C [D B C D
	<u> </u>
	<u> </u>
10	10
PA	PA PA
V0	V0
1 - 4	1 - 4

Description

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series



Internal part with spade connection



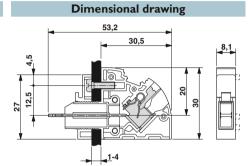
Internal part with solder connection



Dimensional drawing 30,5

Drilling diagram

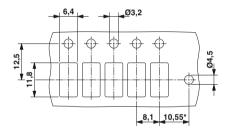
*Only when using the PW 4-F flange plate



Drilling diagram

*Only when using the PW 4-F flange plate

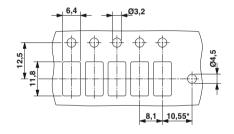
*9*1



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
PW 4-POT-SCM	3056938	50		
Feed-through terminal block, with engagement pin				
PW 4-POT-SCM/S	3056941	50		

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)



Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PW 4-POT-SL	3059731	50
Feed-through terminal block, with enga	agement pin	
PW 4-POT-SL/S	3059744	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

Internal with solder or spade connection up to 41 A/6 mm²



- User-friendly push-in connection
- Tool-free wiring of conductors with ferrules or solid conductors
- Molded versions ensure maximum tightness of seal
- Easy grouping with engagement pin versions
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensa-
- Flange plates for alternative mounting from the outside of the device

Notes:
Internal = left side of portrait photos. External = right side of portrait photos.
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.

Type Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517
Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517 For PW 4/S Flange plate PW 4-F Order No.
SZF 1-0,6 x 3,5 Order No. 1204517 For PW 4/S Flange plate PW 4-F Order No.
For PW 4/S Flange plate PW 4-F Order No.
Flange plate PW 4-F Order No.
Order No.
Order No.
3000403

lechnical data	•
Technical data in accordance to IEC / DIN VI)E
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]
·	·

PW	0 4-POT-S	СМ	P\	NO 4-POT-	SL
1	8/4//18/	4	3	32 / 4 // 32 /	4
	800			800	
0.2 - 4	4/0.2-6/2	24 - 12	0.2 - 4	4/0.2-6/2	24 - 12
	0.25 - 6			0.25 - 6	
	0.25 - 4			0.25 - 4	
III/3	III/2	II / 2	III/3	III/2	II / 2
800	1000	1000	800	1000	1000
8	8	8	8	8	8
В	С	D	В	С	D
300	300	600	300	300	600
30	30	5	30	30	5
24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10
В	С	D	В	С	D
	-	-		-	-
	-	-		-	-
-	-	-	-	-	-
	10			10	
	PA			PA	
	V0			V0	
	1 - 4			1 - 4	

Description

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

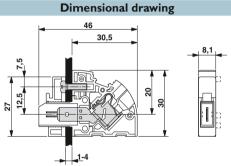




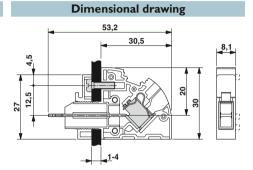
Internal part with spade connection

Internal part with solder connection



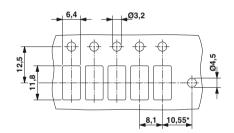


*9*1



Drilling diagram

Drilling diagram



-	<u>6,4</u> <u>Ø</u> 3,2	
• (0000	
12,5		
± _		=
	8,1 10,55*	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PWO 4-POT-SCM	3056912	50
Feed-through terminal block, with enga	agement pin	
PWO 4-POT-SCM/S	3056925	50

Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PWO 4-POT-SCM	3056912	50
Feed-through terminal block, with engagement pin		
PWO 4-POT-SCM/S	3056925	50

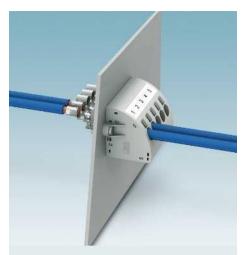
ZB 8.../ZBF 8... marking material (see Catalog 5) TMT (EX9,5)R marking material (see online catalog)

Ordering data		
Order No.	Pcs. / Pkt.	
3059715	50	
Feed-through terminal block, with engagement pin		
3059728	50	
	Order No. 3059715 agement pin	

ZB 8.../ZBF 8... marking material (see Catalog 5) TMT (EX9,5)R marking material (see online catalog)

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

Internal with cable lug connection up to 76 A/16 mm²



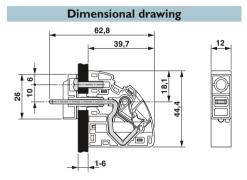
- Convenient push-in connection
- The two halves of the terminal can be easily assembled by simply snapping them together
- Tool-free wiring of conductors with ferrules or solid conductors
- Molded version for maximum tightness
- Easy grouping with engagement pin ver-
- Spacer plates increase air and creepage distances
- Flange plates as an alternative mounting option

Notes:
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
Internal = left side of portrait photos. External = right side of portrait photos.
1) When using DP-PWO 16-9 spacer plate (1705658).

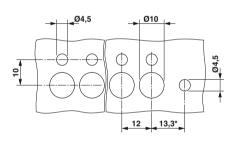


16 mm² molded feed-through terminal block, external part with push-in connection, internal part with cable lug connection

Accessories		
For all types	Туре	
	Spacer plate, 3 mm thick DP-PWO 16-3 Order No. 1705655	
	Spacer plate, 6 mm thick DP-PWO 16-6 Order No. 1705657	
	Spacer plate, 9 mm thick DP-PWO 16-9 Order No. 1705658	
	Flange plate PWO 16-F Order No. 1705659	



Drilling diagram



lechnical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded [m	m ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the	same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/strande	d) [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Insulation material	, ,
Inflammability class according to UL 94	
Panel thickness	[mm]
-	

76	/16//76/	16
	1000¹)	
1.5 - 1	6 / 1.5 - 16	/ 14 - 4
	1.5 - 16	
	1.5 - 16	
	-/-	
	- 1.5 - 4 -/-	
	1.5 - 4	
	-/-	
III/3	III/2	II / 2
1000¹)	1000¹)	1000¹)
8	8	6
В	С	D
-	-	-
-	-	-
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
	18	
	PA	
	V0	
	1 - 6	

	Ordering da	ta	
	Туре	Order No.	Pcs. / P
Description	Feed-through terminal block		
	PWO 16-POT	1705653	50
	Feed-through terminal block, with enga	agement pin	
	PWO 16-POT/S	1705654	50

ZB 12.../ZBF 12... marking material (see Catalog 5) TMT (EX9,5)R marking material (see online catalog)

Feed-through terminal blocks with horizontal push-lock spring connection, PLW series

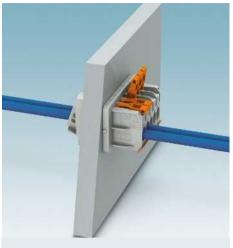
Internal with angled push-in connection up to 41 A/6 mm², outside 16 mm²

Notes:

Internal = left side of portrait photos. External = right side of portrait photos.

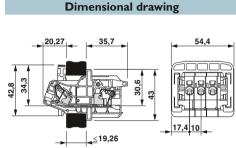


16/6 mm² feed-through terminal block, external part with push-lock connection, internal part with push-in connection



- Panel feed-through terminal blocks for tool-free operation with fast connection technology
- Outside the device with installationfriendly push-lock connection up to 16 mm² solid
- Fits inside the device with quick-fit pushin technology up to 6 mm²
- With sealing option for unauthorized operation
- Spacer for 3 mm panel thickness



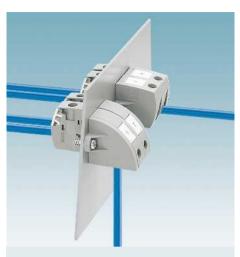


Technical data				
Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm ²]	41	/ 16 // 41 /	16
Rated voltage	[V]		1000	
Connection capacity				
	[mm ²] / AWG	2.5 - 1	6 / 2.5 - 25	/ 14 - 4
Stranded with ferrules without plastic sleeve	[mm ²]		2.5 - 16	
Stranded with ferrules with plastic sleeve	[mm ²]		2.5 - 16	
Multi-conductor connection capacity (two conductors with the same	e cross section)			
Solid / stranded	[mm ²]		-/-	
Stranded with ferrules without plastic sleeve	[mm ²]		-	
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		-	
Cross section with insertion bridge (solid/stranded)	[mm ²]		-/-	
Insulation coordination				
Surge voltage category / pollution degree		III/3	III/2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	В	С	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]		18	
Insulation material			PA	
Inflammability class according to UL 94			V0	
Panel thickness	[mm]		19.26	

	Ordering da	ta	
	Туре	Order No.	Pcs. / Pkt.
Description	Feed-through terminal block, 3-pos.		
	PLW 16-6/ 3-10	1821067	15
	Feed-through terminal block, 4-pos.		
	PLW 16-6/ 4-10	1821070	15
	Feed-through terminal block, 5-pos.		
	PLW 16-6/ 5-10	1821083	15

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Internal with screw, solder or spade connection up to 41 A/6 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensa-
- Easy grouping with engagement pin ver-
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:	
Internal = left side of portrait photos. External = right side of portrait photos.	
Corresponding screws for fixing the feed-through terminare supplied as standard.	al blocks
For corresponding rivets for fixing the feed-through termi blocks, see Catalog 5.	nal
The voltage specifications apply for mounting on a cor housing panel and when using spacer plates.	ductive

	Accessories
For all types	Туре
4	Screwdriver SZS 0,6 x 3,5 Order No. 1205053
Million .	Insertion bridge, can be separated EBS 10-8 Order No. 3118135
For UW 4/S	
*	Spacer plate, 3 mm thick DP-UW 4 Order No. 3074499
C I	Flange plate UW 4-F Order No. 3074512
For UWV 4/S	-
	Spacer plate, 3 mm thick DP-UWV 4 Order No. 3074509
S.	Flange plate UWV 4-F Order No. 3074596
	·

Technical data	
Technical data in accordance to IEC / DIN VE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	h the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Cross section with insertion bridge (solid/stra	nded) [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	-/[Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

UW 4		UWV 4			
	11/6//32/	4		11/6//32/	4
	5001)			5001)	
0.2 - 6	6/0.2-4/2	24 - 10	0.2 - 6	6/0.2-4/2	24 - 10
	0.25 - 4			0.25 - 4	
	0.25 - 4			0.25 - 4	
0.2	- 1.5 / 0.2 -	1.5	0.2	- 1.5 / 0.2 -	1.5
	0.25 - 1.5			0.25 - 1.5	
	0.5 - 2.5			0.5 - 2.5	
1.	5 - 4 / 1.5 - 2	2.5	1.5 - 4 / 1.5 - 2.5		2.5
III/3	III/2	II / 2	III/3	III/2	II / 2
5001)	630¹)	1000¹)	500¹)	630¹)	1000¹)
6¹)	6¹)	6¹)	6 ¹)	6¹)	6¹)
В	С	D	В	С	D
300¹)	300¹)	600 ¹)	3001)	300¹)	600¹)
30	30	5	30	30	5
24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10
В	С	D	В	С	D
	-	-		-	-
	-	-	-	-	-
-	-	-	-	-	-
	9		9		
!	M3 / 0.6 - 0.	8	!	ИЗ / 0.6 - 0.	8
	PA		PA		
	V0		V0		
	1 - 4		1 - 4		

Description

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



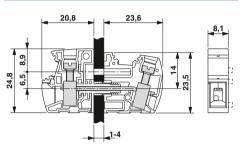
Horizontal conductor connection



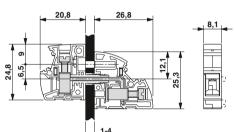
Vertical conductor connection



Dimensional drawing



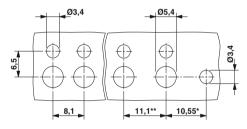
91



Dimensional drawing

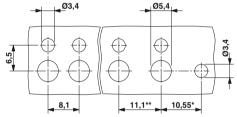
Drilling diagram

- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate



	וט	rıllır	ng (dia	gram
a transaction		141	- 0 -		alaka

- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
UW 4	3073306	50		
Feed-through terminal block, with engagement pin				
UW 4/S	3073319	50		

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
UWV 4	3073380	50		
Feed-through terminal block, with engagement pin				
UWV 4/S	3073393	50		

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Internal with screw, solder or spade connection up to 41 A/6 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation, thanks to the integrated snap principle in the insulating housing
- Easy grouping with engagement pin versions
- Molded type ensures maximum seal and is available with a slip-on or solder connection
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Technical data

Notes:	
Internal = left side of portrait External = right side of portra	
Corresponding screws for fix are supplied as standard.	ing the feed-through terminal blocks
For corresponding rivets for f blocks, see Catalog 5.	fixing the feed-through terminal
The voltage specifications housing panel and when usir	apply for mounting on a conductive ng spacer plates.

Α	ccessories
For all types	Туре
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053
	Insertion bridge, can be separated EBS 10-8 Order No. 3118135
For UW 4/S	
4	Spacer plate, 3 mm thick DP-UW 4 Order No. 3074499
	Flange plate UW 4-F Order No. 3074512

rechnical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/strane	ded) [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	-/[Nm]
Insulation material	
Inflammability class according to UL 94	·
Panel thickness	[mm]
·	·

UW	4-POT-SC	M	U	W 4-POT-9	SL	
4	11/6//32/	4	4	1/6//32/	4	
	800¹)			800¹)		
0.2 - 6	6/0.2-4/2	24 - 10	0.2 - 6	6/0.2-4/2	24 - 10	
	0.25 - 4			0.25 - 4		
	0.25 - 4			0.25 - 4		
0.2	- 1.5 / 0.2 -	1.5	0.2	- 1.5 / 0.2 -	1.5	
_	0.25 - 1.5			0.25 - 1.5		
	0.5 - 2.5			0.5 - 2.5		
1.	5 - 4 / 1.5 - 2	2.5	1.5 - 4 / 1.5 - 2.5		2.5	
III/3	III/2	II / 2	III/3	III/2	II / 2	
500	630	1000¹)	500	630	1000¹)	
6	6	6	6	6	6	
В	С	D	В	С	D	
3001)	300¹)	600¹)	300¹)	300¹)	600¹)	
30	30	5	30	30	5	
24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	
В	С	D	В	С	D	
	-	-	-	-	-	
	-	-	-	-	-	
-	-		-	-	-	
. <u> </u>	10			10		
	M3 / 0.6 - 0.			8		
	PA			PA		
	V0		V0			
1 - 4			1 - 4			

Description

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



Internal part with spade connection



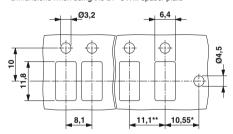
Internal part with solder connection

*9*1

Dimensional drawing

Drilling diagram

*Only when using the UW...-F flange plate
**Dimensions when using the DP-UW... spacer plate

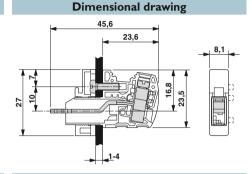


Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
UW 4-POT-SCM	3056996	50		
Feed-through terminal block, with engagement pin				
UW 4-POT-SCM/S	3056909	50		

ZB 8.../ZBF 8... marking material (see Catalog 5)

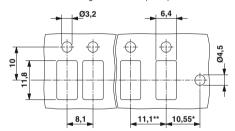
TMT (EX9,5)R marking material (see online catalog)

91



Drilling diagram

*Only when using the UW...-F flange plate
**Dimensions when using the DP-UW... spacer plate



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 4-POT-SL	3059757	50
Feed-through terminal block, with eng	agement pin	
UW 4-POT-SL/S	3059760	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

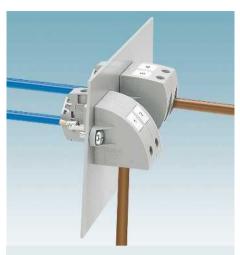
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

For all types

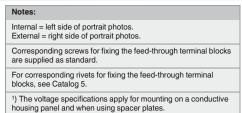
For UW 10 .../S

For UWV 10 .../S

Internal with screw, solder connection up to 76 A/16 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensa-
- Easy grouping with engagement pin ver-
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device



Accessories

separated

EBS 10-10 Order No.

0203137

Order No. 3074389

Flange plate

UW 10-F

Order No. 3074525

Order No.

Flange plate

UWV 10-F Order No. 3074606

3074415

Insertion bridge, can be

Spacer plate, 3 mm thick **DP-UW 10**

Spacer plate, 3 mm thick DP-UWV 10

Туре Screwdriver SZS 1,0 x 4,0 Order No. 1205066



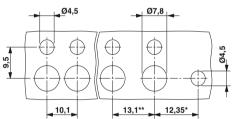
Feed-through terminal blocks, horizontal conductor connection

97

23,5	10,1
6.7 7 7 1-4	

Drilling diagram

* Only when using the UW...-F flange plate
** Dimensions when using the DP-UW... spacer plate



	Type
Description	Feed-thro
	UW 10
	Feed-thro

Description

Ordering data						
Туре	Order No.	Pcs. / Pkt.				
Feed-through terminal block						
UW 10	3073322	50				
Feed-through terminal block, with engagement pin						
UW 10/S	3073335	50				

ZB 10.../ZBF 10... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Technical data				
Technical data in accordance to IEC / DIN VI	DE			
Current/conductor cross section	[A] / [mm ²]			
Rated voltage	[V]			
Connection capacity				
Solid / stranded	[mm ²] / [mm ²] / AWG			
Stranded with ferrules without plastic sleeve	[mm ²]			
Stranded with ferrules with plastic sleeve	[mm ²]			
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm ²]			
Stranded with ferrules without plastic sleeve	[mm ²]			
Stranded with TWIN ferrule with plastic sleev	e [mm ²]			
Cross section with insertion bridge (solid/stra	inded) [mm²]			
Insulation coordination				
Surge voltage category / pollution degree				
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
Approval data (UL/CUL)	Use Group			
Nominal voltage	[V]			
Nominal current	[A]			
Connection capacity AWG	AWG			
Approval data (CSA)	Use Group			
Nominal voltage	[V]			
Nominal current	[A]			
Connection capacity AWG	AWG			
General data				
Stripping length	[mm]			
Terminal sleeve: Thread / Torque	-/[Nm]			
Insulation material				
Inflammability class according to UL 94				
Panel thickness	[mm]			

0.0 0				
2.5 - 10 / 2.5 - 10				
III/3	III/2	II / 2		
5001)	630¹)	1000¹)		
6 ¹)	6 ¹)	6 ¹)		
В	С	D		
300¹)	300 ¹)	600 ¹)		
65	65	5		
20 - 6	20 - 6	20 - 6		
В	С	D		
-	-	-		
-	-	-		
-	-	-		
11				
M4 / 1.5 - 1.8				
PA				
V0				
1 - 4				

76 / 16 // 57 / 10 5001) 0.5 - 16 / 0.5 - 10 / 20 - 6

0.5 - 10 0.5 - 10

0.5 - 4 / 0.5 - 4 0.5 - 2.5

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



Feed-through terminal blocks, vertical conductor connection



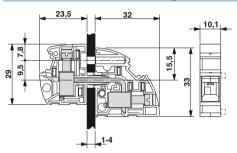
Molded feed-through terminal blocks, horizontal conductor connection, internal part with solder connection



Molded feed-through terminal blocks, vertical conductor connection, internal part with solder connection

@ **91**

Dimensional drawing



Drilling diagram

- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate
- Ø7,8 \oplus 04,5 10,1 13,1** 12,35*

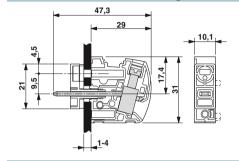
Ordering data		
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 10	3073403	50
Feed-through terminal block, with engagement pin		
UWV 10/S	3073416	50

ZB 10.../ZBF 10... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Dimensional drawing

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Drilling diagram

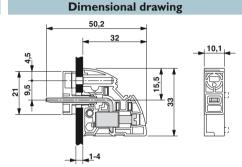
- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate
- Ø7,8 \oplus 10,1 12,35*

Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 10-POT	3073461	50
Feed-through terminal block, with enga	agement pin	
UW 10-POT/S	3073474	50

ZB 10.../ZBF 10... marking material (see Catalog 5)

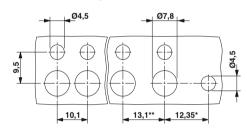
TMT (EX9,5)R marking material (see online catalog)

97



Drilling diagram

- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate



Orde	ering data	
Туре	Order I	No. Pcs. / Pkt.
Feed-through terminal block	ck	
UWV 10-POT	30735	26 50
Feed-through terminal block	ck, with engagement	pin
UWV 10-POT/S	30735	39 50

ZB 10.../ZBF 10... marking material (see Catalog 5)

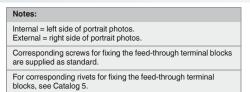
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Internal with screw, cable lug connection up to 101 A/25 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensa-
- Easy grouping with engagement pin ver-
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Technical data



www.phoenixcontact.net/products. 1) The voltage specifications apply for mounting on a conductive

Notes on connecting aluminum conductors can be found at:

housing panel and when using spacer plates.



Feed-through terminal blocks, horizontal conductor connection

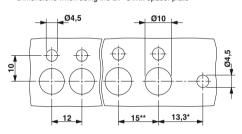
97

Descriptio

Dimensional drawing

Drilling diagram

* Only when using the UW...-F flange plate
** Dimensions when using the DP-UW... spacer plate



Accessories		
For all types	Туре	
į.	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
For UW 16/S		
	Spacer plate, 3 mm thick DP-UW 16 Order No. 3074392	
	Flange plate UW 16-F Order No. 3074538	
For UWV 16/S		
	Spacer plate, 3 mm thick DP-UWV 16 Order No. 3074428	
13	Flange plate UWV 16-F Order No. 3074619	

Technical data in accordance to IEC / DIN VI	DΕ
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	h the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	-/[Nm]
Insulation material	·
Inflammability class according to UL 94	
Panel thickness	[mm]

10	1 / 25 // 76 /	16	
	800¹)		
6 - 2	5/6-16/1	0 - 4	
	6 - 16		
	6 - 16		
2.	5 - 10 / 2.5 -	- 6	
-	4 - 6		
	4 - 6		
III/3	III/2	11/2	
800¹)	1000¹)	1000¹)	
8 ¹)	8 ¹)	8 ¹)	
В	С	D	
600 ¹)	6001)	-	
85	85	-	
10 - 4	10 - 4	-	
В	С	D	
-	-	-	
-	-	-	
-	-	-	
	16		
	M5 / 2.5 - 3		
	PA		
V0			
	1 - 6		

	Ordering date	ta	
	Туре	Order No.	Pcs. / Pkt.
n	Feed-through terminal block		
	UW 16	3073348	50
	Feed-through terminal block, with enga	agement pin	
	UW 16/S	3073351	50

ZB 12.../ZBF 12... marking material (see Catalog 5)

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



Feed-through terminal blocks, vertical conductor connection



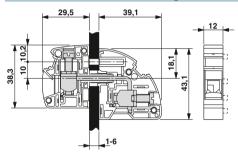
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 screw connection



Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 screw connection



Dimensional drawing



Drilling diagram

- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate
- Ø10 \oplus 13,3*

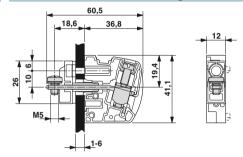
Ordering data		
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 16	3073419	50
Feed-through terminal block, with engagement pin		
UWV 16/S	3073432	50

ZB 12.../ZBF 12... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

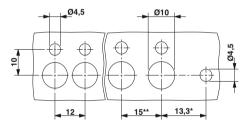
Dimensional drawing

*9*1



Drilling diagram

- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate

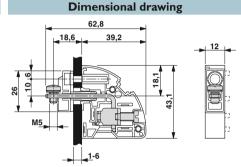


Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 16-POT	3073487	50
Feed-through terminal block, with eng	agement pin	
UW 16-POT/S	3073490	50

ZB 12.../ZBF 12... marking material (see Catalog 5)

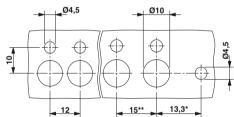
TMT (EX9,5)R marking material (see online catalog)

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Drilling diagram

- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 16-POT	3073542	50
Feed-through terminal block, with enga	agement pin	
UWV 16-POT/S	3073555	50

ZB 12.../ZBF 12... marking material (see Catalog 5)

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Internal with screw, cable lug connection up to 125 A/35 mm²



- Universal screw connection with screw
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensa-
- Easy grouping with engagement pin ver-
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device



www.phoenixcontact.net/products. 1) The voltage specifications apply for mounting on a conductive

Notes on connecting aluminum conductors can be found at:

housing panel and when using spacer plates.

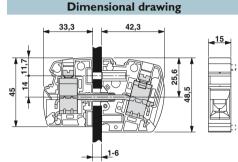


Feed-through terminal blocks, horizontal conductor connection

Accessories For all types Туре Screwdriver SZS 1,0 x 6,5 Order No. 1205079 For UW 25 .../S Spacer plate, 4 mm thick **DP-UW 25** Order No. 3074402 Flange plate UW 25-F Order No. 3074541 For UWV 25 .../S Spacer plate, 4 mm thick DP-UWV 25 Order No. 3074431 Flange plate UWV 25-F Order No. 3074622

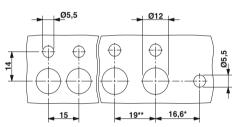
97

Desc



Drilling diagram

* Only when using the UW...-F flange plate
** Dimensions when using the DP-UW... spacer plate



lechnicai data	
Technical data in accordance to IEC / DIN VE	ΣE
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	h the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

125	/ 35 // 101	/ 25
	800 ¹)	
6 - 35	/ 10 - 25 /	10 - 2
	4 - 25	
	4 - 25	
2.	5 - 10 / 4 - 1	10
	2.5 - 10	
	2.5 - 10	
III/3	III/2	II / 2
800¹)	1000¹)	1000¹)
8 ¹)	81)	8 ¹)
В	С	D
6001)	6001)	-
112.5	112.5	-
10 - 2	10 - 2	-
В	С	D
-	-	-
-	-	-
-	-	-
	19	
	M5 / 4 - 4.5	
	PA	
V0		
	VU	

	Ordering data			
	Туре	Order No.	Pcs. / Pkt.	
cription	Feed-through terminal block			
	UW 25	3073364	25	
	Feed-through terminal block, with enga	agement pin		
	UW 25/S	3073377	25	

ZB 15.../ZBF 15... marking material (see Catalog 5)

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



Feed-through terminal blocks, vertical conductor connection



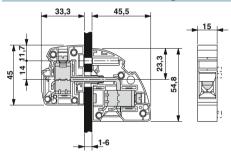
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M6 screw connection



Molded feed-through terminal blocks, vertical conductor connection, internal part with M6 screw connection



Dimensional drawing



Drilling diagram

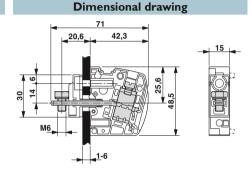
- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate
- Ø12 \oplus 16,6* 15

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 25	3073445	25
Feed-through terminal block, with engagement pin		
UWV 25/S	3073458	25

ZB 15.../ZBF 15... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

*9*1



Drilling diagram

- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate
- Ø12 \oplus 16,6*

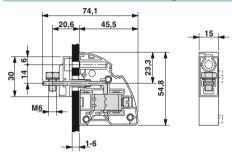
Ordering data		
Туре	Order No.	Pcs. / Pkt
Feed-through terminal block		
UW 25-POT	3073500	25
Feed-through terminal block, with eng	agement pin	
UW 25-POT/S	3073513	25

ZB 15.../ZBF 15... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

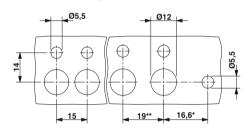
97

Dimensional drawing



Drilling diagram

- * Only when using the UW...-F flange plate
 ** Dimensions when using the DP-UW... spacer plate



Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 25-POT	3073568	25
Feed-through terminal block, with enga	agement pin	
UWV 25-POT/S	3073571	25

ZB 15.../ZBF 15... marking material (see Catalog 5)

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Internal with screw, cable lug connection up to 150 A/50 mm²



- Universal screw connection with screw
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensa-
- Easy grouping with engagement pin ver-
- Touch-proof insulating housing
- Spacer plates increase air and creepage distances

Notes:	
Internal = left side of portrait photos. External = right side of portrait photos.	
Notes on connecting aluminum conductors can be found at: www.phoenixcontact.net/products.	

Α	ccessories	
For all types	Туре	
9	Insertion profile UKH 50 EP Order No. 3009228	
•	Screwdriver SZS 1.2X8.0 Order No. 1205082	
Only for HDFK 50		
	Spacer plate DP-HDFK 50/7.2 Order No. 0709990	

lechnicai data	
Technical data in accordance to IEC / DIN VE	DE
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

HDFK 50		HDFKV 50				
150	/ 50 // 150 /	50	150	/ 50 // 150	/ 50	
	690			690		
16 - 5	0 / 16 - 50 / 0	6 - 1/0	16 - 50	0/16-50/	6 - 1/0	
	10 - 50			10 - 50		
	10 - 50			10 - 50		
6	- 16 / 10 - 1	6	6	- 16 / 10 - 1	6	
	6 - 16			6 - 16		
	6 - 10			6 - 10		
III/3	III/2	11/2	III/3	III/2	11/2	
690	1000	1000	690	1000	1000	
6	6	6	6	6	6	
В	С	D	В	С	D	
600	600		600	600	-	
150	150		150	150	-	
6 - 1/0	6 - 1/0	-	6 - 1/0	6 - 1/0	-	
В	С	D	В	С	D	
600	600		600	600	-	
125	125		125	125	-	
6 - 1/0	6 - 1/0		6 - 1/0	6 - 1/0	-	
	24			24		
	M6/6-8		M6/6-8			
	PA			PA		
	V0		VO			
	1-6		1 - 6			
	. 0			. 0		

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



Horizontal conductor connection

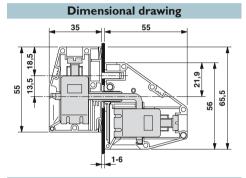


Vertical conductor connection



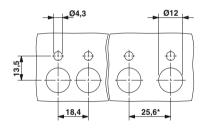
Dimensional drawing 22

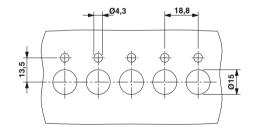
® € KEUR 🗫 🕲 CB.



Drilling diagram







Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Feed-through terminal block			
HDFK 50	0708739	10	
Feed-through terminal block, with engagement pin			
HDFK 50/Z	0705017	10	

UC-TM 12 marking material for marking the center and lateral

groove (see Catalog 5)
ZB 15 marking material for marking the center and lateral groove (see Catalog 5)

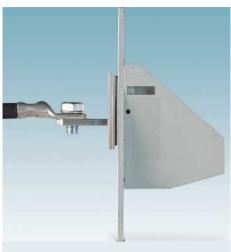
Ordering data		
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 50	0708522	10
Feed-through terminal block, with engagement pin		
HDFKV 50/Z	0714095	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
2B 15 marking material for marking the center and lateral groove (see Catalog 5)

^{*} Dimensions when using the DP-HDFK 50/7.2 spacer plate

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Internal with screw, cable lug connection up to 232 A/95 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin ver-
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing

Notes:	
	eft side of portrait photos. right side of portrait photos.
	connecting aluminum conductors can be found at: enixcontact.net/products.
	r metal panels from 2.5 mm to 5 mm. r metal panels from 5 mm to 6 mm.

	Accessories	ı
For all types	Type /P and HDFKV 50-VP	
Only for HDFK 50-	Insertion profile UKH 50 EP Order No. 3009228	
	Screwdriver SZS 1.2X8.0 Order No. 1205082	
Only for HDFKV 95		
4	Insertion profile UKH 95 EP Order No. 3009231	
1	Allen wrench VDE-ISS 6 Order No. 1201934	
	,	

Technical data		Н	DFK 50-VP	•	Н	DFKV 50-V	'P	Н	DFK 95-F-\	/P
Technical data in accordance to IEC / DIN VDE										
Current/conductor cross section	[A] / [mm ²]	150	/ 50 // 150 /	50	150	/ 50 // 150	/ 50	232	2 / 95 // 232	/ 95
Rated voltage	[V]		690			690			630 ¹)	
Connection capacity										
Solid / stranded [mm	n²] / [mm²] / AWG	16 - 50	0/16-50/	6 - 1/0	16 - 50	0/16-50/	6 - 1/0	35 - 9	5 / 35 - 95 /	4 - 3/0
Stranded with ferrules without plastic sleeve	[mm ²]		10 - 50			10 - 50			30 - 95	
Stranded with ferrules with plastic sleeve	[mm ²]		10 - 50			10 - 50			30 - 95	
Multi-conductor connection capacity (two conductors with the	same cross section)									
Solid / stranded	[mm ²]	6	- 16 / 10 - 1	6	6	- 16 / 10 - 1	6	25	5 - 35 / 25 - 3	35
Stranded with ferrules without plastic sleeve	[mm ²]		6 - 16			6 - 16			16 - 35	
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		6 - 10			6 - 10			-	
Insulation coordination										
Surge voltage category / pollution degree		III/3	III/2	11/2	III/3	III/2	II / 2	III/3	III/2	II / 2
Rated insulation voltage	[V]	690	1000	1000	690	1000	1000	630	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]	600	600	-	600	600	-	600	600	-
Nominal current	[A]	150	150	-	150	150	-	230	230	-
Connection capacity AWG	AWG	6 - 1/0	6 - 1/0	-	6 - 1/0	6 - 1/0	-	4 - 4/0	4 - 4/0	-
Approval data (CSA)	Use Group	В	С	D	В	С	D	В	С	D
Nominal voltage	[V]	600	600	-	600	600	-	600	600	-
Nominal current	[A]	125	125	-	125	125	-	200	200	-
Connection capacity AWG	AWG	6 - 1/0	6 - 1/0	-	6 - 1/0	6 - 1/0	-	2 - 4/0	2 - 4/0	-
General data										
Stripping length	[mm]		24			24			27	
Terminal sleeve: Thread / Torque	- / [Nm]		M6/6-8			M6/6-8			M8 / 15 - 20)
Cable lug connection: Thread / tighten-										
ing torque										
Insulation material			PA			PA			PA	
Inflammability class according to UL 94			V0		V0			V0		
Panel thickness	[mm]		1 - 6			1 - 6			1 - 6	

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



50 mm² feed-through terminal blocks, horizontal conductor connection



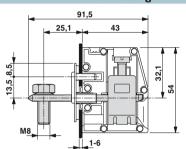
50 mm² feed-through terminal blocks, vertical conductor connection



95 mm² feed-through terminal blocks, horizontal conductor connection, external terminal half with screw flange

® PG KEUR ¶ ® CB.

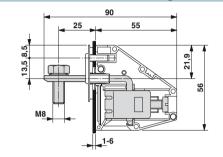
Dimensional drawing



Drilling diagram

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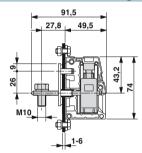
Dimensional drawing



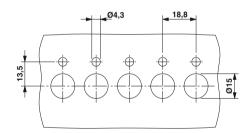
Drilling diagram

@ CP 9N @

Dimensional drawing



Drilling diagram



Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
HDFK 50-VP	0709123	10		
Feed-through terminal block, with engagement pin				
HDFK 50-VP/Z	0711218	10		

UC-TM 12 marking material for marking the center and lateral

groove (see Catalog 5)
2B 15 marking material for marking the center and lateral groove (see Catalog 5)

	▶ • Ø4,3	₹ 18,8
3,5	· · · · ·	

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
HDFKV 50-VP	0708580	10		
Feed-through terminal block, with engagement pin				
HDFKV 50-VP/Z	0717212	10		

UC-TM 12 marking material for marking the center and lateral

groove (see Catalog 5)
ZB 15 marking material for marking the center and lateral groove (see Catalog 5)

	21		▼ 2	5	<u>6</u> ,7
9	 0	0	-ф-	-ф-	
10 4 6,6	 0	0			26 17,2
	 0	0			

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
HDFK 95-F-VP	0709916	10		
Feed-through terminal block, with engagement pin				
HDEK 95-E-VP/7	0717076	10		

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)

ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Internal with screw, cable lug connection up to 232 A/95 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensa-
- Easy grouping with engagement pin ver-
- Spacer plates increase air and creepage distances
- Touch-proof insulating housing

Notes:	
	side of portrait photos. ht side of portrait photos.
	necting aluminum conductors can be found at: ixcontact.net/products.
1) 1000 V for	metal panels from 1 mm to 2.5 mm

800 V for metal panels larger than 2.5 mm up to 5 mm. 690 V for metal panels larger than 5 mm up to 6 mm.

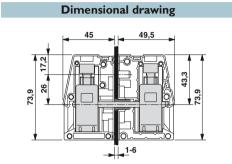


Horizontal conductor connection



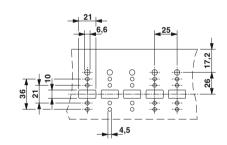


Description



Drilling diagram

* Dimensions when using the DP-HDFK 95/15 spacer plate



Technical data	
Technical data in accordance to IEC / DIN VI	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleev	e [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

222	/ 95 // 232	/ 05	
202	10001)	33	
	1000-)		
35 - 95	5 / 35 - 95 /	4 - 2/0	
	25 - 95		
	25 - 95		
25	- 35 / 25 - 3	35	
	16 - 35		
	-		
III/3	III/2	II / 2	
1000	1000	1000	
8	6	6	
В	С	D	
600	600	-	
230	230	-	
4 - 4/0	4 - 4/0	-	
В	С	D	
600	600	-	
200	200	-	
2 - 4/0	2 - 4/0	-	
	27		
	M8 / 15 - 20		
PA			
V0			
	1 - 6		

Ordering data				
Order No.	Pcs. / Pkt.			
Feed-through terminal block				
0709534	10			
Feed-through terminal block, with engagement pin				
0717364	10			
	Order No. 0709534 agement pin			

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



Horizontal conductor connection, external terminal half with screw flange



Vertical conductor connection

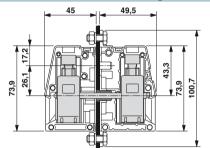
Dimensional drawing



Vertical conductor connection, external terminal half with screw flange



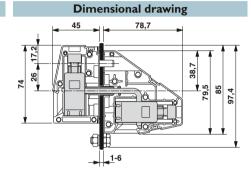
Dimensional drawing



@ CP 91 @

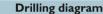


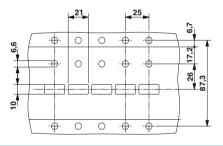
38,7



Drilling diagram







Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
HDFK 95-F	0709644	10		
Feed-through terminal block, with engagement pin				
HDFK 95-F/Z	0714037	10		

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

21

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
HDFKV 95	0709547	10		
Feed-through terminal block, with engagement pin				
HDFKV 95/Z	0714105	10		

UC-TM 12 marking material for marking the center and lateral

groove (see Catalog 5)
2B 12 marking material for marking the center and lateral groove (see Catalog 5)

↓	G	96,6	25	·	
17,2	- 0	0	+	+!	
56			 	+	9
/ 	21				'

Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 95-F	0709673	10
Feed-through terminal block, with enga	agement pin	
HDFKV 95-F/Z	0714118	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)

ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

Vertical double connection outside up to 152 A/35 mm²



- Universal screw connection with screw locking
- Ideal for looping through power supply cables
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensa-
- Easy grouping with engagement pin versions
- Touch-proof insulating housing

Notes:
Internal = left side of portrait photos. External = right side of portrait photos.
Note: With the HDFKV-TWIN, the terminal space must be completely open when joining both terminal block halves.
The max. load current must not be exceeded by the total current of all connected conductors.
²) 400 V for metal panels from 1 mm to 2.5 mm. 250 V for metal panels larger than 2.5 mm up to 4 mm. 500 V for plastic panels from 1 mm to 4 mm.

A	ccessories
For all types	Туре
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066
Only for HDFK 10-TWIN	
	Insertion bridge EB 2-10 Order No. 0203153
	Insertion bridge EB 3-10 Order No. 0203328
Million	Insertion bridge EB 10-10 Order No. 0203137

lechnicai data	
T. I.	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm²]
Rated voltage	[V]
Connection capacity	
	/ [mm²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the sam	,
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/stranded)	[mm ²]
nsulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
nsulation material	
nflammability class according to UL 94	
Panel thickness	

HDFKV 10-TWIN		HDFKV 25-TWIN				
	/ 16 // 571)	// 10	125 ¹)	/ 35 // 1011	//25	
	4002)			500		
0.5 - 1	6 / 0.5 - 10	/ 20 - 6	6 - 35	5/10-25/	10 - 2	
	0.5 - 10			4 - 25		
	0.5 - 10			4 - 25		
0	.5 - 4 / 0.5 -	4	2.	5 - 10 / 4 - 1	10	
	0.5 - 2.5			2.5 - 10		
	0.5 - 6			2.5 - 10		
2.5	5 - 10 / 2.5 -	10		-/-		
III/3	III/2	II / 2	III/3	III/2	II / 2	
400	1000	1000	500	1000	1000	
6	6	6	6	6	6	
В	С	D	В	С	D	
	600	300	600	600	-	
	65	10	115	115	-	
-	24 - 6	24 - 6	8 - 2	8-2	-	
В	С	D	В	С	D	
. <u>-</u>	-	-	600	600	-	
	-	-	100	100	-	
-	-	-	8 - 4	8 - 4	-	
	11			19		
	M4 / 1.5 - 1.8		M5 / 4 - 4.5			
	PA			PA		
	V0			V0		
1 - 4			1 - 6			

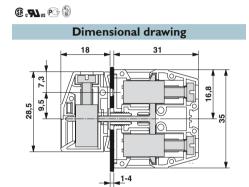
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

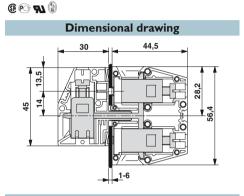




10/16 mm² TWIN feed-through terminal blocks

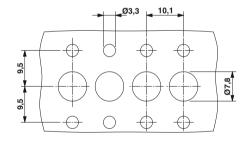
25/35 mm² TWIN feed-through terminal blocks

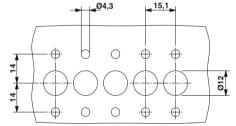




Drilling diagram

Drilling diagram





Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 10-TWIN	0709550	50
UC-TM 8 marking material for marking groove (see Catalog 5)		

groove (see Catalog 5)

Ordering dat	ta	
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 25-TWIN	0709563	25

UC-TM 10 marking material for marking the center and lateral groove (see Catalog 5)
ZB 10 marking material for marking the center and lateral groove (see Catalog 5)

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

With captive cover nut up to 76 A/16 mm²



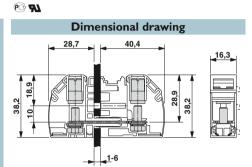
- Quick and easy conductor connection, thanks to hinged cover flaps with captive clamping nut
- Both terminal halves can be easily assembled by simply snapping them to-
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spring-loaded spacers protect the bolt connection against loosening

Notes:	
	le of portrait photos. side of portrait photos.
Corresponding are supplied as	screws for fixing the feed-through terminal blocks standard.
For correspond blocks, see Cat	ng rivets for fixing the feed-through terminal alog 5.



Feed-through terminal blocks, horizontal conductor connection

	Accessories	Accessories			
For all types	Type Screwdriver				
	SZS 0,6 x 3,5 Order No. 1205053				
For RW 5/S					
	Flange plate RW 5-F Order No. 3075155				
For RWV 5/S					
	Flange plate RWV 5-F Order No. 3075317				
	·				



Ø4,3 14,4 = 16,3 16,45*

Drilling diagram

* Only when using the RW...-F flange plate

Description

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity, DIN 46234	
Cable lugs, DIN 46234	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity DIN 46235	
Cable lugs DIN 46235	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity, DIN 46237	
Cable lugs DIN 46237	[mm ²]
Connection bolt / hole diameter / width	[mm]
Color code	red
	blue
	yellow
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Bolt thread/tightening torque	-/[Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

76/16//76/16 1000 0.5 - 16 5/5.3/11 6 - 10 5/5.3/9 1 - 6 5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26 - 6 26 - 6 - B C D M5/2.5 - 3 PAA V0 1 - 6			
1000 0.5 - 16 5/5.3/11 6 - 10 5/5.3/9 1 - 6 5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26 - 6 26 - 6 - B C D M5/2.5 - 3 PA V0			
0.5 - 16 5/5.3/11 6 - 10 5/5.3/9 1 - 6 5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 8 B C D 600 600 - 65 65 - 26 - 6 26 - 6 - B C D M5/2.5 - 3 PA V0	76	6/16//76/	16
5/5.3/11 6-10 5/5.3/9 1-6 5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA V0		1000	
5/5.3/11 6-10 5/5.3/9 1-6 5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA V0			
5/5.3/11 6-10 5/5.3/9 1-6 5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA V0		0.5 - 16	
1-6 5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA		5/5.3/11	
1-6 5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA			
1-6 5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA		6 - 10	
5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA V0		5/5.3/9	
5/5.3/10 1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA V0			
1.00 mm² 2.50 mm² 6.00 mm² III/3 III/2 II/2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA V0			
2.50 mm ² 6.00 mm ² III / 3 III / 2 II / 2 1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26 - 6 26 - 6 - B C D M5 / 2.5 - 3 PA V0			
6.00 mm² III / 3		1.00 mm ²	
III / 3		2.50 mm ²	
1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA		6.00 mm ²	
1000 1000 1000 8 8 8 8 B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA			
8 8 8 8 8 8 B C D C D C C D C C D C C D C C D C C D C C D C C D C C D C C D C C D C C D C C C D C C D C C C D C C D C C D C C C D C C D C C D C C D C C D C C D C C D C D C C D C			II / 2
B C D 600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA	1000	1000	
600 600 - 65 65 - 26-6 26-6 - B C D M5/2.5-3 PA V0	8		8
65 65 - 26 - 6 26 - 6 - B C D M5 / 2.5 - 3 PA V0			D
26-6 26-6 - B C D M5/2.5-3 PA V0	600	600	-
B C D M5/2.5-3 PA V0			-
			-
PA V0	В	С	D
PA V0	-	-	-
PA V0	-	-	-
PA V0	-	-	-
PA V0			
VO			
1 - 6			
		1 - 6	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RW 5	3073584	10
Feed-through terminal block, with engagement pin		
RW 5/S	3073597	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5) ZB 12.../ZBF 12... marking material for marking the lateral groove (see Catalog 5) TMT (EX9,5)R marking material (see online catalog)

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



Feed-through terminal blocks, vertical conductor connection



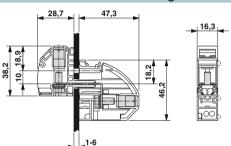
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 bolt connection

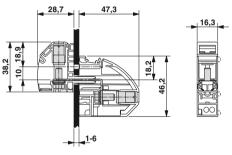


Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 bolt connection

@ **91**

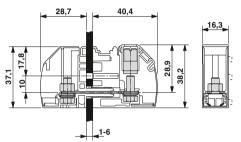
Dimensional drawing





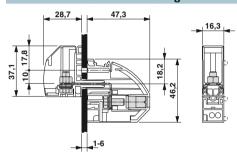
Dimensional drawing

R 99



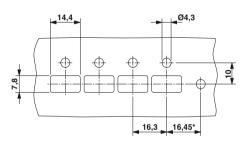
@ **91**

Dimensional drawing



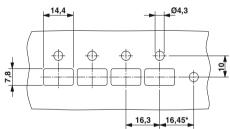
Drilling diagram

* Only when using the RW...-F flange plate



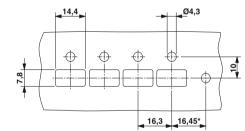
Drilling diagram

* Only when using the RW...-F flange plate



Drilling diagram

* Only when using the RW...-F flange plate



Ordering data

9			
Туре	Order No.	Pcs. / Pkt.	
Feed-through terminal block			
RWV 5	3073746	10	
Feed-through terminal block, with engagement pin			
RWV 5/S	3073759	10	

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)

ZB 12.../ZBF 12... marking material for marking the lateral groove (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Ordering data

T	Oud an Na	D / DI+
Туре	Order No.	PCS. / PKt.
Feed-through terminal block, with sponge rubber seal		

RW 5-POT	3073665	10
Feed-through terminal block, with engasponge rubber seal	agement pin a	nd
RW 5-POT/S	3073678	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5) ZB 12.../ZBF 12... marking material for marking the lateral

groove (see Catalog 5) TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type Order No. Pcs. / Pkt. Feed-through terminal block, with sponge rubber seal 3073788 **RWV 5-POT** 10 Feed-through terminal block, with engagement pin and sponge rubber seal RWV 5-POT/S

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)

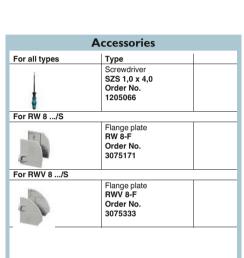
(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

With captive cover nut up to 125 A/35 mm²



- Quick and easy conductor connection, thanks to hinged cover flaps with captive clamping nut
- Both terminal halves can be easily assembled by simply snapping them to-
- Automatic panel thickness compensation
- Easy grouping with engagement pin ver-
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spring-loaded spacers protect the bolt connection against loosening

Notes:	
Internal = left side of External = right side	of portrait photos. e of portrait photos.
Corresponding scr are supplied as sta	ews for fixing the feed-through terminal blocks andard.
For corresponding blocks, see Catalo	rivets for fixing the feed-through terminal g 5.

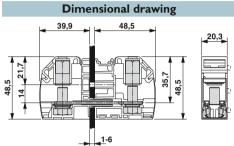




Feed-through terminal blocks, horizontal conductor connection

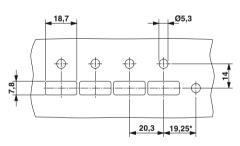


Description



Drilling diagram

* Only when using the RW...-F flange plate



Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity, DIN 46234	
Cable lugs, DIN 46234	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity DIN 46235	
Cable lugs DIN 46235	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity, DIN 46237	
Cable lugs DIN 46237	[mm ²]
Connection bolt / hole diameter / width	[mm]
Color code	red
	blue
	yellow
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Bolt thread/tightening torque	-/[Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

125	/ 35 // 125	/ 35
	1000	
	2.5 - 35	
	8/8.4/16	
	16 - 25	
	8/8.4/14	
	2.5 - 6	
	8/8.4/14	
	2.50 mm ²	
	6.00 mm ²	
	0.00 111111	
III/3	III/2	11/2
1000	1000	1000
8	8	8
В	С	D
600	600	•
115	115	-
14 - 2	14 - 2	-
В	С	D
-	-	-
-	-	-
-	-	-
	M8 / 4.5 - 5	
	PA	
	V0	
	1-6	
	. •	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RW 8	3073607	10
Feed-through terminal block, with engagement pin		
RW 8/S	3073610	10

ZB 20,3 marking material for marking the center groove (see ZB 16.../ZBF 16... marking material for marking the lateral groove (see Catalog 5)

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



Feed-through terminal blocks, vertical conductor connection

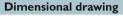


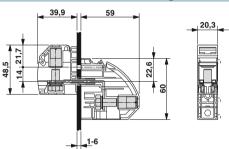
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M8 bolt connection

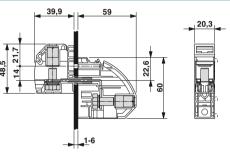


Molded feed-through terminal blocks, vertical conductor connection, internal part with M8 bolt connection



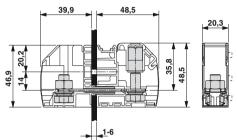






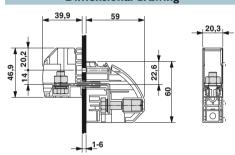
Dimensional drawing

R 99



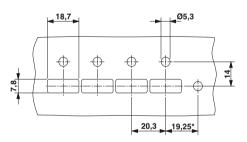
@ **91**

Dimensional drawing



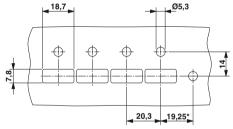
Drilling diagram

* Only when using the RW...-F flange plate



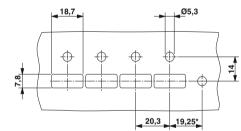
Drilling diagram

* Only when using the RW...-F flange plate



Drilling diagram

* Only when using the RW...-F flange plate



Ordering data		
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWV 8	3073762	10
Feed-through terminal block, with engagement pin		
RWV 8/S	3073775	10

ZB 20,3 marking material for marking the center groove (see

ZB 16.../ZBF 16... marking material for marking the lateral groove (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Ordering data

Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		

RW 8-POT	3073681	10
Feed-through terminal block, with engagement pin and		
sponge rubber seal		
RW 8-POT/S	3073694	10

ZB 20,3 marking material for marking the center groove (see

ZB 16.../ZBF 16... marking material for marking the lateral groove (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Ordering data

Туре	Order No.	Pcs. / Pkt.	
Feed-through terminal block, with sponge rubber seal			
RWV 8-POT	3073801	10	
Feed-through terminal block, with engagement pin and sponge rubber seal			

ZB 20,3 marking material for marking the center groove (see

3073814

TMT (EX9,5)R marking material (see online catalog)

RWV 8-POT/S

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

In open housing up to 76 A/16 mm²



- Both terminal halves can be easily assembled by simply snapping them to-
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Spring-loaded spacers protect the bolt connection against loosening

Notes:	
	side of portrait photos. ht side of portrait photos.
Correspondi are supplied	ng screws for fixing the feed-through terminal blocks as standard.
For correspo	nding rivets for fixing the feed-through terminal Catalog 5.

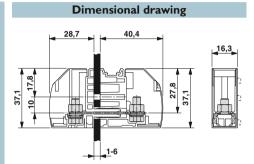


Feed-through terminal blocks, horizontal conductor connection

@ **A**

Description

For all types	Туре	
787	Socket wrench	
	SHN 8	
2	Order No.	
4	1209868	
For RWO 5/S		
No.	Flange plate	
	RW 5-F	
400	Order No.	
E -	3075155	
For RWOV 5/S		
(Pro-	Flange plate	
m Sign	RWV 5-F	
1	Order No.	
	3075317	



Ø4,3 14,4 =

16,3 16,45*

Drilling diagram

* Only when using the RW...-F flange plate

Technical data		
Technical data in accordance to IEC / DIN VDE		
Current/conductor cross section	[A] / [mm ²]	
Rated voltage	[V]	
Connection capacity, DIN 46234		
Cable lugs, DIN 46234	[mm ²]	
Connection bolt / hole diameter / width	[mm]	
Connection capacity DIN 46235		
Cable lugs DIN 46235	[mm ²]	
Connection bolt / hole diameter / width	[mm]	
Connection capacity, DIN 46237		
Cable lugs DIN 46237	[mm ²]	
Connection bolt / hole diameter / width	[mm]	
Color code	red	
	blue	
	yellow	
Insulation coordination		
Surge voltage category / pollution degree		
Rated insulation voltage	[V]	
Rated surge voltage	[kV]	
Approval data (UL/CUL)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
Approval data (CSA)	Use Group	
Nominal voltage	[V]	
Nominal current	[A]	
Connection capacity AWG	AWG	
General data		
Bolt thread/tightening torque	- / [Nm]	
Insulation material		
Inflammability class according to UL 94		
Panel thickness	[mm]	

76	6/16//76/	16
	1000	
	0.5 - 16	
	5/5.3/11	
	6 - 10	
	6 - 10 5 / 5.3 / 9	
	1 - 6	
	5/5.3/10	
	1.00 mm ²	
	2.50 mm ²	
	6.00 mm ²	
	0.00 111111	
III / O	III. / O	11.70
III / 3 1000	III / 2 1000	II / 2 1000
8	8	8
В	С	D
600	600	-
65	65	-
26 - 6	26 - 6	-
В	С	D
-	-	-
-	-	-
-	-	-
	M5 / 2.5 - 3	
	PA	
	V0	
	1-6	
	. 0	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWO 5	3056116	10
Feed-through terminal block, with engagement pin		
RWO 5/S	3056129	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



Feed-through terminal blocks, vertical conductor connection



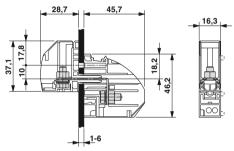
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 bolt connection



Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 bolt connection

R 99

Dimensional drawing

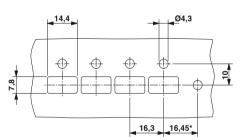


Drilling diagram

* Only when using the RW...-F flange plate

Type

Feed-through terminal block



RWOV 5	3056271	10
Feed-through terminal block, with engage	agement pin	
RWOV 5/S	3056284	10

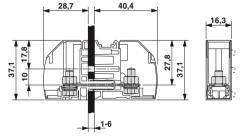
Ordering data

Order No. Pcs. / Pkt.

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)

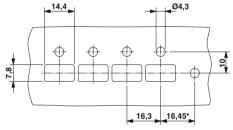
TMT (EX9,5)R marking material (see online catalog)

Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



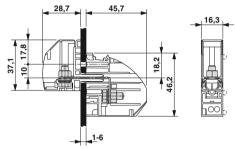
Ordering data

Туре	Order No.	Pcs. / Pkt.	
Feed-through terminal block, with sponge rubber seal			
RWO 5-POT	3056190	10	
Feed-through terminal block, with engagement pin and sponge rubber seal			
RWO 5-POT/S	3056200	10	

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)

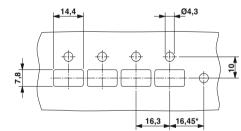
TMT (EX9,5)R marking material (see online catalog)

Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Ordering data

Order No. Pcs. / Pkt. Feed-through terminal block, with sponge rubber seal 3056310 **RWOV 5-POT** 10 Feed-through terminal block, with engagement pin and sponge rubber seal

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

RWOV 5-POT/S

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

In open housing up to 125 A/35 mm²



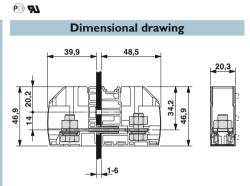
- Both terminal halves can be easily assembled by simply snapping them to-
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Spring-loaded spacers protect the bolt connection against loosening

Notes:	
	e left side of portrait photos. = right side of portrait photos.
	onding screws for fixing the feed-through terminal blocks lied as standard.
	esponding rivets for fixing the feed-through terminal ee Catalog 5.



Feed-through terminal blocks, horizontal conductor connection

For all types	Туре	
	Socket wrench SHN 13 Order No. 1209923	
For RWO 8/S		
	Flange plate RW 8-F Order No. 3075171	
For RWOV 8/S		
P	Flange plate RWV 8-F Order No. 3075333	



Ø5,3 18,7 20,3 19,25*

Drilling diagram

* Only when using the RW...-F flange plate

Technical data		
Technical data in accordance to IEC / DIN VDE		
Current/conductor cross section	[A] / [mm ²]	125 / 35 // 12
Rated voltage	[V]	1000
Connection capacity, DIN 46234		
Cable lugs, DIN 46234	[mm ²]	2.5 - 35
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 1
Connection capacity DIN 46235		
Cable lugs DIN 46235	[mm ²]	16 - 25
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 1
Connection capacity, DIN 46237		
Cable lugs DIN 46237	[mm ²]	2.5 - 6
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 1
Color code	red	-

Cable lugs DIN 46235	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity, DIN 46237	
Cable lugs DIN 46237	[mm ²]
Connection bolt / hole diameter / width	[mm]
Color code	red
	blue
	yellow
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Bolt thread/tightening torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

125 / 35 // 125 / 35			
	1000		
	2.5 - 35		
	8 / 8.4 / 16		
	16 - 25		
	8 / 8.4 / 14		
	2.5 - 6		
	8 / 8.4 / 14		
	-		
	2.50 mm ²		
	6.00 mm ²		
III/3	III/2	II / 2	
1000	1000	1000	
8	8	8	
В	С	D	
600	600	-	
115	115	-	
14 - 2	14 - 2	-	
В	С	D	
-	-	-	
-	-	-	
-	-	-	
	M8 / 4.5 - 5		
PA			
V0			
	1 - 6		

	Ordering data			
	Туре	Order No.	Pcs. / Pkt.	
ption	Feed-through terminal block			
	RWO 8	3056132	10	
	Feed-through terminal block, with eng	agement pin		
	RWO 8/S	3056145	10	

Descrip

ZB 20,3 marking material for marking the center groove (see TMT (EX9,5)R marking material (see online catalog)

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



Feed-through terminal blocks, vertical conductor connection



Molded feed-through terminal blocks, horizontal conductor connection, internal part with M8 bolt connection



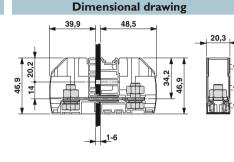
Molded feed-through terminal blocks, vertical conductor connection, internal part with M8 bolt connection

R 99

Dimensional drawing

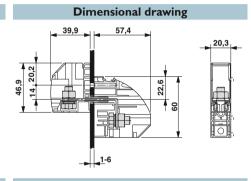
Drilling diagram

* Only when using the RW...-F flange plate



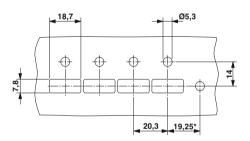
Drilling diagram

* Only when using the RW...-F flange plate



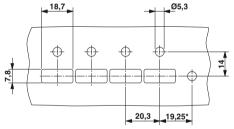
Drilling diagram

* Only when using the RW...-F flange plate



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Feed-through terminal block			
RWOV 8	3056297	10	
Feed-through terminal block, with engagement pin			
RWOV 8/S	3056307	10	
ZB 20,3 marking material for marking the center groove (see			

TMT (EX9,5)R marking material (see online catalog)

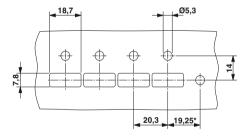


Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Feed-through terminal block, with sponge rubber seal			

RWO 8-POT 3056213 10 Feed-through terminal block, with engagement pin and sponge rubber seal RWO 8-POT/S

ZB 20,3 marking material for marking the center groove (see

TMT (EX9,5)R marking material (see online catalog)



Ordering data

Order No. Pcs. / Pkt. Feed-through terminal block, with sponge rubber seal

3056336 **RWOV 8-POT** Feed-through terminal block, with engagement pin and sponge rubber seal

ZB 20,3 marking material for marking the center groove (see

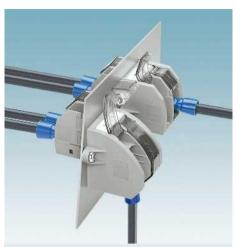
TMT (EX9,5)R marking material (see online catalog)

RWOV 8-POT/S

10

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

With transparent cover up to 76 A/16 mm²



- Both terminal halves can be easily assembled by simply snapping them to-
- Automatic panel thickness compensa-
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing with transparent cover
- Spring-loaded spacers protect the bolt connection against loosening

Notes:	
	e of portrait photos. ide of portrait photos.
Corresponding s are supplied as s	crews for fixing the feed-through terminal blocks standard.
For correspondir blocks, see Cata	ng rivets for fixing the feed-through terminal log 5.

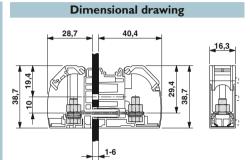


Feed-through terminal blocks, horizontal conductor connection

R 99

Description

	Accessories	
For all types	Туре	
4	Socket wrench SHN 8 Order No. 1209868	
For RWO 5/S		,
	Flange plate RW 5-F Order No. 3075155	
For RWOV 5/S		
	Flange plate RWV 5-F Order No. 3075317	



Ø4,3 14,4 =

Drilling diagram

* Only when using the RW...-F flange plate

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity, DIN 46234	
Cable lugs, DIN 46234	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity DIN 46235	
Cable lugs DIN 46235	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity, DIN 46237	
Cable lugs DIN 46237	[mm ²]
Connection bolt / hole diameter / width	[mm]
Color code	red
	blue
	yellow
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]

76	/16//76/	16	
	1000		
	0.5 - 16 5 / 5.3 / 11		
	5/5.3/11		
	6 - 10		
	5/5.3/9		
	1 - 6		
	5/5.3/10		
	1.00 mm ²		
	2.50 mm ²		
	6.00 mm ²		
III/3	III/2	II / 2	
1000	1000	1000	
8	8	8	
В	С	D	
600	600	-	
65	65	-	
26 - 6	26 - 6	-	
В	С	D	
-	-	-	
-	-	-	
-	-	-	
	M5 / 2.5 - 3		
PA			
V0			
	1 - 6		

[A] AWG

-/[Nm]

[mm]

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
Feed-through terminal block				
RWO 5-TC	3074910	10		
Feed-through terminal block, with engagement pin				
RWO 5-TC/S	3074923	10		

16,3 16,45*

ZB 16 marking material for marking the center groove (see Catalog 5) TMT (EX9,5)R marking material (see online catalog)

Nominal current

Insulation material

Panel thickness

Connection capacity AWG General data

Bolt thread/tightening torque

Inflammability class according to UL 94

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



Feed-through terminal blocks, vertical conductor connection



Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 bolt connection



Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 bolt connection

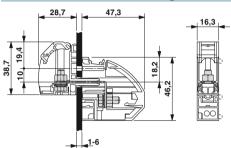


Type

RWOV 5-TC

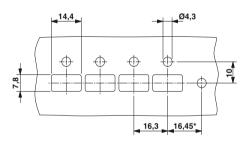
Feed-through terminal block

Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Ordering data

Order No. Pcs. / Pkt.

10

3075074

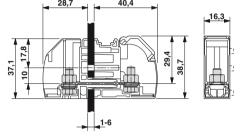
RWOV 5-TC/S	3075087	10
ZB 16 marking material for marking the	center groov	e (see

Feed-through terminal block, with engagement pin

Catalog 5) TMT (EX9,5)R marking material (see online catalog)

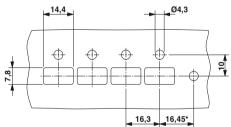
R 99

Dimensional drawing



Drilling diagram

Only when using the RW...-F flange plate



Ordering data

Order No. Pcs. / Pkt. Feed-through terminal block, with sponge rubber seal

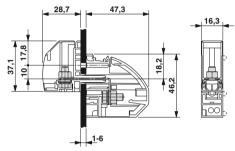
RWO 5-POT-TC	3074994	10		
Feed-through terminal block, with engagement pin and				
sponge rubber seal				
RWO 5-POT-TC/S	3075003	10		

ZB 16 marking material for marking the center groove (see

TMT (EX9,5)R marking material (see online catalog)

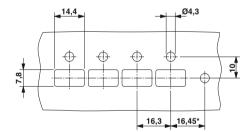
@ **9**1

Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Ordering data

Order No. Pcs. / Pkt. Feed-through terminal block, with sponge rubber seal

RWOV 5-POT-TC 3075113 10 Feed-through terminal block, with engagement pin and sponge rubber seal RWOV 5-POT-TC/S

ZB 16 marking material for marking the center groove (see

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

With transparent cover up to 125 A/35 mm²

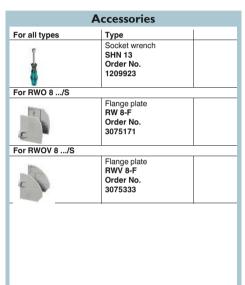


- Both terminal halves can be easily assembled by simply snapping them to-
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing with transparent cover
- Spring-loaded spacers protect the bolt connection against loosening

Notes:	
Internal = left side of portra External = right side of por	
Corresponding screws for are supplied as standard.	fixing the feed-through terminal blocks
For corresponding rivets for blocks, see Catalog 5.	or fixing the feed-through terminal



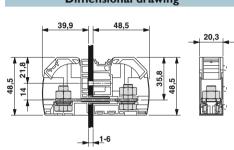
Feed-through terminal blocks, horizontal conductor connection





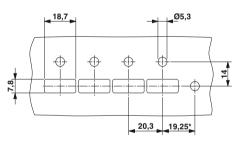
P

Description



Drilling diagram

* Only when using the RW...-F flange plate



Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity, DIN 46234	
Cable lugs, DIN 46234	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity DIN 46235	
Cable lugs DIN 46235	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity, DIN 46237	
Cable lugs DIN 46237	[mm ²]
Connection bolt / hole diameter / width	[mm]
Color code	red
	blue
	yellow
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Bolt thread/tightening torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

125	/ 35 // 125	/ 35
	1000	
	2.5 - 35	
	8 / 8.4 / 16	
	16 - 25	
	8 / 8.4 / 14	
	2.5 - 6	
	8 / 8.4 / 14	
	-	
	2.50 mm ²	
	6.00 mm ²	
III/3	III/2	11/2
1000	1000	1000
8	8	8
В	С	D
600	600	-
115	115	-
14 - 2	14 - 2	-
В	С	D
-	-	-
-	-	-
-	-	-
	M8 / 4.5 - 5	
	PA	
	V0	
	1 - 6	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
Feed-through terminal block			
RWO 8-TC	3074936	10	
Feed-through terminal block, with engage	agement pin		
RWO 8-TC/S	3074949	10	

ZB 20,3 marking material for marking the center groove (see TMT (EX9,5)R marking material (see online catalog)

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



Feed-through terminal blocks, vertical conductor connection



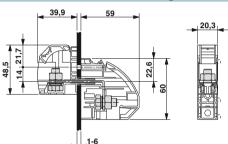
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M8 bolt connection



Molded feed-through terminal blocks, vertical conductor connection, internal part with M8 bolt connection

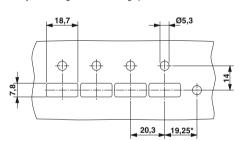


Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Type Order No. Pcs. / Pkt. Feed-through terminal block **RWOV 8-TC** 3075090 10 Feed-through terminal block, with engagement pin RWOV 8-TC/S

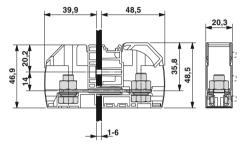
Ordering data

ZB 20,3 marking material for marking the center groove (see

TMT (EX9,5)R marking material (see online catalog)

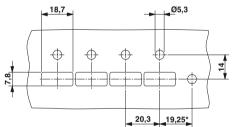
R 99

Dimensional drawing



Drilling diagram

* Only when using the RW...-F flange plate



Ordering data

Order No. Pcs. / Pkt. Feed-through terminal block, with sponge rubber seal

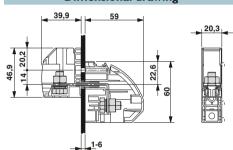
RWO 8-POT-TC	3075016	10
Feed-through terminal block, with engagement pin and		
sponge rubber seal		
RWO 8-POT-TC/S	3075029	10

ZB 20,3 marking material for marking the center groove (see

TMT (EX9,5)R marking material (see online catalog)

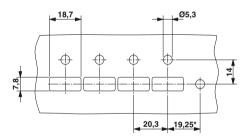
@ **91**

Dimensional drawing



Drilling diagram

Only when using the RW...-F flange plate



Ordering data

Order No. Pcs. / Pkt. Feed-through terminal block, with sponge rubber seal

RWOV 8-POT-TC 3075139 10 Feed-through terminal block, with engagement pin and sponge rubber seal RWOV 8-POT-TC/S 3075142

ZB 20,3 marking material for marking the center groove (see

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

In open housing up to 309 A/150 mm²

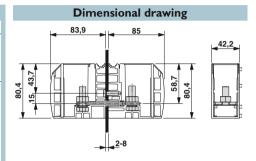


- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Touch-proof insulating housing with transparent cover
- Spring-loaded spacers protect the bolt connection against loosening

Notes:	
Internal = left side of por External = right side of p	
Corresponding screws for are supplied as standard	or fixing the feed-through terminal blocks d.
For corresponding rivets blocks, see Catalog 5.	for fixing the feed-through terminal



Accessories		
For all types	Туре	1
	Flange plate RW 10-F Order No. 3075197	



* Only when using the RW...-F flange plate __Ø6,4 42,2 31,3*

Drilling diagram

Technical data	
Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity, DIN 46234	
Cable lugs, DIN 46234	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity DIN 46235	
Cable lugs DIN 46235	[mm ²]
Connection bolt / hole diameter / width	[mm]
Connection capacity, DIN 46237	
Cable lugs DIN 46237	[mm ²]
Connection bolt / hole diameter / width	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Bolt thread/tightening torque	- / [Nm]
Insulation material	
Inflammability class according to UL 94	
Panel thickness	[mm]

309 /	150 // 309	/ 150
	1000	
	6 - 150	
1	0 / 10.5 / 30	0
	10 - 95	
1	0 / 10.5 / 28	8
	- 6	
1	- 6 0 / 10.5 / 18	8
III/3	III/2	II / 2
1000	1000	1000
8	8	8
В	С	D
-	-	-
-	-	-
-	-	-
В	С	D
-	-	-
-	-	-
-	-	-
N	/10 / 10 - 20	0
	PA	
	V0	
	2-8	

	Ord
	Туре
Description	Feed-through terminal blo
	RWO 10
	Feed-through terminal blo
	RWO 10/S

Ordering data			
Type Order No. Pcs. / Pkt.			
Feed-through terminal block			
RWO 10	3056158	5	
Feed-through terminal block, with engagement pin			
RWO 10/S	3056161	5	

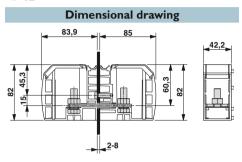
ZB 21,1 marking material for marking the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



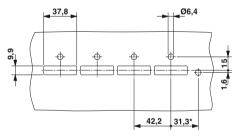
With transparent cover

@ **A**



Drilling diagram

* Only when using the RW...-F flange plate



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
Feed-through terminal block			
RWO 10-TC	3074952	5	
Feed-through terminal block, with enga	agement pin		
RWO 10-TC/S	3074965	5	

ZB 21,1 marking material for marking the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)

Special designs, feed-through terminal blocks with screw connection

DFK 4 with screw connection



- Universal screw connection with screw locking
- The feed-through terminal blocks snap into the panel cutout automatically
- Touch-proof insulating housing
- PE terminal block with ground function based on IEC 60947-7-2
- The fuse terminal blocks are available for 5×20 mm and 6.3×32 mm cartridge fuse inserts

Notes:
Internal = left side of portrait photos. External = right side of portrait photos.
Current and voltage data for slip-on connections in acc. with EN 61210 are also dependent on nominal size, material, insulation of the slip-on sleeve and conductor cross section.

Accessories				
For all types	Туре			
•	Screwdriver SZS 0,6 x 3,5 Order No. 1205053			
8	Blind cover, width 6 mm B/DFK Order No. 0706045			
	Separating plate TS-DFK Order No. 0706210			
Only for DFK 4	1			
0	Insertion bridge EB 2-6 Order No. 0201155			
1	Insertion bridge EB 3-6 Order No. 0201142			
	Insertion bridge EB 10-6 Order No. 0201139			

Technical dat	a
Technical data in accordance to IEC / DIN \	/DE
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors v	vith the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	e [mm²]
Stranded with TWIN ferrule with plastic slee	ve [mm²]
Cross section with insertion bridge (solid/str	randed) [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	
in our distriction in the control of	

DFK 4			DFK 4-PE		DFK 4-SI(5X20) BK		0) BK	
17.5	6/6//17.5	/ 1.5	17	.5 / 6 // 17.5	1/4	6.3	/6//6.3/	1.5
	400			400			400	
0.2 - 6	0.2 - 4/	24 - 10	0.2 - 6	0.2 - 6 / 0.2 - 4 / 24 - 10		0.2 - 6 / 0.2 - 4 / 24 - 10		24 - 10
	0.25 - 4			0.25 - 4		0.25 - 4		
	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5	
0.2	0.2 - 1.5 / 0.2 - 1.5		0.2	- 1.5 / 0.2 -	1.5	0.2 -	1.5 / 0.2	- 1.5
	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5	
	0.5 - 2.5			0.5 - 2.5		0.5 - 2.5		
	-4/-4			-/-			-/-	
III/3	III/2	II / 2	III/3	III/2	II / 2	III/3	III/2	II / 2
400	1000	1000						
6	6	6						
В	С	D	В	С	D	В	С	D
250	-	300	_	-	-	250	-	300
15	-	15	-	-	-	8	-	8
30 - 10	-	30 - 10	-	-	-	30 - 10	-	30 - 10
В	С	D	В	С	D	В	С	D
-	-	-	-	-	-	250	-	300
-	-	-	-	-	-	8	-	8
-	-	-	-	-	-	28 - 10	-	28 - 10
8			8		8			
N	<i>I</i> 3/0.6-0	.8		M3 / 0.6 - 0.8		M3 / 0.6 - 0.8		.8
	PA			PA		PA		
	V2			V2			V2	

Special designs, feed-through terminal blocks with screw connection



Feed-through terminal blocks, solder/2.8 mm spade connection inside



Ground feed-through terminal blocks



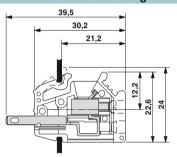
Fuse feed-through terminal blocks for cartridge fuse insert, solder/2.8 mm spade connection inside





DFK/DP-4

Dimensional drawing

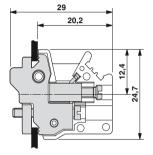


Drilling diagram

(1) P3 21/P3 (1)

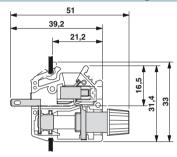




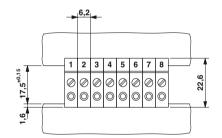


Drilling diagram





Drilling diagram

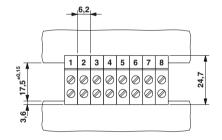


Ordering data					
Туре	Order No.	Pcs. / Pkt.			
Feed-through terminal block, for 1.5 mm thick sheet metal					
DFK 4 0708357 50					
Feed-through terminal block, for 2.5 mm thick sheet metal					

ZB 6... marking material for marking the lateral groove (see

0708616

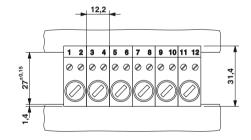
UC-TM 6 marking material for marking the lateral groove (see Catalog 5)



Ordering data			
Туре	Order No.	Pcs. / Pkt.	
PE ground terminal block, for 1.5 mm	thick sheet me	etal	

DFK 4-PE 0708315

ZB 6... marking material for marking the lateral groove (see UC-TM 6 marking material for marking the lateral groove (see Catalog 5)



Ordering data

Туре	Order No.	Pcs. / Pk
Feed-through fuse terminal block serts	, for 5 x 20 cartridg	e fuse in
DFK 4-SI(5X20) BK	0709301	50
Feed-through fuse terminal block inserts	, for 6.3 x 32 cartric	lge fuse
DFK 4-SI(6,3X32) BK	0708344	50

ZB 6... marking material for marking the lateral groove (see Catalog 5) UC-TM 6 marking material for marking the lateral groove (see

Special designs, feed-through terminal blocks with screw connection

DFK 5-9,5 with screw connection



- Universal screw connection with screw locking
- Easy fixing using plastic knurled nut
- Touch-proof insulating housing

Notes:
Internal = left side of portrait photos. External = right side of portrait photos.

Accessories				
For all types	Туре			
į.	Screwdriver SZS 0,6 x 3,5 Order No. 1205053			

Technical data

Technical data in accordance to IEC / DIN VDE	
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded [m	m ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with the	e same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/strande	ed) [mm²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	-
Inflammability class according to UL 94	
Panel thickness	[mm]

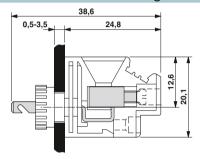
17.5 / 6 // 17.5 / 1.5					
	690				
0.2 - 6	6/0.2-4/2	24 - 10			
	0.25 - 4				
	0.25 - 4				
0.2	- 1.5 / 0.2 -	2.5			
	0.25 - 1.5				
	0.5 - 2.5				
	-/-				
III/3	III/2	II / 2			
690	1000	1000			
6	6	6			
В	С	D			
300	300	600			
30	30	5			
30 - 10	30 - 10	30 - 10			
В	С	D			
300	300	600			
30	30	5			
22 - 10	22 - 10	22 - 10			
	14				
N	M3/0.6-0.8				
PA					
V2					
	0.5 - 3.5				



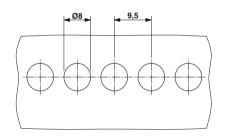
Feed-through terminal blocks, solder/2.8 mm spade connection inside



Dimensional drawing



Drilling diagram



Ordering data				
Type Order No. Pcs. / Pkt				
Feed-through terminal block, for sheet metal 0.5 - 3.5 mm thick				
DFK 5-9,5	0706605	50		

ZB 6... marking material for marking the lateral groove (see Catalog 5)

UC-TM 6 marking material for marking the lateral groove (see Catalog 5)

Special designs, feed-through terminal blocks with screw connection

VDFK with screw connection for molding





- Universal screw connection with screw locking
- Terminal blocks can be grouped
- Easy fixing using plastic knurled nut or quick mounting wedge
- Touch-proof insulating housing
- Spacer plates increase air and creepage distances



Accessories				
For all types	Туре			
F.	Screwdriver SZS 0,6 x 3,5			
1	Order No.			
	1205053			
ém.	Spacer plate, 4 mm thick DP-VDFK 4/4			
	Order No.			
	0717144			
	1	<u> </u>		

Technical data	
Technical data in accordance to IEC / DIN VD	E
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors with	the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Cross section with insertion bridge (solid/stran	nded) [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	- / [Nm]
Insulation material	-
Inflammability class according to UL 94	
· · · · · · · · · · · · · · · · · · ·	

VDFK 4			VDFK 4/K			
3	32 / 6 // 32 /	4	3	82 / 6 // 32 /	4	
	500			500		
0.2 - 6	6/0.2-4/2	24 - 10	0.2 - 6	6/0.2-4/2	24 - 10	
0.25 - 4				0.25 - 4		
	0.25 - 4			0.25 - 4		
0.2	- 1.5 / 0.2 -	1.5	0.2	- 1.5 / 0.2 - 1.5		
	0.25 - 1.5		0.25 - 1.5			
	0.5 - 1.5		0.5 - 1.5			
	-/-		-/-			
III/3	III/2	II / 2	III/3	III/2	11/2	
500	1000	1000	500	1000	1000	
6	6	6	6	6	6	
В	С	D	В	С	D	
300	150	300	300	150	300	
30	30	10	30	30	10	
30 - 10	30 - 10	30 - 10	30 - 10	30 - 10	30 - 10	
В	С	D	В	С	D	
300	-	300	300	-	300	
30	-	10	30	-	10	
28 - 10	-	28 - 10	28 - 10	-	28 - 10	
	8			8		
	M3 / 0.6 - 0.8 M3 / 0.6 - 0.8			8		
	PA	PA PA				
V0			V0			

Special designs, feed-through terminal blocks with screw connection



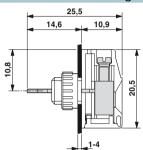
Molded feed-through terminal blocks, with solder connection and knurled nut inside



Molded feed-through terminal blocks, with solder connection and securing wedge inside

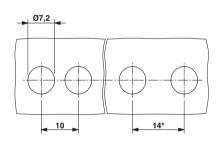
® • SNA US € KEMA ® CB.

Dimensional drawing



Drilling diagram

* Dimensions when using the DP-VDFK 4/4 spacer plate

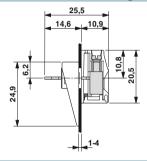


Ordering data Type Order No. Pcs. / Pkt. Molded feed-through terminal block, for housing panels 1 ... 4 mm thick VDFK 4 0708250 50 Molded feed-through terminal block, for 4...8 mm

BN-ZB 10 marking material (see online catalog)

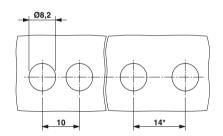
© c¶us P KEMA CB

Dimensional drawing



Drilling diagram

* Dimensions when using the DP-VDFK 4/4 spacer plate



Ordering data Order No. Pcs. / Pkt. Molded feed-through terminal block, for housing panels 1 ... 4 mm thick 0709233 VDFK 4/K 50 Molded feed-through terminal block, for housing panels 4...7 mm thick BN-ZB 10 marking material (see online catalog)

Special designs, feed-through terminal blocks with screw connection

VDFK with screw connection for molding





- Universal screw connection with screw locking
- Terminal blocks can be grouped
- Easy fixing using plastic knurled nut or quick mounting wedge
- Touch-proof insulating housing
- Strain relief can be snapped on as an op-
- Spacer plates increase air and creepage distances

Notes:
Internal = left side of portrait photos. External = right side of portrait photos.

Accessories				
For all types	Туре			
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066			
ß	Spacer plate, 4 mm thick DP-VDFK 6/4 Order No. 0717157			
	Strain relief VDFK 6 ZEL Order No. 0711072			

Technical data	
Technical data in accordance to IEC / DIN VE	DΕ
Current/conductor cross section	[A] / [mm ²]
Rated voltage	[V]
Connection capacity	
Solid / stranded	$[mm^2]/[mm^2]/AWG$
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (two conductors wit	th the same cross section)
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	e [mm²]
Cross section with insertion bridge (solid/stra	nded) [mm ²]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
Approval data (CSA)	Use Group
Nominal voltage	[V]
Nominal current	[A]
Connection capacity AWG	AWG
General data	
Stripping length	[mm]
Terminal sleeve: Thread / Torque	-/[Nm]
Insulation material	
Inflammability class according to UL 94	

VDFK 6		VDFK 6/K				
5	7 / 10 // 41 /	6	5	57 / 10 // 41 / 6		
	500			500		
0.2 -	0.2 - 10 / 0.2 - 6 / 24 - 8			10/0.2-6/	24 - 8	
	0.25 - 6			0.25 - 6		
	0.25 - 6			0.25 - 6		
0	0.2 - 4 / 0.2 - 4		0.2 - 4 / 0.2 - 4		4	
	0.25 - 2.5	5 0.25 - 2.5				
	0.5 - 4			0.5 - 4		
	-/-			-/-		
III/3	III/2	II / 2	III/3	III/2	II / 2	
500	1000	1000	500	1000	1000	
6	6	6	6	6	6	
В	С	D	В	С	D	
300	150	300	300	150	300	
50	50	10	50	50	10	
26 - 8	26 - 8	26 - 8	26 - 8	26 - 8	26 - 8	
В	С	D	В	С	D	
300	150	300	300	150	300	
50	50	10	50	50	10	
26 - 8	26 - 8	26 - 8	26 - 8	26 - 8	26 - 8	
	9		9			
	M4 / 1.5 - 1.8			M4 / 1.5 - 1.8		
	PA			PA		
V0V0			V0			

Special designs, feed-through terminal blocks with screw connection



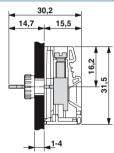
Molded feed-through terminal blocks, with solder connection and knurled nut inside



Molded feed-through terminal blocks, with solder connection and securing wedge inside

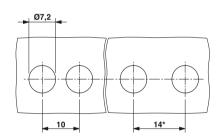
® • SN us PC KEMA (2) CB.

Dimensional drawing



Drilling diagram

* Dimensions when using the DP-VDFK 6/4 spacer plate



Ordering data Order No. Pcs. / Pkt.

Type Molded feed-through terminal block, for housing panels 1 ... 4 mm thick VDFK 6 0711027

Molded feed-through terminal block, for 4...8 mm

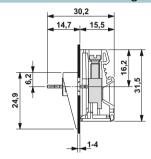
0711014

UC-TM 10 marking material for marking the lateral groove (see ZB 10 marking material for marking the lateral groove (see Catalog 5)

BN-ZB 10 marking material (see online catalog)

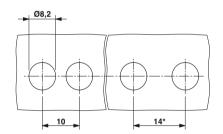
(KEMA CB

Dimensional drawing



Drilling diagram

* Dimensions when using the DP-VDFK 6/4 spacer plate



Ordering data

Туре	Order No.	Pcs. / Pkt.		
Molded feed-through terminal block, for housing panels 1 4 mm thick				
VDFK 6/K	0711056	50		
Molded feed-through terminal block, for housing panels 47 mm thick				
VDFK 6/K-DP	0711043	50		

UC-TM 10 marking material for marking the lateral groove (see

ZB 10 marking material for marking the lateral groove (see Catalog 5)

BN-ZB 10 marking material (see online catalog)



Electronics housing

Phoenix Contact component housings transform the assembled PCB into a shockproof and dust-proof electronics module. The housings are mounted quickly and safely on standard 35 mm DIN rails. Apart from a few exceptions, the connection terminal blocks can be fitted and machine-soldered during PCB assembly.

The panel mounting bases consist of modular components, which form a DINrail mountable chassis for accommodating the PCB. The surface of the PCB is freely accessible, making it particularly suitable for bulky operating elements or large plug-in connectors. If a device cannot be mounted directly on a standard DIN rail, Phoenix Contact mounting plates are available for adaptation.

Whether screw, spring-cage or fast connection, individual housing with customized connection technology is no problem for Phoenix Contact. We will develop and produce your special housing solution in accordance with your particular design specifications. From modifying a standard product through to developing a new solution, we provide expert support throughout.

Customer-specific solutions	648
Modular component housings for industrial electronics	650
ME modular component housings	652
ME BUS modular component housings	662
ME TBUS modular component housings	666
TBUS DIN rail connectors	676
ME MAX modular component housings	678
Building installation housings according to DIN EN 43880	694
BC installation component housings	698
Basic housings for universal use	704
EMG system component housings	708
EG receptacle-type component housings	718
UEG universal component housings	722
UEGM universal component housings	724
UEGH universal component housings	726
UEGM-MSTB universal component housings	728
Multifunctional housings for complex electronics	730
ME-PLC function component housings	732
CM compact component housings	736
EFG single component housings	738
UEG-EU universal component housings	739
Profile racks and adapters	740
UM-ALU 4 aluminum profile housings	742
UM-PRO and UM-BASIC press-drawn section panel mounting bases	748
UM press-drawn section panel mounting bases	754
UMK plug-in module panel mounting bases	760
UM plug-in module panel mounting bases	758
UTA, EM-MP/SISM DIN rail adapters	764
HC-ALU handheld housings for use in the field	766

Customer-specific solutions

Electronics housings in other colors



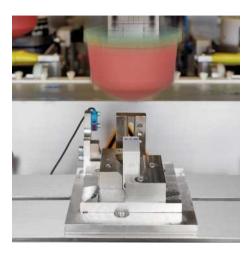
Electronics housings can also be produced in colors other than the standard color, either completely or as a combination of different colored housing parts. Our ability to reproduce your own company color maximizes brand recognition value.

Mechanically processed electronics housings



We can mill the necessary openings for connection systems, displays, screens or operating elements. Customer-specific cutouts can be made on each side of the housing with our state-of-the-art milling machines. This means that you do not have to carry out additional manufacturing work or deal with the associated logistical issues. Your stock inventory is thereby reduced to components that are ready for assembly.

Marking and printing on electronics housings



Phoenix Contact offers the option of printing housings or housing parts according to your specifications. The following procedures are available:

- Pad printing: ideal for one- or two-color printing
- Screen printing: for printing in multiple colors on larger surfaces
- Laser printing: particularly suitable for content that changes on a regular basis, e.g., serial numbers or barcodes

Customer-specific adaptations in series tools



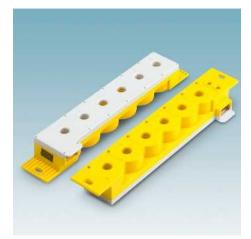
For large volumes, injection molding is often a more cost-effective approach than mechanical finishing. Phoenix Contact is able to offer you the option of producing customized housing components directly from an original mold.

Development of a customer-specific housing component



To deliver a solution adapted to meet your specific requirements, it is sometimes necessary to replace individual standard housing parts with customer-specific design features. We design housing parts according to your specifications and combine them with proven standard components.

Development of new customer-specific housings



Do you need a new, special housing designed according to your requirements? With the expertise of our experienced housing specialists, we will support and assist you through all the necessary steps.

What you can expect from us:

- Draft of concept
- Design
- Prototype construction
- Tool engineering
- Pre-series production
- Series production

The example shown here is the housing for a custom-made insulation fault evaluator by Bender GmbH & Co. KG Grünberg.

Modular component housing for industrial electronics

Modular housing



ME and ME MAX modular electronics housings offer a functional and design-oriented "packaging" solution for modern electronic components. Variable connection technology, bus connectors, and modularity ensure the right device design for every application.

Modular component housing for industrial electronics



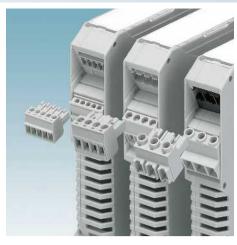
Flat designs

Flat and super-flat designs are the ideal solution for use in distributed terminal boxes.



Modular construction

Housing widths with 17.5 mm or 22.5 mm pitch can be increased as required by aligning intermediate elements.



Connection systems

Hard soldered or plug-in connection technology with variable pitch dimensions and numbers of positions maximizes flexibility where PCB connections are concerned.



ME housing range

Your advantages at a glance:

- Pre-assembled receptacle housing
- Various cover versions
- Same PCB geometry for different PCB connection technologies
- Optional: DIN rail connector or integrated cross connector



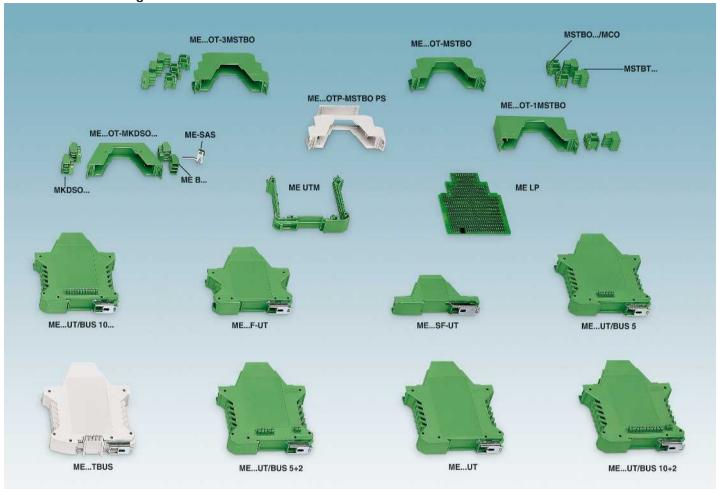
ME MAX housing range

Your advantages at a glance:

- Large PCB assembly area
- Large front panel with transparent cover and fitted cover
- Half-shell design
- Optional: DIN rail connector

Modular component housing for industrial electronics

ME electronics housings





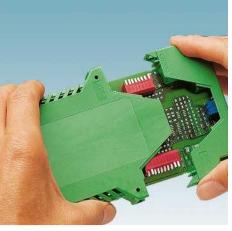
- ① MSTBO/MKDSO, etc., PCB connection technology see page 656
- ② ME...OT upper housing parts starting on page 670
- 3 ME LP sample PCB see page 658
- 4 ME...UT housing bases starting on page 658

Modular component housing for industrial electronics



Mounting principle

Electronic components and PCB connection technology can be assembled and soldered in a single step. The upper part of the housing is mounted simply by latching with the soldered connection technology.



Having been pre-assembled in this way, the upper part is then pushed into the base of the housing, where it locks automatically.



Release

The housing can be easily opened by simply pressing on the lock hook, e.g., using a screwdriver.



Partial removal

After approximately 4 cm, the ME LPZS PCB stop prevents the PCB from being removed completely and simultaneously locks it in place.



Integrated bus connectors

The bus connector integrated in the bottom of the ME housing is in one piece. The conductive path contact points on the PCB make direct contact with the gold-plated contact forks of the cross connector when the electronics module is inserted. A functional earth ground contact also integrated into the bottom of the housing connects the inserted PCB directly to the grounded DIN rail.



DIN rail connectors

The ME...TBUS connector snaps onto all standard NS 35/7,5 or NS 35/15 DIN rails. When an individual device is removed from the topology, the contact chain is not interrupted.

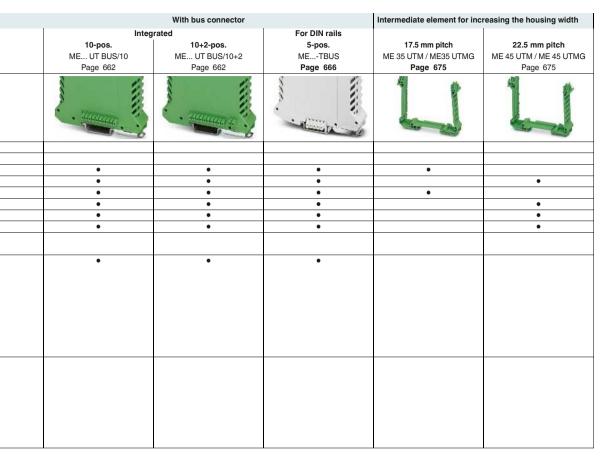
Modular component housing for industrial electronics

Matrix for selecting the housing base

ME housing base	Туре	Page	Width [mm]	Without bus connector	With bus	connector	
				ME UT (G) Page 658	5-pos. ME UT BUS/5 Page 662	rated 5+2-pos. ME UT BUS/5+2 Page 662	
Start by selecting the housing base	—				. 444.	June 1	
Tall design (standard)							
	ME 12,5 UT	658	12.5	•			
	ME 17,5 UT	658	17.5	•	•	•	
	ME 22,5 UT	659	22.5	•	•	•	
	ME 35 UT	660	35	•	•	•	
	ME 45 UT	660	45	•	•	•	
	ME 67,5 UT	661	67.5	•		•	
	ME 90 UT	661	90	•		•	
Flat design	ME 22,5 F-UT	659	22.5	•	•	•	
Ultra-flat design	ME 22,5 SF	659	22.5	•			

Matrix for selecting the housing upper part

ME housing base	Туре	Page		ME upper h	ousing parts	
			For PCB terminal	block connection	For COMBICON connection	
			Screw	Spring-cage	Single-level	
			ME OTU-MKDSO	ME OT-FKDSO	MEOT-1MSTBO	
Select the			Page 670	Page 670	Page 670	
housing upper part according to the housing width						
Tall design (standard)						
	ME 12,5 UT	658	•	•		
	ME 17,5 UT	658	•	•		
	ME 22,5 UT	659	•	•	•	
	ME 35 UT	660	0	0		
	ME 45 UT	660	•	•	•	
	ME 67,5 UT	661	0	0	•	
	ME 90 UT	661	0	0	•	
Flat design	ME 22,5 F-UT	659	•	•	•	
Ultra-flat design	ME 22,5 SF	659	•	•	•	





ME upper housing parts							
Double-level ME OT-MSTBO Page 670	For COMBICON connection Three-level ME OT-3MSTBO Page 670						
N	A						
•							
•							
•	•						
•							
•	0						
0	0						
•	•						
•	•						
•	•						

Then select the connection technology



 ⁼ Housing upper part available in corresponding design width. Tribusing upper part available in corresponding design width.
 C = Combination of several upper parts with smaller design width in the same housing pitch.

Modular component housing for industrial electronics

Matrix for selecting the connection technology

ME housing upper part	Туре	Page	Width [mm]		PCB terr	ninal block		
					Screw			
				3.5 mm pitch	5 mm pitch	7.5 mm pitch	5 mm pitch	
Select the				MKDSO 1,5/3,5	MKDSO 2,5/	MKDSO 2,5 HV7,5	FKDSO 2,5/	
				Page 89	Page 113	Page 125	Page 153	
connection tech-					W	P		
nology according							GGGG	
to the selected				Partition	The same of the sa		- Carrier	
housing upper part				DESCRIPTION OF THE PERSON OF T	HHHM	OR TOWNS	9000	
meaning apper pairs				- /	1		1	
	ME 12,5 OTU-MKDSO	670	12.5	 3-pos. 	 2-pos. 			
	ME 17,5 OTU-MKDSO	670	17.5	• 4-pos.	• 3-pos.			
	ME 22,5 OTU-MKDSO	671	22.5	• 5-pos.	• 4-pos.			1
	ME 45 OTU-MKDSO	671	45	• 5-pos.	• 4-pos.			
	ME 12,5 OT-FKDSO	670	12.5				• 2-nos	
	ME 17,5 OT-FKDSO	670	17.5				2-pos.3-pos.	
	ME 22,5 OT-FKDSO	671	22.5				• 4-pos.	
	ME 45 OT-FKDSO	671	45				• 4-pos.	
	WE 45 01-FKD50	071	45				Ψ 4-pos.	
4								
	ME 22,5 OT-1MSTBO	670	22.5					
	ME 45 OT-1MSTBO	670	45					
	ME 67,5 OT-1MSTBO	671	67.5					
	ME 90 OT-1MSTBO	671	90					
- 4								
	ME 12,5 OT-MSTBO	670	12.5					
	ME 17,5 OT-MSTBO	670	17.5					
	ME 22,5 OT-MSTBO	671	22.5					
	ME 35 OT-MSTBO	671	35					
	ME 45 OT-MSTBO	671	45					
					·			
	ME 22,5 OT-3MSTBO	671	22.5					
						Only for ME MAX hous-		
						ing range		

Matrix for selecting the filler plug

ME housing upper part	Туре	Page	Width [mm]	Filler plug					
				For PCB terminal	l block upper part	For COMBIC	ON upper part		
Select the				ME BMKDSO	ME BFKDSO	ME BMSTBO	ME B3MSTBO		
filler plug accord-				Page 674	Page 674	Page 674	Page 674		
ing to the selected housing upper part				9	30	1	1		
	ME 12,5 OTU-MKDSO	670	12.5	•					
	ME 17,5 OTU-MKDSO	670	17.5	•					
	ME 22,5 OTU-MKDSO	671	22.5	•					
	ME 45 OTU-MKDSO	671	45	•					
	ME 12,5 OT-FKDSO	670	12.5		•				
	ME 17,5 OT-FKDSO	670	17.5		•				
	ME 22,5 OT-FKDSO	671	22.5		•				
	ME 45 OT-FKDSO	671	45		•				
	ME 22,5 OT-1MSTBO	671	22.5			•			
	ME 45 OT-1MSTBO	671	45			•			
	ME 67,5 OT-1MSTBO	671	67.5			•			
	ME 90 OT-1MSTBO	671	90			•			
	ME 12,5 OT-MSTBO	670	12.5			•			
	ME 17,5 OT-MSTBO	670	17.5			•			
	ME 22,5 OT-MSTBO	671	22.5			•			
	ME 35 OT-MSTBO	671	35			•			
	ME 45 OT-MSTBO	671	45			•			
	ME 22,5 OT-3MSTBO	671	22.5				•		
							2 required per termir point.		

Modular component housing for industrial electronics

					COMBIC	ON connection					Number of terminal points
					H	leader					
	3.5 r	nm pitch	5 m	ım pitch	Pitch: 5	, touch proof	Pito	h: 5, THR	7.25	mm pitch	
		1,5/3,5		BO 2,5/		3O 2,5/P		,5/THR UTMG		5 HV/THR UTMG	
		ge 232		ge 322		ige 325		ige 309	Pa	ge 510	
								028	105 2 -		
ľ	- 1	-						District Control	4		
	72	22	200		- 11	N In land	Gi.	Carrier 1		ALCOHOL:	
	- 4	ME			(2)	188		100	Thirtie	AND SHAPE	
				10		STATE OF	4				
	-								,	-	
											2 per housing side
											2 per housing side
											2 per housing side
											4 per housing side
											2 per housing side
											2 per housing side
											2 per housing side
											4 per housing side
	•	5-pos.	•	4-pos.	•	4-pos.	•	4-pos.	•	3-pos.	1 → Housing upper part can only be fitted with terminal block on one side
	•	5-pos.	•	4-pos.	•	4-pos.	•	4-pos.	•	3-pos.	2 → Housing upper part can only be fitted with terminal block on one side
	•	5-pos.	•	4-pos.	•	4-pos.	•	4-pos.	•	3-pos.	3 → Housing upper part can only be fitted with terminal block on one side
	•	5-pos.	•	4-pos.	•	4-pos.	•	4-pos.	•	3-pos.	4 → Housing upper part can only be fitted with terminal block on one side
	•	3-pos.	•	2-pos.	•	2-pos.	•	2-pos.	,		2 per housing side
	•	4-pos.	•	3-pos.	•	3-pos.	•	3-pos.	•	2-pos.	2 per housing side
	•	5-pos.	•	4-pos.	•	4-pos.	•	4-pos.	•	3-pos.	2 per housing side
	•	4-pos.	•	3-pos.	•	3-pos.	•	3-pos.	•	2-pos.	4 per housing side
	•	5-pos.	•	4-pos.	•	4-pos.	•	4-pos.	•	3-pos.	4 per housing side
	•	5-pos.	•	4-pos.	•	4-pos.	•	4-pos.	•	3-pos.	3 per housing side

Specified number of positions = number of positions per terminal point

Modular component housing for industrial electronics

Bases for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

Notes:
Marking systems and mounting materials: see Catalog 5.
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
1) For information on power dissipation, see page 770.



Tall design, width: 12.5 mm



Tall design, width: 17.5 mm

1	-1	
	74.3	

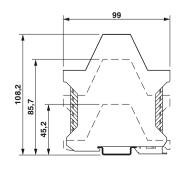
Power dissipation P _v at 20°C in horizontal mounting position¹)
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Floatronic housings

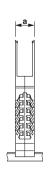
	Technic	al data	
ME 12,5 UT GN	ME 12,5 UTG GN		
4.4 W	4.3 W	-	-
8.4 W	7.1 W	-	-

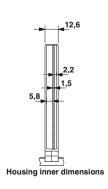
Polyamide / \	ıΛ

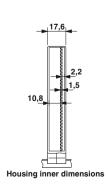
	Tech	nical dat	а	
ME 17,5 UT GN	ME 17,5 UTO GN	3		
5.2 W	4.9 W	-	-	
10.8 W	8.9 W	-	-	

Type of nousing Electronic housings	Polyamide / V0			Polyamide / V0		
	Ordering data		Ordering data			
Description	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Lower part of housing, fully assembled, with metal foot catch						
with vents without vents Lower part of housing, fully assembled, with metal foot catch,	ME 12,5 UT GN ME 12,5 UTG GN	2906759 2906762	10 10	ME 17,5 UT GN ME 17,5 UTG GN	2906775 2906788	10 10
with integrated functional earth contact with vents	ME 12,5 UT/FE GN	2906791	10	ME 17,5 UT/FE GN	2906924	10
without vents	ME 12,5 UTG/FE GN	2906801	10	ME 17,5 UTG/FE GN	2906937	10
Lower part of housing, fully assembled, with metal foot catch Superflat design Lower part of housing, fully assembled, with metal foot catch with vents, low-profile design without vents, low-profile design Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact, flat design with vents without vents						
	Accessories		Accessories			
PCB, for custom mounting components, for ME housing without bus connector	ME LP	2906908	5	ME LP	2906908	5









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Modular component housing for industrial electronics



Ultra-flat design, width: 22.5 mm



Flat design, width 22.5 mm



Tall design, width: 22.5 mm

977

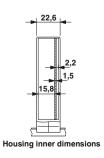
		Technical data		
ME 22,5 SF- UT GN				
-	-	-	-	

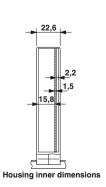
	recm	iicai data	1	
ME 22,5 F-UT GN	ME 22,5 F- UTG GN			
5.9 W	5.5 W	-	-	
11.5 W	9.6 W	-	-	

	Tech	nical dat	а	
ME 22,5 UT GN	ME 22,5 UT GN	3		
6.1 W	5.7 W	-	-	
12 1 W	10 1 W	-	-	

Polyamide / V0			Polyamide / V0			Polyamide / V0		
Ordering	g data		Ordering da	nta		Ordering data		
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
						ME 22,5 UT GN ME 22,5 UTG GN ME 22,5 UT/FE GN	2907130 2907127 2907114	10 10
ME 22,5 SF-UT GN	2708009	10				ME 22,5 UTG/FE GN	2907101	10
			ME 22,5 F-UT GN ME 22,5 F-UTG GN	2854131 2854144	10 10			
			ME 22,5 F-UT/FE GN ME 22,5 F-UTG/FE GN	2854160 2854157	10 10			
Access	ories		Accessories			Accessories		
						ME LP		5







Modular component housing for industrial electronics

Bases for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

Notes:
Marking systems and mounting materials: see Catalog 5.
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, see page 674.
1) For information on power disspation, see page 770.



Tall design, width: 35 mm



Tall design, width: 45 mm

Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings

Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings

Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings
Description

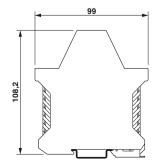
Description
Lower part of housing, fully assembled, with metal foot catch
with vents without vents
Lower part of housing , fully assembled, with metal foot catch, with integrated functional earth contact
with vents
without vents

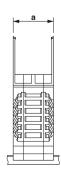
PCB, for custom mounting components, for ME nousing without
bus connector

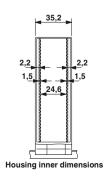
	Techn	ical data		
ME 35 UT GN	ME 35 UTG GN			
7.9 W	7.5 W	-	-	
16.3 W	13.8 W	-	-	

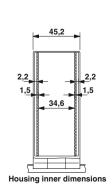
	Techni	cal data			Technic	cal data		
UT GN	ME 35 UTG GN			ME 45 UT GN	ME 45 UTG GN			
	7.5 W	-	-	8.2 W	7.6 W	-	-	
V	13.8 W	-	-	16.5 W	14.1 W	-	-	

Polyamide / V0			Polyamide / V0		
Ordering data			Ordering data		
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
ME 35 UT GN ME 35 UTG GN ME 35 UT/FE GN ME 35 UTG/FE GN	2907198 2907208 2907211 2907224	10 10	ME 45 UT GN ME 45 UTG GN ME 45 UT/FE GN ME 45 UTG/FE GN	2909361 2909374 2909358 2909387	10 10
Accessories			Accessories		
MELD	202000	_	METO	200000	_
ME LP	2906908	5	ME LP	2906908	5









Modular component housing for industrial electronics

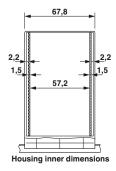


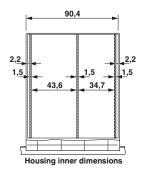
Tall design, width: 67.5 mm



Tall design, width: 90 mm

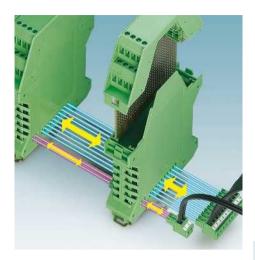
Technical data			Technica	l data	
ME 67,5 UT/FE KMGY			ME 90 UT/FE KMGY		
9.1 W	-		10.4 W 18.9 W	-	
17.5 W			10.9 VV		
Polyamide / V0			Polyamide / V0		
Ordering	data		Ordering	data	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
ME 67,5 UT/FE KMGY	2200535	10	ME 90 UT/FE KMGY	2200536	10
Accessories			Accesso	ories	
ME LP	2906908	5	ME LP	2906908	5





Modular component housing for industrial electronics

ME BUS modular component housing



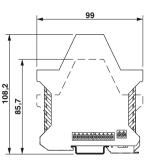
The ME bus housings are the system version of the ME modular electronic housing with integrated, cascadable cross connec-

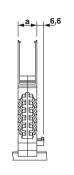
Main features:

- Six housing widths from 17.5 mm to 90 mm
- 5 or 10 integrated parallel contacts
- 2 optional serial contacts (daisy chain)
- Gold contacts for data transmission and power supply (125 V, 8 A)
- Supply via standard MINI COMBICON connector
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

Marking systems and mounting materials: At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB. For PCB connection technology, see page 656. For accessories, refer to page: 674. 1) For information on power dissipation, see page 770.





LR su **LR**s



Tall design, width: 17.5 mm

Power dissipation P_v at 20°C in horizontal mounting position¹)

Mounted in rows without spacing Mounted in rows with min. 20 mm spacing Type of housing

Electronic housings

Technical data				
ME 17,5 UT/FE BUS/ 5 GN				
5.2 W 10.8 W	-	-	-	

Description
Lower part of a housing, with vents, fully pre-assembled, with integrated bus connector (parallel)
Without functional earth ground contact and bus connector, 5-pos. Without functional earth ground contact and bus connector, 10-pos.
With functional earth ground contact and bus connector, 5-pos. With functional earth ground contact and bus connector, 10-pos.
Housing base, with vents and functional earth ground contacts
With additional serial contacting (2-pos.), and bus connector, 5-pos. and 2-pos.
With additional serial contacting (2-pos.), and bus connector, 10-pos. and 2-pos.
Housing base, flat design, fully pre-assembled
With vents and bus connector, 5-pos.
Without vents, with bus connector, 5-pos.
With vents and bus connector, 10-pos.
Without vents, with bus connector, 10-pos.
I amount at he water that dealer follows are such to dealer the

Lower part of housing, flat design, fully pre-assembled with inte-
grated 5 or 10 pos. bus connector (parallel) and additional serial
contacting (2-pos.)

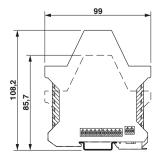
With vents and bus connector, 5-pos., 2-pos.

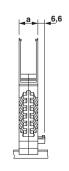
Without vents and with bus connector, 5-pos., 2-pos.

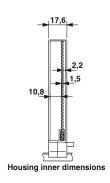
With vents and bus connector, 10-pos., 2-pos.

Without vents and with bus connector, 10-pos., 2-pos.

Polyamide / V0						
Ordering data						
Order No.	Pcs. / Pkt.					
2908728 2908731	10 10					
2854186 2854199	10 10					
	Order No. 2908728 2908731					







Modular component housing for industrial electronics



Flat design, width 22.5 mm



Tall design, width: 22.5 mm



Tall design, width: 35 mm

c**911** us **911**

Polyamide / V0

Technical data					
ME 22,5 F-UT BUS/ 5 GN					
5.9 W 11.5 W			-		

c**911** us **91**

Technical data					
ME 22,5 UT/FE BUS/ 5 GN					
6.1 W	-	-	-		
12.1 W	-	-	-		

Ordering data

c**911** us **911**

	Techni	cal data	
ME 35 UT BUS/ 5 GN			
7.9 W 16.3 W	-	-	-

Polyamide / V0

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
ME 22,5 F-UT BUS/ 5 GN	2735975	10			
ME 22,5 F-UTG BUS/ 5 GN	2735988	10			
ME 22,5 F-UT BUS/10 GN	2735991	10			
ME 22,5 F-UTG BUS/10 GN	2736000	10			
ME 22,5 F-UT BUS/ 5+2 GN	2706014	10			
ME 22,5 F-UTG BUS/ 5+2 GN	2706027	10			
ME 22,5 F-UT BUS/10+2 GN	2706030	10			
ME 22,5 F-UTG BUS/10+2 GN	2706043	10			

Туре	Order No.	Pcs. / Pkt.	Туре
ME 22,5 UT/FE BUS/ 5 GN ME 22,5 UT/FE BUS/10 GN	2908744 2908755	10 10	ME 35 UT BUS/5 GN ME 35 UT BUS/10 GN ME 35 UT/FE BUS/5 GN
ME 22,5 UT/FE BUS/ 5+2 GN ME 22,5 UT/FE BUS/10+2 GN	2854209 2854212	10	ME 35 UT/FE BUS/ 5+2 GN ME 35 UT/FE BUS/10+2 GN

ME 35 UT BUS/ 5 GN			
7.9 W	-	-	-
16.3 W	-	-	-
Polyamide / V0			

Ordering data

Pcs. / Pkt.

10

10

10

10

10

Order No.

2853637

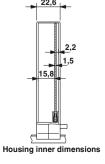
2853640

2706771

2735551

	35,2 ▶
10 <u>,9</u>	2,2 1,5
	16,1
Housing	inner dimensions

	22,6	
-		
	-	2,2 1,5
	5,8	<u>1,5</u>
-	3,0	_
F		
£	\pm	Ь
ousina in	ner d	limensions



Modular component housing for industrial electronics

ME BUS modular component housing

Notes:

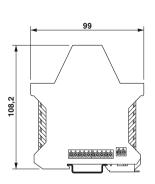
Marking systems and mounting materials: see Catalog 5.

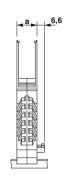
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.

For PCB connection technology, see page 656.

For accessories, refer to page: 674.

1) For information on power dissipation, see page 770.







Tall design, width: 45 mm

PR 2UP3

Power dissipation P_v at 20°C in horizontal mounting position¹)

Mounted in rows without spacing Mounted in rows with min. 20 mm spacing

Type of housing

Electronic housings

		Technic	cal data	1		
ME 45 UT BUS/5 GN						
8.2 W 16.5 W	:		-		-	
Polyamide / V0						

Pcs./

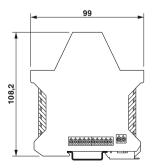
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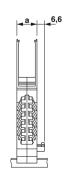
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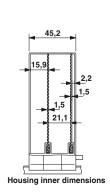
10

10

	Ordering dat	а
Description	Туре	Order No.
Housing base, with vents, fully pre-assembled		
Without functional earth ground contact and bus connector, 5-pos. Without functional earth ground contact and bus connector, 10-pos. With functional earth ground contact and bus connector, 5-pos. With functional earth gro	ME 45 UT BUS/5 GN ME 45 UT BUS/10 GN ME 45 UT/FE BUS/ 5 GN	2853679 2853682 2709765
Housing base, fully pre-assembled, with metal foot catch, with integrated functional earth ground contacts and vents		
With additional serial contacting (2-pos.), and bus connector, 5-pos. and 2-pos.	ME 45 UT/FE BUS/ 5+2 GN	2735577
With additional serial contacting (2-pos.), and bus connector, 10-pos. and 2-pos.	ME 45 UT/FE BUS/10+2 GN	2735580







Modular component housing for industrial electronics

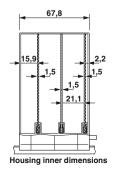


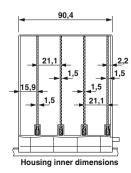
Tall design, width: 67.5 mm



Tall design, width: 90 mm

Technical da	Technical data					
ME 67,5 UT/FE BUS/10 KMGY			ME 90 UT/FE BUS/10 KMGY			
9.1 W 17.5 W	-		10.4 W - 18.9 W -		: :	
Polyamide / V0			Polyamide / V0			
Ordering da	ıta			Ordering data	а	
Туре	Order No.	Pcs. / Pkt.	Туре		Order No.	Pcs. / Pkt.
ME 67,5 UT/FE BUS/10 KMGY	2200539	10	ME 90 UT/FE BUS/10	KMGY	2200540	10
ME 67,5 UT/FE BUS/5+2 KMGY	2200537	10	ME 90 UT/FE BUS/5+	2 KMGY	2200538	10
MF 67.5 UT/FF BUS/10+2 KMGY	2200541	10	ME 90 UT/FF BUS/10	+2 KMGY	2200543	10





Modular component housing for industrial electronics

ME TBUS modular component housing



The ME TBUS housings can be interconnected using the DIN-rail mountable ME...TBUS connectors.

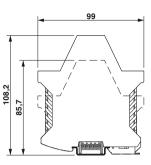
Main features:

- Six housing widths from 17.5 mm to 90 mm
- ME...TBUS connector with 5 parallel contacts can be snapped onto DIN rails to save space
- Gold contacts for data transmission and power supply (125 V, 8 A)
- When a device is unplugged from the system as a whole, the signal chain is not interrupted
- Supply via standard MINI COMBICON plug
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails

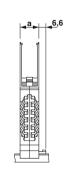
More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at:

www.phoenixcontact.net/products

Notes:
Marking systems and mounting materials: see Catalog 5.
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
¹) For information on power dissipation, see page 770.
²) DIN rail connectors see page 676.



ME 17,5.../TBUS.





Tall design, width: 17.5 mm

Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings
Connection data

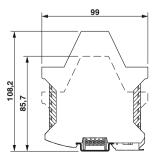
Description
Housing lower part, light gray, fully assembled, without TBUS connector with vents without vents
Housing lower part, light gray, fully mounted, without TBUS connector, flat housing type
with vents without vents

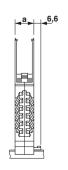
without verits
DIN rail bus connector, 5-pos.2)
Zittaii Zao comicotor, o post y
Power clip for TBUS connector, for strain relief in connection
with MC(VR) 1,5/5 or IMC 1,5/5-ST-3,81 AU plugs
Will Mio (117) 1,070 of Mio 1,070 of 0,01710 plago

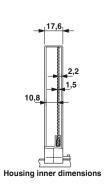
	Techni	cal data		
ME 17,5 UT TBUS KMGY	ME 17,5 UTG TBUS KMGY			
5.2 W 10.8 W	4.9 W 8.9 W	-	-	
Polyamide / V0				
solid [m	stranded m ²]	AWG	I [A]	U [V]
-	-	-	8	125

		123	
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
ME 17,5 UT TBUS KMGY ME 17,5 UTG TBUS KMGY	2914783 2914796	10	

Accessories		
ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713645	50
E/ME TBUS NS35 GY	2713780	50







Modular component housing for industrial electronics



Flat design, width 22.5 mm



Tall design, width: 22.5 mm



Tall design, width: 35 mm

Technical data					
ME 22,5 F-UT TBUS KMGY	ME 22,5 F- UTG TBUS KMGY				
5.9 W	5.5 W	-	-		
11.5 W	9.6 W	-	-		
Polyamide / V0					
solid	stranded		- 1	U	
[mr	m ²]	AWO	G [A]	[V]	

<i>9</i> 1	7
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Technical data					
ME 22,5 UT TBUS KMGY	ME 22,5 UTG TBUS KMGY				
6.1 W	5.7 W	-	-		
12.1 W	10.1 W	-	-		
Polyamide / V0					
solid	stranded		1	U	
[mı	m ²]	AWG	[A]	[V]	
-	-	-	8	125	
Ordering data					

	Technical data				
ME 35 UT TBUS KMGY	ME 35 UTG TBUS KMGY				
7.9 W 16.3 W	7.5 W 13.8 W	-	-		
Polyamide / V0					
solid	stranded m ²]	AWG	I [A]	U [V]	

Ordering data		
Туре	Order No.	Pcs. / Pkt.
ME 22,5 F-UT TBUS KMGY ME 22,5 F-UTG TBUS KMGY	2914835 2914851	10 10

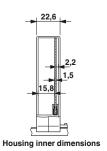
3		
Туре	Order No.	Pcs. / Pkt.
ME 22,5 UT TBUS KMGY ME 22,5 UTG TBUS KMGY	2869524 2914806	10 10
		1

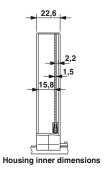
Ordering data		
Туре	Order No.	Pcs. / Pkt.
ME 35 UT TBUS KMGY ME 35 UTG TBUS KMGY	2914819 2914822	10 10

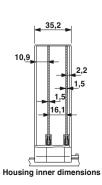
Accessories			
ME 22,5 TBUS 1,5/5-ST-3,81 KMGY	2713722	50	
E/ME TBUS NS35 GY	2713780	50	

Accessories		
ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722	50
E/ME TBUS NS35 GY	2713780	50

Accessories						
ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713645	50				
E/ME TBUS NS35 GY	2713780	50				







Modular component housing for industrial electronics

ME TBUS modular component housing

Marking systems and mounting materials: see Catalog 5.

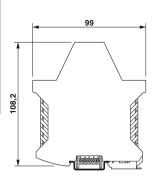
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.

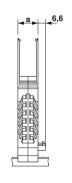
For PCB connection technology, see page 656.

For accessories, refer to page: 674.

1) For information on power dissipation, see page 770.

2) DIN rail connectors see page 676.







Tall design, width: 45 mm

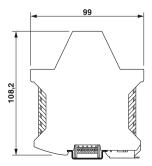
Technical data

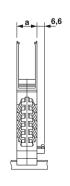
Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings
Connection data
ME 17,5/TBUS

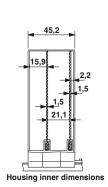
ription	Туре		Order No.	Pcs. /
		Ordering d	ata	
7,5/TBUS	-	-	- 8	125
iodion data			AWG [A]	
nection data	solid	stranded	1	U
of housing ronic housings	Polyamide / V0			
nted in rows without spacing nted in rows with min. 20 mm spacing	8.2 W 16.5 W	7.6 W - 14.1 W -	-	
er dissipation P _v at 20°C in horizontal mounting position¹)	ME 45 UT TBUS KMGY	ME 45 UTG TBUS KMGY		

Description
Housing base, fully pre-assembled, with metal foot catch, without TBUS plug with vents without vents
DIN rail bus connector, 5-pos.²)
Power clip for TBUS plug, for strain relief in connection with MC(VR) 1,5/5 or IMC 1,5/5-ST-3,81 AU plugs

Туре	Order No.	Pcs. / Pkt.
ME 45 UT TBUS KMGY	2869511	10
ME 45 UTG TBUS KMGY	2914848	10
Accessories		
ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722	50
E/ME TBUS NS35 GY	2713780	50







Modular component housing for industrial electronics

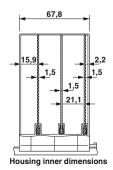


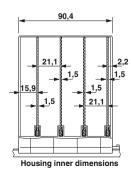
Tall design, width: 67.5 mm



Tall design, width: 90 mm

Technical dat	а		Technical	data			
ME 67,5 UT TBUS KMGY			ME 90 UT TBUS KMGY				
9.1 W 17.5 W	-		10.4 W	- -			
B 1 11 11/0			B				
Polyamide / V0			Polyamide / V0				
solid stranded	, I	U	solid stranded	1	U		
[mm ²] AV		[V]	[mm²]	AWG [A]	[V]		
	. 8	125		- 8	125		
Ordering data	а		Ordering of	data			
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.		
ME 67,5 UT TBUS KMGY	2200544	10	ME 90 UT TBUS KMGY	2200545	10		
Accessories	Accessories			Accessories			
ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722	50	ME 22,5 TBUS 1,5/ 5-ST-3,81 KMG\		50		
E/ME TBUS NS35 GY	2713780	50	E/ME TBUS NS35 GY	2713780	50		





Modular component housing for industrial electronics

Upper parts for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

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Marking systems and mounting materials: see Catalog 5.

At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.

For PCB connection technology, see page 656.

For accessories, refer to page: 674.



Width: 12.5 mm



Width: 17.5 mm

<i>9</i> 1		977
97		712

	Technical data			Technical da	ta	
Type of housing						
Electronic housings	Polyamide / V0			Polyamide / V0		
	Ordering date	a		Ordering dat	ta	
Description	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Housing upper part , for PCB terminal block connection with 3.5 or 5 mm pitch, color: green	ME 12,5 OTU-MKDSO GN	2278856	10	ME 17,5 OTU-MKDSO GN	2278872	10
Housing upper part, for COMBICON connection with 3.5 mm or 5 mm pitch, color: green Single-level Double-level Three-level	ME 12,5 OT-MSTBO GN	2906814	10	ME 17,5 OT-MSTBO GN	2906827	10
Housing upper part , for spring-cage PCB terminal block connection with 5 mm pitch, color: light gray				ME 17,5 OT-FKDSO KMGY	2200322	10
Housing upper part , for PCB terminal block connection with 3.5 or 5 mm pitch, color: light gray				ME 17,5 OTU-MKDSO KMGY	2278940	10
Housing upper part, for COMBICON connection with 3.5 mm or 5 mm pitch, color: light gray Single-level Double-level Three-level				ME 17,5 OT-MSTBO KMGY	2853747	10
Housing upper part, for COMBICON connection with 3.5 or 5 mm pitch, suitable for fitted covers and Plug Snap, color: light gray				ME 17.5 OTP-MSTBO PS KMGY	2279253	10
Fitted cover for ME upper parts MEOTP-MSTBO KMGY, color: light gray				ME 17,5 PLATE-MSTBO KMGY	2279266	10
Housing upper part set, complete with COMBICON headers and plugs for full mounting with 5 mm pitch, color: green						
Single-level Double-level Three-level	ME 12,5 OT-MSTBO SET	2907428	1	ME 17,5 OT-MSTBO SET	2907431	1
Housing upper part set , complete with PCB terminal blocks for full assembly, 5 mm pitch, color: green						
	ME 12,5 OT-MKDSO SET	2907457	1	ME 17,5 OT-MKDSO SET	2907460	1







Width: 35 mm



Width: 45 mm

91	FL	<i>9</i> 1

Technical data Technical data			Technical data					
Polyamide / V0	· · · · · · · · · · · · · · · · · · ·							
Ordering date	ta		Ordering date	ta		Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
ME 22,5 OTU-MKDSO GN	2278966	10	ME 17,5 OTU-MKDSO GN	2278872	10	ME 45 OTU-MKDSO GN	2279826	10
ME 22,5 OT-1MSTBO GN ME 22,5 OT-MSTBO GN ME 22,5 OT-3MSTBO GN	2709558 2907169 2735962	10 10 10	ME 35 OT-MSTBO GN	2709639	10	ME 45 OT-1MSTBO GN ME 45 OT-MSTBO GN	2709192 2909743	10 10
ME 22,5 OT-FKDSO KMGY	2200323	10	ME 17,5 OT-FKDSO KMGY	2200322	10	ME 45 OT-FKDSO KMGY	2200327	10
ME 22,5 OTU-MKDSO KMGY	2278953	10	ME 17,5 OTU-MKDSO KMGY	2278940	10	ME 45 OTU-MKDSO KMGY	2279923	10
ME 22,5 OT-1MSTBO KMGY ME 22,5 OT-MSTBO KMGY ME 22,5 OT-3MSTBO KMGY	2914877 2907761 2914880	10 50 10	ME 35 OT-MSTBO KMGY	2914864	10	ME 45 OT-1MSTBO KMGY ME 45 OT-MSTBO KMGY	2709299 2854429	10 10
ME 22,5 OTP-MSTBO PS KMGY	2279282	10	ME 17,5 OTP-MSTBO PS KMGY	2279253	10	ME 22,5 OTP-MSTBO PS KMGY	2279282	10
ME 22,5 PLATE-MSTBO KMGY	2279279	10	ME 17,5 PLATE-MSTBO KMGY	2279266	10	ME 22,5 PLATE-MSTBO KMGY	2279279	10
ME 22,5 OT-1MSTBO SET ME 22,5 OT-MSTBO SET ME 22,5 OT-3MSTBO SET	2707741 2907444 2707767	1 1 1	ME 35 OT-MSTBO SET	2707738	1	ME 45 OT-1MSTBO SET ME 45 OT-MSTBO SET	2707754 2909905	1
ME 22,5 OT-MKDSO SET	2907473	1	ME 17,5 OT-MKDSO SET	2907460	1	ME 45 OT-MKDSO SET	2909345	1

Modular component housing for industrial electronics

Upper parts for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

Notes:
Marking systems and mounting materials: see Catalog 5.
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.







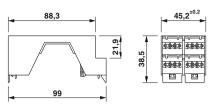
Width = 90 mm

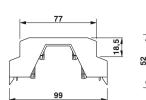
	Technical data			Technical da	ta	
Type of housing						
Electronic housings	Polyamide / V0			Polyamide / V0		
	Ordering data			Ordering data		
Description	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Housing upper part , for COMBICON connection with 3.5 mm or 5 mm pitch, single-level, color: light gray						
	ME 67,5 OT-1MSTBO KMGY	2200522	10	ME 90 OT-1MSTBO KMGY	2200523	10

Modular component housing for industrial electronics

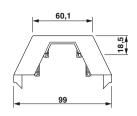
Upper parts ME...









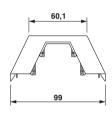


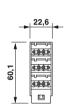
Side view ME...OT-1MSTBO

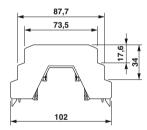
Side view ME...OT-MSTBO

Side view ME...OT-MKDSO









Side view ME...OT-FKDSO

Side view ME...OT-3MSTBO

Modular component housing for industrial electronics

Accessories for the ME housing



An extensive range of accessories is available for the ME housing range so that functions can be extended in precise accordance with requirements.

These include:

- ME B... filler plugs for closing unused terminal points. One filler plug is required for each terminal point
- ME...UTM intermediate elements and ME MF metal foot to increase the housing width
- ME PS... plug snap connector ejector with marking option in conjunction with ME...OTP-MSTBO PS upper housing parts
- ESL marking strips for ME PS ejector
- EML... labels to match housing contour for device-specific labels
- ME SAS shield connection clamp for potential connection of shielded cables

Marking systems and mounting materials: see Catalog 5.

At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.

For PCB connection technology, see page 656.



Accessories for ME 12,5

	Ordering data				
Description	Туре	Order No.	Pcs. / Pkt.		
Filler plug, for unoccupied terminal points, color: green					
For upper part of COMBICON, single and double-level For upper part of a PCB terminal block, double-level	ME B-12,5 MSTBO GN ME B-12,5 MKDSO GN	2906856 2906872	10 10		
For upper part of COMBICON, three-level, two pieces required per terminal point					
Filler plug, for unused terminal points, color: light gray					
For upper part of COMBICON, single and double-level	ME B-12,5 MSTBO KMGY	2854801	10		
For upper part of a PCB terminal block, double-level					
For upper part of spring-cage PCB terminal block, double-level	ME B-12,5 FKDSO KMGY	2200565	50		
For upper part of COMBICON, three-level, 2 required for each 22.5 mm terminal point					
Intermediate element, for modular extension of the housing volume, 17.5 /22.5 mm pitch, color: green					
with vents					
without vents Plug snap ejector for COMBICON plug-in connectors for use with MEOTP-MSTBO PS upper housing parts					
for MC connector					
for FMC connector					
for FKCT connector					
For MSTBT connector For TVFKCL connector					
For TVFKC connector					
Insert strips for Plug Snap, 1 sheet = 580 or 440 insert strips					
Thermal transfer label, material provided on rolls (1 roll = 200 labels), suitable for the side element of:					
ME UT	EML (44X76)R-ME	0828130	1		
ME F-UT	EML (44X76)R-ME	0828156	1		
ME SF-UT	EML (29X29)R-ME	0828172	1		
ME UT BUS	EML (44X64)R-ME	0828266	1		
ME F-UT BUS	EML (44X42)R-ME	0828279	1		
ME UT TBUS ME F-UT TBUS	EML (44X72)R-ME EML (44X49)R-ME	0828143 0828169	1		
Metal foot catch for intermediate element	LINE (TTATO)IT-INIE	3020109			
Shield connection clamp for PCB terminal block					
	ME-SAS	2853899	10		
Coding section for MSTBO headers, is inserted into the recess on the header					
On the second to the COMPLOON benders in inserts the time.	CR MSTBO-G1	2199618	100		
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material					
	CP-MSTB	1734634	100		







Accessories for ME 22,5

Ordering data			Ordering data			
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	
ME B-17,5 MSTBO GN ME B-17,5 MKDSO GN	2906869 2906885	10 10	ME B-22,5 MSTBO GN ME B-22,5 MKDSO GN ME B-12,5 3MSTBO GN	2907156 2907143 2709176	10 10 50	
ME B-17,5 MSTBO KMGY ME B-17,5 MKDSO KMGY ME B-17,5 FKDSO KMGY	2853776 2854115 2200566	10 10 50	ME B-22,5 MSTBO KMGY ME B-22,5 MKDSO KMGY ME B-22,5 FKDSO KMGY ME B-12,5 3MSTBO KMGY	2907965 2908498 2200567 2279787	50 10 50 50	
ME 35 UTM ME 35 UTMG ME PS-17,5 MC TRANS ME PS-17,5 FMC TRANS	2908265 2908275 2279842 2279949	10 10 50 50	ME 45 UTM GN ME 45 UTMG GN ME PS-22,5 MC TRANS ME PS-22,5 FMC TRANS	2853404 2853417 2279745 2279648	10 10 50 50	
			ME PS-22,5 FKCT TRANS ME PS-22,5 MSTBT TRANS ME PS-22,5 TVFKCL TRANS ME PS-22,5 TVFKC TRANS	2279046 2279062 2279088 2279075	50 50 50 50	
ESL 15X5 EML (44X76)R-ME EML (44X53)R-ME EML (29X29)R-ME EML (44X64)R-ME EML (44X42)R-ME EML (44X72)R-ME EML (44X49)R-ME	0822592 0828130 0828156 0828172 0828266 0828279 0828143 0828169	1 1 1 1 1 1 1 1	ESL 20X5 EML (44X76)R-ME EML (44X53)R-ME EML (29X29)R-ME EML (44X44)R-ME EML (44X42)R-ME EML (44X72)R-ME EML (44X49)R-ME	0822589 0828130 0828156 0828172 0828266 0828279 0828143 0828169	10 1 1 1 1 1 1	
ME MF 17,5	2908281	50	ME MF 17,5	2908281	50	
ME-SAS CR MSTBO-G1	2853899 2199618	100	ME-SAS CR MSTBO-G1	2853899 2199618	100	
CP-MSTB	1734634	100	CP-MSTB	1734634	100	

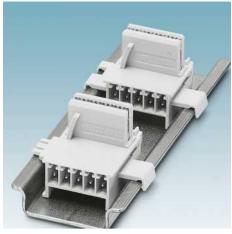
Modular component housing for industrial electronics

TBUS DIN rail connector



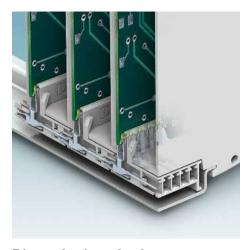
For ME and ME MAX housing ranges

- Equally suitable for both housing ranges
- For housing widths of 6.2 mm, 17.5 mm, and 22.5 mm and multiples thereof
- Snap-on mounting on standard DIN rail NS 35/7,5 or NS 35/15



Automatic contacting

- For parallel data transmission and power supply (125 V, 8 A)
- 5-pos.
- Gold-plated contacts
- "Self-constructing" contact chain in the housing pitch



Direct plug-in technology

- When the devices are snapped on, the contact points on the PCB slide directly into the gold-plated contact forks of the bus connector



Signal supply

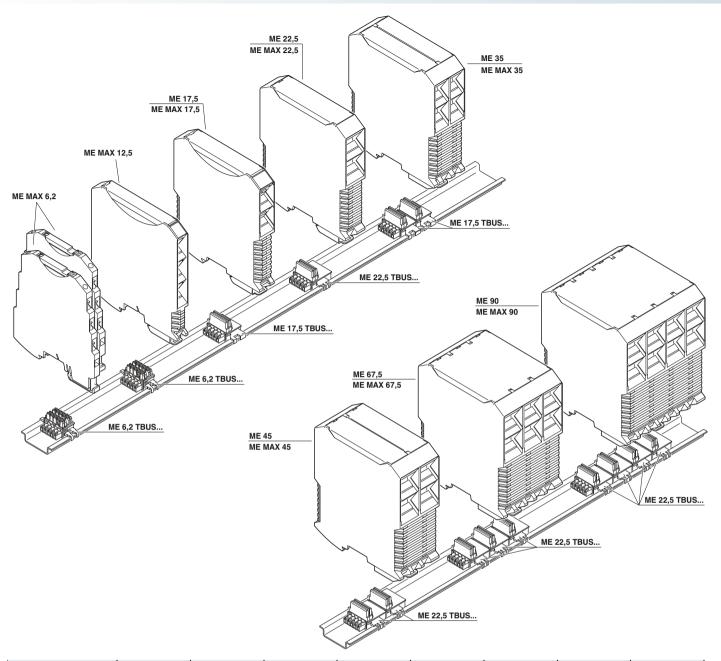
- MINI COMBICON plug-in connectors are used for the signal supply
- Supply clip for strain relief



Individual modules can be unplugged

- When a device is unplugged from the topology, the signal string is not interrupted

Modular component housing for industrial electronics



	ME MAX 6,2 Page 682	ME MAX 12,5 Page 684	ME 17,5 Page 666 ME MAX 17,5 Page 685	ME 22,5 Page 667 ME MAX 22,5 Page 686	ME 35 Page 667 ME MAX 35 Page 687	ME 45 Page 668 ME MAX 45 Page 688	ME 67,5 Page 669 ME MAX 67,5 Page 689	ME 90 Page 669 ME MAX 90 Page 690
ME 6,2 TBUS-2,5/5-ST-3,81 KMGY (2969401)	2 housings can be mounted on one TBUS	1 TBUS required per housing						
ME 17,5 TBUS-1,5/5-ST-3,81 KMGY (2713645)			1 TBUS required per housing		2 TBUS required per housing			
ME 22,5 TBUS-1,5/5-ST-3,81 KMGY (2713722)				1 TBUS required per housing		2 TBUS required per housing	3 TBUS required per housing	4 TBUS required per housing

Modular component housing for industrial electronics

ME MAX electronics housing



ME MAX U-U1 version electronics housings provide a connection level on one side of the housing combined with a universal cover. The other side of the housing is completely closed with a universal cover. This version is available in design widths from 17.5 up to 90 mm, either with or without vents. The height of the housing is 114.5 mm.



ME MAX 2-2 version electronics housings provide 2 connection levels on each side of the housing. This version is available in design widths from 17.5 up to 90 mm, either with or without vents. The height of the housing is 114.5 mm.



ME MAX 2-2 version electronics housings are also available in a super-flat design. This version is available in design widths of 17.5 mm, 22.5 mm, and 45 mm. The height of the housing is 70.4 mm.



ME MAX 3-3 version electronics housings provide 3 connection levels on each side of the housing. This version is available in design widths from 12.5 up to 90 mm, either with or without vents. The height of the housing is 114.5 mm.



ME MAX 3-3 version electronics housings are also available in a flat design. This version is available in design widths of 22.5 mm and 45 mm. The height of the housing is 92 mm.



ME MAX 6,2 version electronics housings provide 4 connection levels on each side of the housing. The connection technology, which is available in screw or spring-cage format, is firmly integrated in the housing. The height of the housing is 102.5 mm.

Modular component housing for industrial electronics

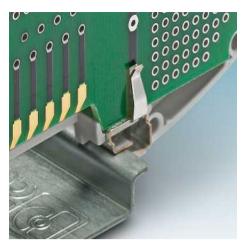


Mounting principle

Electronic components and PCB connection technology can be assembled and soldered in a single step. Once the assembled PCB has been inserted into the narrow housing half-shell, the second housing halfshell is simply snapped on.



Next, the fitted cover is inserted and the transparent cover is mounted. Finally, the metal foot catch is added.



Functional earth ground contact

A functional earth ground contact is available to improve electromagnetic compatibility. It connects the inserted PCB directly to the grounded DIN rail.



Function-oriented design

The housing has a large front surface for high-position connectors or operating and setting elements. The fitted cover can be easily modified, labeled, and even removed using a tool if necessary. The hinged transparent cover adds the final touch. The printing is thereby shielded against harmful environmental influences; the setting elements are protected effectively.



DIN rail connectors

The ME...TBUS connector snaps onto all standard NS 35/7.5 or NS 35/15 DIN rails taking up the minimum of space and providing a convenient means of wiring signal and supply voltages.

The bus connection is "self-constructing", adopting the same pitch as the devices. Snap on the connector, swivel the modules, and you're done! Complex pre-configuration or reworking of the bus connection on site are a thing of the past.



Removing individual modules from the topology

The design allows individual devices to be swung out of the module group. The contact chain is not interrupted.

Gold-plated contacts ensure the required level of transmission reliability. The familiar MINI COMBICON plug-in connectors from Phoenix Contact are suitable for the signal supply.

Modular component housing for industrial electronics

E MAX housing	Туре	Page	Width [mm]	PCB terminal block				
					Screw		Push-in	
				3.5 mm pitch	5 mm pitch	7.5 mm pitch	5 mm pitch	
				MKDSO 1,5/3,5	MKDSO 2,5/	MKDSO 2,5 HV7,5	FKDSO 2,5/	
				Page 89	Page 113	Page 125	Page 153	
				non	1111	MAR	0000	
	ME MAX 12,5	684	12.5	 3-pos. 	 2-pos. 		 2-pos. 	
-	ME MAX 17,5	685	17.5	 4-pos. 	 3-pos. 	 2-pos. 	 3-pos. 	
	ME MAX 22,5	686	22.5	• 5-pos.	 4-pos. 	 3-pos. 	 4-pos. 	
5	ME MAX 35	687	35	 4-pos. 	 3-pos. 	 2-pos. 	 3-pos. 	
10	ME MAX 45	688	45	• 5-pos.	 4-pos. 	 3-pos. 	 4-pos. 	
7	ME MAX 67,5	689	67.5	• 5-pos.	 4-pos. 	 3-pos. 	 4-pos. 	
	ME MAX 90	690	90	• 5-pos.	• 4-pos.	 3-pos. 	 4-pos. 	
	MEMAY 00 F F	000	22.5		4	2 2 2 2		
	ME MAX 22,5 F ME MAX 45 F	686 688	22.5 45	5-pos.5-pos.	4-pos.4-pos.	• 3-pos. • 3-pos.	4-pos.4-pos.	
	WE WAX 451	000	40	S spos.	4-1005.	у ориз.	Ф 4-риз.	
1	ME MAY 47 5 05	205	4					
	ME MAX 17,5 SF	685	17.5	• 4-pos.	• 3-pos.	• 2-pos.	• 3-pos.	
A Comment	ME MAX 22,5 SF ME MAX 45 SF	686 688	22.5 45	• 5-pos.	• 4-pos.	• 3-pos.	 4-pos. 4-nos 	
	WE MAA 45 SF	688	45	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.	

ME MAX housing	Туре	Page	Width [mm]		Filler plug	
				ME MAX B-12,5	ME MAX B-17,5	ME MAX B-22,5
				Page 684	Page 685	Page 686
				1	1	1
	ME MAX 12,5	684	12.5	•		
1	ME MAX 17,5	685	17.5		•	
	ME MAX 22,5	686	22.5			•
- 5	ME MAX 35	687	35		•	
- 1	ME MAX 45	688	45			•
7	ME MAX 67,5	689	67.5			•
	ME MAX 90	690	90			•
	ME MAX 22,5 F ME MAX 45 F	686 688	22.5 45			•
	ME MAX 17,5 SF ME MAX 22,5 SF	685 686	17.5 22.5		•	•
	ME MAX 45 SF	688	45			•

Modular component housing for industrial electronics

Header	
3.5 mm pitch 5 mm pitch Pitch: 5, touch proof Pitch: 5, THR 7.25 mm pitch	
MCO 1,5/3,5 MSTBO 2,5/ MSTBO 2,5/P MSTBO 2,5/THR UTMG GMSTBO 2,5 HV/THR UTMG	
Page 232	
● 3-pos.	
● 4-pos. ● 3-pos. ● 3-pos. ● 2-pos. Min. 0 to max. 3 per housin	
● 5-pos. ● 4-pos. ● 4-pos. ● 4-pos. ● 3-pos. Min. 0 to max. 3 per housin	
● 4-pos. ● 3-pos. ● 3-pos. ● 3-pos. ● 2-pos. Min. 0 to max. 6 per housin	ng side
● 5-pos.	ng side
● 5-pos.	ng side
● 5-pos. ● 4-pos. ● 4-pos. ● 4-pos. ● 3-pos. Min. 0 to max. 12 per housi	ing side
● 5-pos. ● 4-pos. ● 4-pos. ● 3-pos. 3 per housing side	
• 5-pos. • 4-pos. • 4-pos. • 4-pos. • 3-pos. 6 per housing side	
7 poc. 7	
• 4-pos. • 3-pos. • 3-pos. • 2-pos. 2 per housing side	
• 5-pos. • 4-pos. • 4-pos. • 3-pos. 2 per housing side	
• 5-pos. • 4-pos. • 4-pos. • 4-pos. • 3-pos. 4 per housing side	

Specified number of positions = number of positions per terminal point

Modular component housing for industrial electronics

ME MAX modular component housing



The electronic housings ME MAX 6,2 make it possible to realize individual and space-saving electronics components with a width of 6.2 mm.

The connection technology is firmly integrated in the housing, making it ready to take the components. Eight connections with a cross section of up to 2.5 mm² are available over four levels. These are available either as SCrew connection (SC) or in spring-cage technology (SP).

Simple through-contacting

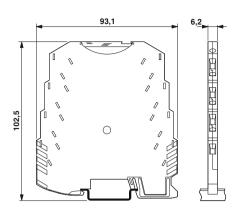
The DIN rail bus connectors are simply pushed into the DIN rail and snapped together. All signals contact automatically when the housing is snapped on. When the device is removed from the whole, the contact chain is not interrupted.

Further advantages:

- The same PCB geometry for spring-cage and screw versions
- Housing can be laser printed with conventional laser systems
- Simple device tests, thanks to integrated test openings
- Transparent front cover can be swiveled, reversed, and labeled
- IP20 shock protection

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

The rated connection data refers to untreated conductors without Torque [Nm] 0,5-0,6. 1) DIN rail connectors see page 676.



Type of housing		
Electronic housings		
Stripping length		
Connection data		

Description	
Electronic housings	
For DIN rail bus connector	

DIN rail bus connector, 2 x 5-pos.1)
Zack flat marker strip, 10-section, unprinted: for individual marking with TML (101X4,2)R TR, X–PEN or CMS–P1– PLOTTER, sufficient for marking 100 terminal blocks per pack
Marker pen, refillable, for manual marking, 0.35 mm line thick-

ness, can be refilled with CMS-INK-TR-C 5, delivered without ink Screwdriver



8-pos. with screw connection, width: 6.2 mm

LR 20 LR 3

Technical data						
PBT / V0						
12 mm						
solid	stranded		- 1	U		
	[mm ²]	AWG	[A]	[V]		
0.2 - 2.5	0.2 - 2.5	26 - 12	8	250		

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
ME MAX 6,2 SC 4-4 KMGY	2713094	10	
Accessies			

Accessories			
ZBF 6:UNBEDRUCKT	0808710	10	
X-PEN 0,35	0811228	1	
SZF 1-0,6X3,5	1204517	10	

Modular component housing for industrial electronics

c**911** us **911**



8-pos. with spring-cage connection, width: 6.2 mm



8-pos. with screw connection, for DIN rail bus connectors, width: 6.2 mm



8-pos. with spring-cage connection, for DIN rail bus connectors, width: 6.2 mm

c**911** us **911 LP** 2U **LP** 3

	Technica	al data			Technica	al data				Technical	data		
PBT / V0 8 mm				PBT / V0 12 mm					PBT / V0 8 mm				
	stranded mm ²]		I U A] [V]	solid [m	•	AWG	[A]	U [V]	solid	stranded [mm ²]	AWG	[A]	U [V]
0.2 - 2.5	0.2 - 2.5			0.2 - 2.5	0.2 - 2.5			250	0.2 - 2.5 0.2 - 2.5 24 - 12 8 250 Ordering data			250	
Туре		Order No	Pcs. / Pkt.	Туре		Or	der No.	Pcs. / Pkt.	Туре		Ord	er No.	Pcs. / Pkt.
ME MAX 6,2	SP 4-4 KMGY	2713104	10	ME MAX 6,2 S	C-TBUS 4-4 KMGY	2	869634	10	ME MAX 6,2	SP-TBUS 4-4 KMGY	286	69647	10
	Access	ories		Accessories			Accessories						
ZBF 6:UNBE	DRUCKT	0808710	10	ME 6,2 TBUS-2 ZBF 6:UNBEDF	2 1,5/5-ST-3,81KM0 RUCKT	-	969401 808710	10 10	ME 6,2 TBU ZBF 6:UNBI	S-2 1,5/5-ST-3,81KMG EDRUCKT		59401 08710	10 10
X-PEN 0,35		0811228	1	X-PEN 0,35		04	811228	1	X-PEN 0,35		08-	11228	1
SZF 1-0,6X3,	5	1204517	10	SZF 1-0,6X3,5		1:	204517	10	SZF 1-0,6X	3,5	120	04517	10

Modular component housing for industrial electronics

ME MAX modular component housing

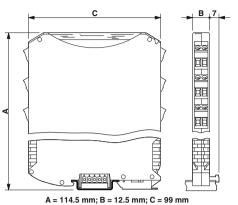




- Large PCB surface despite compact housing dimensions
- DIN rail bus connector as an option
- Simple exchange of modules without having to break the contact chain
- Permanent or pluggable connection technologies can be mixed on up to three connection levels, with different pitches
- Pluggable connection with screw springcage or fast connection technologies
- Large front surface for connectors or operating and setting elements with a high number of positions
- The fitted cover is easy to adapt and print
- The transparent front cover can be swung
- Functional earth ground contact optional
- labels for additional marking optional

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

•
Notes:
For PCB connection technology, see page 680.
1) For information on power dissipation, see page 770.
2) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
³) Please observe the derating curves. Derating curves of further combination options on request.
⁴) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
5) DIN rail connectors see page 676.



Power dissipation P_v at 20°C in horizontal mounting position¹) Mounted in rows without spacing Mounted in rows with min. 20 mm spacing Type of housing Electronic housings Connection data MSTBT 2.5/.. MSTBT 2,5 HC/... MKDSO 2 5/ ME 6.2 TBUS-2

Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring 6x2 positions, without vents, with TBUS option 6x2 positions, with vents, with TBUS option Pin strip for soldering into the PCB, for contacting in DIN rail bus connectors Box packaging Tape-on-reel packing DIN rail bus connector, 2 x 5-pos.5) gray

Filler plugs, for unoccupied terminal points

Description



Width: 12.5 mm

97

	Techr	nical data			
ME MAX 12, 3-3 TBUS KMGY	5				
4.4 W 8.4 W	-	-	-		
Polyamide / \	V0				
solid	stranded		- 1	U	
	[mm ²]	AWG	[A]	[V]	
0.2 - 2.5	0.2 - 2.5	24 - 12	123)	250	
0.2 - 2.5	0.2 - 2.5	24 - 12	164)	250	
0.14 - 2.5	0.14 - 2.5	26 - 14	242)	250	
	-	-	8	125	
Ordering data					

Туре	Order No.	Pcs. / Pkt.
ME MAX 12,5 G 3-3 TBUS KMGY ME MAX 12,5 3-3 TBUS KMGY	2279017 2279020	10 10
Accessories	;	

Accessories		
ME TBUS PST 1,5/5-3,81 ME TBUS PST 1,5/5-3,81 THRR32	2279033 2914369	50 440
ME 6,2 TBUS-2 1,5/5-ST-3,81KMGY	2969401	10
ME MAX B-12,5 KMGY	2914660	10

Modular component housing for industrial electronics

ME MAX modular component housing

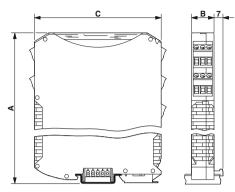
Notes:

Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.

The connection cross section refers to untreated conductors without ferrules.

For PCB connection technology, see page 680.

- 1) For information on power dissipation, see page 770.
- 2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection technologies are thus possible.
- 3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- 4) Please observe the derating curves. Derating curves of further combination options on request.
- 5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
- 6) DIN rail connectors see page 676.



A = 70.4, 114.5 mm; B = 17.5 mm; C = 85 or 99 mm

Power dissipation P_V at 20°C in horizontal mounting position¹)

Mounted in rows without spacing

Mounted in rows with min. 20 mm spacing Type of housing

Electronic housings

Connection data

MSTBT 2,5/..

MSTBT 2,5 HC/...

MKDSO 2,5/..

ME...TBUS 1,5/

Description Width [mm]

Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring

- (1 x 3 positions), with vents
- (1 x 3 positions), without vents (4 x 3 positions), with vents
- (4 x 3 positions), without vents
- (6 x 3 positions), with vents
- (6 x 3 positions), without vents

Electronic housing, superflat design, height x depth (70.4 x 85

(4 x 3 positions), without vents

PCB connection technology set for 6 x 3 positions (18-pos.) with a 5 mm pitch2)

PCB terminal blocks

COMBICON headers and screw plugs

PCB, for custom fitting with COMBICON connection technology, for high design (114.5 mm)

DIN rail bus connector, 5-pos.6)

Filler plugs, for unoccupied terminal points

Filler plugs for TBUS recess

1 sheet = 242 labels

Functional earth ground contact, for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX hous-

Label sheet for laser printer, for electronic housing ME MAX



Width: 17.5 mm

LP 2U **LP** 3

Technical data							
ME MAX 17,5 U-U1 KMGY	ME MAX 17,5 G U-U1 KMGY						
5.2 W	4.9 W	-	-				
10.8 W	8.9 W	-	-				

Polyamide / V0				
solid	stranded		1	U
[m	m ²]	AWG	[A]	[V]
0.2 - 2.5	0.2 - 2.5	24 - 12	124)	250
0.2 - 2.5	0.2 - 2.5	24 - 12	165)	250
0.14 - 2.5	0.14 - 2.5	26 - 14	24^{3})	250
-	-	-	8	125

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
ME MAX 17,5 U-U1 KMGY ME MAX 17,5 G U-U1 KMGY ME MAX 17,5 G 2-2 KMGY ME MAX 17,5 G 2-2 KMGY ME MAX 17,5 G 3-3 KMGY ME MAX 17,5 G 3-3 KMGY	2713641 2713515 2713599 2713609 2713612 2713531	10 10 10 10 10 10		
ME MAX 17,5 SF G 2-2 KMGY	2901369	10		

Accessories				
MKDOO O EKO O OFT KNOV	0740705			
MKDSO 2,5/ 3-6 SET KMGY MSTBO 2,5/ 3-6 ST SET KMGY	2713735 2713748	1		
ME MAX LP SAMPLE MSTBO 2-2	2713777	5		
ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713645	50		
ME MAX B-17,5 KMGY	2706959	50		
ME MAX TBUS BS KMGY	2199650	50		
ME BUS FE CONTACT	2278076	50		
BMKLT 14X12 WH	0813789	2		
DIMILET THATE WIT	0010100	_		

Modular component housing for industrial electronics

ME MAX modular component housing

Notes:

Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.

The connection cross section refers to untreated conductors without ferrules.

For PCB connection technology, see page 680.

1) For information on power dissipation, see page 770.

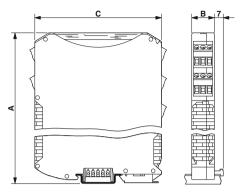
2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection technologies are thus possible.

3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

4) Please observe the derating curves. Derating curves of further combination options on request.

5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

6) DIN rail connectors see page 676.



A = 70.4, 92, 114.5 mm; B = 22.5 mm; C = 85, 99 mm

Power dissipation P_V at 20°C in horizontal mounting position¹)

Mounted in rows without spacing

Mounted in rows with min. 20 mm spacing

Type of housing Electronic housings

Connection data

MSTBT 2,5/...

MSTBT 2,5 HC/...

MKDSO 2,5/..

ME...TBUS 1,5/

1			
1			
		¥5	
U			

Width: 22.5 mm

LR 2**LR**3

Technical data							
ME MAX 22,5	ME MAX 22,5	ME MAX 22,5					
U-U1 KMGY	G U-U1 KMGY	F G 3-3 KMGY					
6.1 W	5.7 W	5.5 W	-				
12.1 W	10.1 W	9.6 W					

Polyamide / V0				
solid	stranded		1	U
[m	ım²]	AWG	[A]	[V]
0.2 - 2.5	0.2 - 2.5	24 - 12	124)	250
0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁵)	250
0.14 - 2.5	0.14 - 2.5	26 - 14	243)	250
-	-	-	8	125

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
ME MAX 22,5 U-U1 KMGY ME MAX 22,5 G U-U1 KMGY ME MAX 22,5 2-2 KMGY ME MAX 22,5 G 2-2 KMGY ME MAX 22,5 3-3 KMGY ME MAX 22,5 G 3-3 KMGY	2713476 2713489 2713625 2713638 2713939 2713942	10 10 10 10 10	
ME MAX 22,5 F G 3-3 KMGY ME MAX 22,5 SF G 2-2 KMGY	2869388 2869362	10 10	

Accessories	Accessories				
MKDSO 2,5/4-6 SET KMGY	2713751	1			
MSTBO 2,5/4-6 ST SET KMGY	2713764	1			
ME MAX LP SAMPLE MSTBO 2-2	2713777	5			
ME 22,5 TBUS 1,5/5-ST-3,81 KMGY	2713722	50			
ME MAX B-22,5 KMGY	2707929	10			
ME MAX TBUS BS KMGY	2199650	50			
ME BUS FE CONTACT	2278076	50			
BMKLT 19X12 WH	0813792	4			

Description Width [mm] Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring (1 x 4 positions), with vents (1 x 4 positions), without vents (4 x 4 positions), with vents (6 x 4 positions), without vents (8 x 4 positions), without vents Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design, Height x depth (70.4 x 85 mm), (4 x 4 positions), without vents		
plate, transparent cover, metal foot catch and spring (1 x 4 positions), with vents (1 x 4 positions), without vents (4 x 4 positions), without vents (4 x 4 positions), without vents (6 x 4 positions), with vents (6 x 4 positions), with vents (6 x 4 positions), with vents Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design,	Description	Width [mm]
(1 x 4 positions), without vents (4 x 4 positions), with vents (4 x 4 positions), without vents (6 x 4 positions), without vents (6 x 4 positions), without vents Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design,		g shells, front
(4 x 4 positions), with vents (4 x 4 positions), without vents (6 x 4 positions), with vents (6 x 4 positions), with vents (6 x 4 positions), without vents Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design,	(1 x 4 positions), with vents	
(4 x 4 positions), without vents (6 x 4 positions), with vents (6 x 4 positions), with vents (6 x 4 positions), without vents Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design,	(1 x 4 positions), without vents	
(6 x 4 positions), with vents (6 x 4 positions), without vents Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design,	(4 x 4 positions), with vents	
(6 x 4 positions), without vents Electronic housing , comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design,	(4 x 4 positions), without vents	
Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design,	(6 x 4 positions), with vents	
plate, transparent cover, metal foot catch and spring Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design,	(6 x 4 positions), without vents	
Height x depth (92 x 85 mm), (6 x 4 positions), without vents Extremely low-profile design,		g shells, front
Extremely low-profile design,	Low profile design,	
, , ,	Height x depth (92 x 85 mm), (6 x 4 positions), without	t vents
Height x depth (70.4 x 85 mm), (4 x 4 positions), without vents	, ,	
	Height x depth (70.4 x 85 mm), (4 x 4 positions), without	out vents

Height x depth (70.4 x 65 mm), (4 x 4 positions), without verits
PCB connection technology set for 6 x 4 positions (24-pos.) with a 5 mm pitch²)
PCB terminal blocks
COMBICON headers and screw plugs
PCB, for custom fitting with COMBICON connection technology, for high design (114.5 mm)
DIN rail bus connector, 5-pos.s)
Filler plugs, for unoccupied terminal points
Filler plugs for TBUS recess
Functional earth ground contact, for connection of the PCB to

the grounded DIN rail, for ME BUS, ME TBUS and ME MAX holings	us-	
Label sheet for laser printer, for electronic housing ME MAX		
· · ·		
1 sheet = 176 labels	12	

ME MAX modular component housing

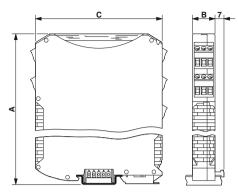
Notes:

Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.

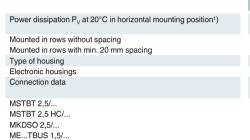
The connection cross section refers to untreated conductors without ferrules.

For PCB connection technology, see page 680.

- 1) For information on power dissipation, see page 770.
- 2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection technologies are thus possible.
- 3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- 4) Please observe the derating curves. Derating curves of further combination options on request.
- ⁵) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
- 6) DIN rail connectors see page 676.



A = 114.5 mm; B = 35 mm; C = 99 mm,





Technical data				
ME MAX 35 U- U1 KMGY	ME MAX 35 G U-U1 KMGY			
7.9 W	7.5 W	-	-	
16.3 W	13.8 W	-	-	
Polyamide / V0				
solid	stranded		1	U
[mi	m ²]	AWG	[A]	[V]
0.2 - 2.5	0.2 - 2.5	24 - 12	124)	250
0.2 - 2.5	0.2 - 2.5	24 - 12	165)	250
0.14 - 2.5	0.14 - 2.5	26 - 14	243)	250
-	-	-	8	125

Ordering data

Description Wid	dth [mm]	Туре	Order No.	Pcs. / Pkt.
Electronic housing, comprising left and right housing shel front plates, 2 transparent covers, intermediate element, me catch and spring				
(2 x 3 positions), with vents		ME MAX 35 U-U1 KMGY	2713667	10
(2 x 3 positions), without vents		ME MAX 35 G U-U1 KMGY	2713528	10
(8 x 3 positions), with vents		ME MAX 35 2-2 KMGY	2713670	10
(8 x 3 positions), without vents		ME MAX 35 G 2-2 KMGY	2713683	10
(12 x 3 positions), with vents		ME MAX 35 3-3 KMGY	2713696	10
(12 x 3 positions), without vents		ME MAX 35 G 3-3 KMGY	2713544	10
Electronic housing , as above, but with a wide transparent and a wide front plate	cover			
(8 x 3 positions), with vents		ME MAX 35 LC 2-2 KMGY	2200597	10
(12 x 3 positions), with vents		ME MAX 35 LC 3-3 KMGY	2200596	10
· · · · · · · · · · · · · · · · · · ·		Accessories		
PCB connection technology set for 6 x 3 positions (18-po a 5 mm pitch²)	s.) with			
PCB terminal blocks		MKDSO 2,5/ 3-6 SET KMGY	2713735	1
COMBICON headers and screw plugs		MSTBO 2,5/ 3-6 ST SET KMGY	2713748	1
PCB, for custom fitting with COMBICON connection technology, for high design (114.5 mm)		ME MAX LP SAMPLE MSTBO 2-2	2713777	5
DIN rail bus connector, 5-pos.6)		ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713645	50
Filler plugs, for unoccupied terminal points		ME MAX B-17,5 KMGY	2706959	50
Filler plugs for TBUS recess		ME MAX TBUS BS KMGY	2199650	50
Functional earth ground contact, for connection of the Pthe grounded DIN rail, for ME BUS, ME TBUS and ME MAXings		ME BUS FE CONTACT	2278076	50
Label sheet for laser printer, for electronic housing ME N	MAX			
1 sheet = 110 labels	12	BMKLT 31,5X12 WH	0813802	4

Modular component housing for industrial electronics

ME MAX modular component housing

Notes:

Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.

The connection cross section refers to untreated conductors without ferrules.

For PCB connection technology, see page 680.

1) For information on power dissipation, see page 770.

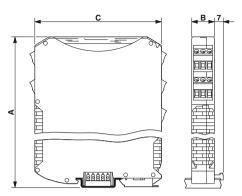
2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection technologies are thus possible.

3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

4) Please observe the derating curves. Derating curves of further combination options on request.

5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

6) DIN rail connectors see page 676.



A = 70.4, 92, 114.5 mm; B = 45 mm; C = 85, 99 mm

Power dissipation P_V at 20°C in horizontal mounting position¹)

Mounted in rows without spacing

Mounted in rows with min. 20 mm spacing Type of housing

Electronic housings

Connection data

MSTBT 2,5/... MSTBT 2,5 HC/...

MKDSO 2,5/..

ME...TBUS 1,5/



Width: 45 mm

LP US **91**

Technical data				
ME MAX 45 U- U1 KMGY	ME MAX 45 G U-U1 KMGY			
8.2 W	7.6 W	-	-	
16.5 W	14.1 W	-	-	

Polyamide / V0				
solid	stranded		- 1	U
[m	m ²]	AWG	[A]	[V]
0.2 - 2.5	0.2 - 2.5	24 - 12	124)	250
0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁵)	250
0.14 - 2.5	0.14 - 2.5	26 - 14	243)	250
-	-	-	8	125

Ordering data			
Type Order No.			
ME MAX 45 U-U1 KMGY	2713492	10	
ME MAX 45 G U-U1 KMGY	2713502	10	
ME MAX 45 2-2 KMGY	2713706	10	
ME MAX 45 G 2-2 KMGY	2713719	10	
ME MAX 45 3-3 KMGY ME MAX 45 G 3-3 KMGY	2713913 2713926	10 10	
III. III.A. 43 G G G KIIIGT	2710320	10	
ME MAX 45 F G 3-3 KMGY	2869391	10	
ME MAX 45 SF G 2-2 KMGY	2869375	10	
ME MAX 45 LC 2-2 KMGY	2200071	10	
ME MAX 45 LC 3-3 KMGY	2890179	10	

ME MAX 45 LC 2-2 KMGY ME MAX 45 LC 3-3 KMGY	2200071 2890179	10 10
Accessories	;	
MKDSO 2,5/4-6 SET KMGY	2713751	1
MSTBO 2,5/4-6 ST SET KMGY	2713764	1
ME MAX LP SAMPLE MSTBO 2-2	2713777	5
ME 22,5 TBUS 1,5/5-ST-3,81 KMGY	2713722	50
ME MAX B-22,5 KMGY	2707929	10
ME MAX TBUS BS KMGY	2199650	50
ME BUS FE CONTACT	2278076	50
BMKLT 41,5X12 WH	0813815	5

Description	Width [mm
Electronic housing, comprising left and right housing front plates, 2 transparent covers, intermediate elementation and spring	
(2 x 4 positions), with vents	
(2 x 4 positions), without vents	
(8 x 4 positions), with vents	
(8 x 4 positions), without vents	
(12 x 4 positions), with vents	
(12 x 4 positions), without vents	
Electronic housing , comprising left and right housing front plates, 2 transparent covers, intermediate elementary and spring	
Low profile design,	
height x depth (92 x 85 mm), (12 x 4 positions), without	out vents
Superflat design,	
height x depth (70.4 x 85 mm), (8 x 4 positions), with	
Electronic housing, as above, but with a wide trans and a wide front plate	parent cover
(8 x 4 positions), with vents	

PCB connection technology set for 6 x 4 positions (24-pos.) with

a 5 mm pitch2) PCB terminal blocks

(12 x 4 positions), with vents

COMBICON headers and screw plugs

PCB, for custom fitting with COMBICON connection technology, for high design (114.5 mm)

DIN rail bus connector, 5-pos.6)

Filler plugs, for unoccupied terminal points

Filler plugs for TBUS recess

Functional earth ground contact, for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX hous-

Label sheet for laser printer, for electronic housing ME MAX 1 sheet = 88 labels

ME MAX modular component housing

For PCB connection technology, see page 680.

1) For information on power dissipation, see page 770.

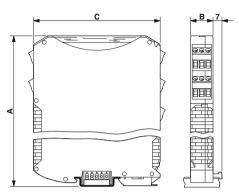
²) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection technologies are thus possible.

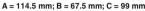
3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

4) Please observe the derating curves. Derating curves of further combination options on request.

5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

6) DIN rail connectors see page 676.







Width: 67.5 mm

Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings
Connection data
MSTBT 2,5/
MSTBT 2,5 HC/
MKDSO 2,5/
METBUS 1,5/

i ecililicai uata				
ME MAX 67,5 U-U1 KMGY	ME MAX 67,5 G U-U1 KMGY			
9.1 W	8.5 W	-	-	
17.5 W	15 W	-	-	
Polyamide / V0				
solid	stranded		1	U
[mi	m ²]	AWG	[A]	[V]
0.2 - 2.5	0.2 - 2.5	24 - 12	124)	250
0.2 - 2.5	0.2 - 2.5	24 - 12	16 ⁵)	250
0.14 - 2.5	0.14 - 2.5	26 - 14	243)	250
-	-	-	8	125

Ordering data

Tochnical data

		•		
Description	Width [mm]	Туре	Order No.	Pcs. / Pkt.
Electronic housing , comprising left and right housing piece insertable front plate, one-piece transparent covate elements, metal foot catch with spring				
(3×4) positions with a 5 mm pitch, with vents (3×4) positions with a 5 mm pitch, without vents		ME MAX 67,5 U-U1 KMGY ME MAX 67,5 G U-U1 KMGY	2200547 2200528	10 10
(12 x 4) positions with a 5 mm pitch, with vents		ME MAX 67,5 2-2 KMGY	2200524	10
(12 x 4) positions with a 5 mm pitch, without vents		ME MAX 67,5 G 2-2 KMGY	2200525	10
(18 x 4) positions with a 5 mm pitch, with vents		ME MAX 67,5 3-3 KMGY	2200526	10
(18 x 4) positions with a 5 mm pitch, without vents		ME MAX 67,5 G 3-3 KMGY	2200527	10

Accessories	•	
MKDSO 2,5/4-6 SET KMGY MSTBO 2,5/4-6 ST SET KMGY	2713751 2713764	1 1
ME MAX LP SAMPLE MSTBO 2-2	2713777	5
ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722	50
ME MAX B-22,5 KMGY	2707929	10
ME MAX TBUS BS KMGY	2199650	50
ME BUS FE CONTACT	2278076	50
BMKLT 41,5X12 WH	0813815	5
	MKDSO 2,5/4-6 SET KMGY MSTBO 2,5/4-6 ST SET KMGY ME MAX LP SAMPLE MSTBO 2-2 ME 22,5 TBUS 1,5/5-ST-3,81 KMGY ME MAX B-22,5 KMGY ME MAX TBUS BS KMGY ME BUS FE CONTACT	MSTBO 2,5/4-6 ST SET KMGY 2713764 ME MAX LP SAMPLE MSTBO 2-2 2713777 ME 22,5 TBUS 1,5/5-ST-3,81 KMGY 2707929 ME MAX B-22,5 KMGY 2199650 ME BUS FE CONTACT 2278076

Modular component housing for industrial electronics

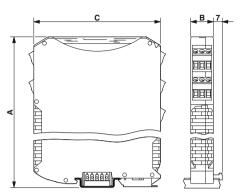
ME MAX modular component housing

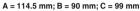
Notes:

For PCB connection technology, see page 680.

1) For information on power dissipation, see page 770.

- ²) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection technologies are thus possible.
- 3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
- 4) Please observe the derating curves. Derating curves of further combination options on request.
- 5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
- 6) DIN rail connectors see page 676.







Width = 90 mm

Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings
Connection data
MSTBT 2,5/
MSTBT 2,5 HC/
MKDSO 2,5/
METBUS 1,5/

ME MAX 90 U- ME MAX 90 G U1 KMGY U-U1 KMGY				
10.4 W	9.7 W	-	-	
18.9 W	16.4 W	-	-	
Polyamide / V0				
solid	stranded		1	U
[mr	n²]	AWG	[A]	[V]
0.2 - 2.5	0.2 - 2.5	24 - 12	124)	250
0.2 - 2.5	0.2 - 2.5	24 - 12	165)	250
0.14 - 2.5	0.14 - 2.5	26 - 14	243)	250
			0	105

Technical data

Description Width [mm]	
Electronic housing , comprising left and right housing shells, one- piece insertable front plate, one-piece transparent cover, intermedi- ate elements, metal foot catch with spring	
(4×4) positions with 5 mm pitch, with vents (4×4) positions with 5 mm pitch, without vents	1
(16 x 4) positions with 5 mm pitch, with vents	ı
(16 x 4) positions with 5 mm pitch, without vents	ı
(24 x 4) positions with 5 mm pitch, with vents	ı
(24 x 4) positions with 5 mm pitch, without vents	ı

Ordering data	Ordering data		
Туре	Order No.	Pcs. / Pkt.	
ME MAX 90 U-U1 KMGY ME MAX 90 G U-U1 KMGY	2200546 2200533	10 10	
ME MAX 90 2-2 KMGY	2200529	10	
ME MAX 90 G 2-2 KMGY	2200530	10	
ME MAX 90 3-3 KMGY	2200531	10	
ME MAX 90 G 3-3 KMGY	2200532	10	

PCB connection technology set for 6 x 4 positions (24-pos.) was 5 mm pitch ²)	vith
PCB terminal blocks	
COMBICON headers and screw plugs	
PCB, for custom fitting with COMBICON connection technology, for high design (114.5 mm)	
DIN rail bus connector, 5-pos.6)	
Filler plugs, for unoccupied terminal points	
Filler plugs for TBUS recess	
Functional earth ground contact, for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX hou ings	
Label sheet for laser printer, for electronic housing ME MAX	
1 sheet = 88 labels	12

Accessories				
MKDSO 2,5/4-6 SET KMGY	2713751	1		
MSTBO 2,5/4-6 ST SET KMGY	2713764	1		
ME MAY I D CAMPI E MOTEO O O	0740777	_		
ME MAX LP SAMPLE MSTBO 2-2	2713777	5		
ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	2713722	50		
ME MAX B-22,5 KMGY	2707929	10		
ME MAY TRUO DO KMOV	0400050	50		
ME MAX TBUS BS KMGY	2199650	50		
ME BUS FE CONTACT	2278076	50		
BMKLT 41,5X12 WH	0813815	5		

Modular component housing for industrial electronics

ME MAX ordering data for delivery quantities < 10 pcs.

Order No.	Туре	Pcs. / Pkt.	Description
2201314	ME MAX 17,5 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 3-pos. (1 x 3-pos.), width: 17.5 mm, color: light gray
2201315	ME MAX 17,5 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 12-pos. (4 x 3-pos.), width: 17.5 mm, color: light gray
2201316	ME MAX 17,5 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 18-pos. (6 x 3-pos.), width: 17.5 mm, color: light gray
2201317	ME MAX 17,5 SF G 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, without vents, 18-pos. (6 x 3-pos.), design: ultra-flat, height x depth (70.4 x 85 mm), width: 17.5 mm, color: light gray
2201318	ME MAX 22,5 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 4-pos. (1 x 4-pos.), width: 22.5 mm, color: light gray
2201319	ME MAX 22,5 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 16-pos. (4 x 4-pos.), width: 22.5 mm, color: light gray
2201320	ME MAX 22,5 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 24-pos. (6 x 4-pos.), width: 22.5 mm, color: light gray
2201321	ME MAX 22,5 F G 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, closed housing, 24-pos. (6 x 4-pos.), design: flat, width: 22.5 mm, color: light gray
2201322	ME MAX 22,5 SF G 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, closed housing, 16-pos. (4 x 4-pos.), design: ultra-flat, width: 22.5 mm, color: light gray
2201323	ME MAX 35 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, open housing, 6-pos. (2 x 3-pos.), width: 35 mm, color: light gray
2201324	ME MAX 35 LC 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 24-pos. (8 x 3-pos.), width: 35 mm, color: light gray
2201325	ME MAX 35 LC 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 36-pos. (12 x 3-pos.), width: 35 mm, color: light gray
2201326	ME MAX 45 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, open housing, 8-pos. (2 x 4-pos.), width: 45 mm, color: light gray
2201328	ME MAX 45 LC 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 36-pos. (12 x 3-pos.), width: 45 mm, color: light gray
2201329	ME MAX 45 LC 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 48-pos. (12 x 4-pos.), width: 45 mm, color: light gray
2201330	ME MAX 45 F G 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, closed housing, 48-pos. (12 x 4-pos.), design: flat, width: 45 mm, color: light gray
2201331	ME MAX 45 SF G 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, closed housing, 32-pos. (8 x 4-pos.), design: ultra-flat, width: 45 mm, color: light gray
2201333	ME MAX 67,5 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 12-pos. (3 x 4-pos.), width: 67.5 mm, color: light gray
2201335	ME MAX 67,5 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 48-pos. (12 x 4-pos.), width: 67.5 mm, color: light gray
2201336	ME MAX 67,5 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 72-pos. (18 x 4-pos.), width: 67.5 mm, color: light gray
2201337	ME MAX 90 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 16-pos. (4 x 4-pos.), width: 90 mm, color: light gray
2201338	ME MAX 90 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 64-pos. (16 x 4-pos.), width: 90 mm, color: light gray
2201339	ME MAX 90 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 96-pos. (24 x 4-pos.), width: 90 mm, color: light gray

Modular component housing for industrial electronics

Overview of connector plugs for integrated bus connectors and DIN rail connectors





Standard color green

Technical data

Standard color light gray

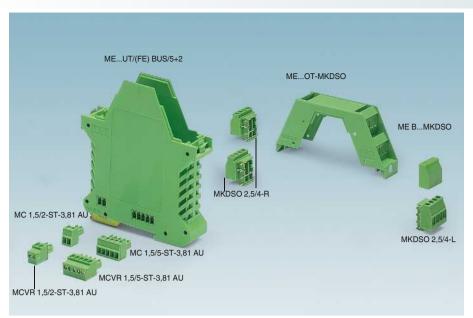
Technical data

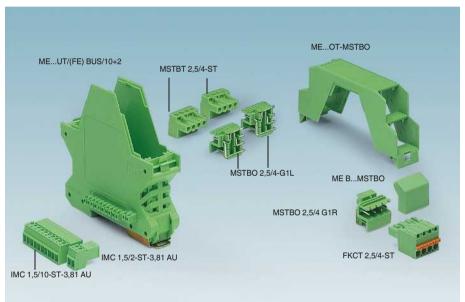


◍	c 91 us	P	VDE	CB
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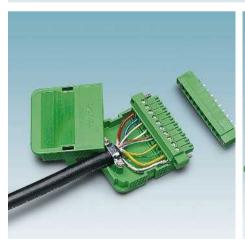
0									P. I				
Connection data				solid [m	stranded m ²¹	AWG	[A]	U [V]	solid	stranded m ²]	AWG	і [А]	U [V]
MCVR 1,5/				0.14 - 1.5	0.14 - 1.5	28 - 16		160	0.14 - 1.5	0.14 - 1.5	28 - 16	رم _ا 8	160
MC 1,5/				0.14 - 1.5	0.14 - 1.5	28 - 16		160	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
IMC 1,5/				0.14 - 1.5	0.14 - 1.5	28 - 16		160	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
					Orderin	a doto				Ordering	doto		
					Orderiii	y uata				Ordering	uala		
Description	Grid [mm]	No. of pos.	Width [mm]	Туре		o	rder No.	Pcs. / Pkt.	Туре		Ord	er No.	Pcs. / Pkt.
Plugs for bus connectors ductor axis, gold-plated cor		on paralle	to the con-										
	3.81	2		MCVR 1,5/ 2-S	Γ-3.81 AU	1	940680	50					
	3.81	5		MCVR 1,5/ 5-S			893203	50	MCVR 1,5/ 5-S	T-3,81 GY7035 AU	171	9684	50
	3.81	10		MCVR 1,5/10-S	T-3,81 AU	1	893216	50	MCVR 1,5/10-9	ST-3,81 KMGY AU	193	6186	50
Plugs for bus connectors axis, gold-plated contacts	, plug-in directi	on paralle	to the PCB										
	3.81	2		MC 1,5/ 2-ST-3	,81 AU	1	851999	50					
	3.81	5		MC 1,5/ 5-ST-3		1	860883	50	MC 1,5/ 5-ST-3	,81 GY7035 AU	171	9697	50
	3.81	10		MC 1,5/10-ST-3	3,81 AU	1	879599	50					
Inverted plugs for bus co the conductor axis, gold-pla		g-in direction	on parallel to										
	3.81	2		IMC 1,5/ 2-ST-3	3,81 AU	1	943263	50					
	3.81	5		IMC 1,5/ 5-ST-3	3,81 AU	1	943276	50	IMC 1,5/ 5-ST-	3,81 GY7035 AU	171	9707	50
	3.81	10		IMC 1,5/10-ST-	3,81 AU	1	943289	50					
Terminal cover, 1 strip cov	ers up to 12 te	rminal poir	nts										
For terminal opening (pin)				ME B-KA		2	2854173	50	ME B-KA KMG	Υ	270	6302	50
For plug side (socket)				ME B-SA/NS 35	5	2	935959	10	ME B-SA/NS 3	5 KMGY	270	6700	10
Spacers, for protection of t NS 35	he input or outp	out contact	s for DIN rail										
				ME DH27 NS 3 ME DH36 NS 3	-		908760 909895	50 50	ME DH 27 NS 3 ME DH 36 NS 3			6289 6292	10 10
Power clip for TBUS plug MC(VR) 1,5/5 or IMC 1,5			ction with										
									E/ME TBUS NS	335 GY	271	3780	50

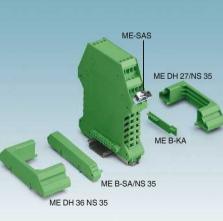
Modular component housing for industrial electronics







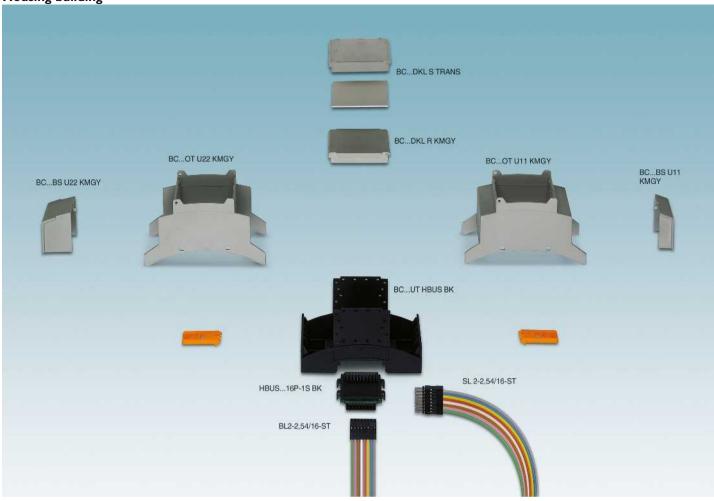






Building installation housings according to DIN EN 43880

Housing building



The BC electronic housings have been designed for future-oriented applications in building technology. In addition to the modern design, this housing range offers numerous other features.



The housing complies with DIN 43880, thus guaranteeing problem-free operation in all common distributor boards.



Automatic contacting between devic-

The 16-pos. DIN rail connector supports both parallel and serial data transmission plus power supply.

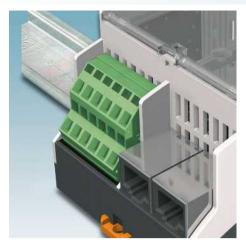
Gold-plated contacts ensure a high level of transmission reliability. They are mounted by simply snapping them onto the DIN rail.



Protection for DIN rail connectors

Cover caps are available to protect unused HBUS DIN rail connectors. They are mounted by simply snapping them on and can be removed by hand or using a screwdriver.

Building installation housings according to DIN EN 43880



Free selection of corresponding PCB connection technology

BC...U11 housing types with a small clamping space are ideal for the connection technology used in COMBICON compact building technology. If using conventional connection technology or data plug-in connectors, BC...U22 housing versions with a large clamping space are available.

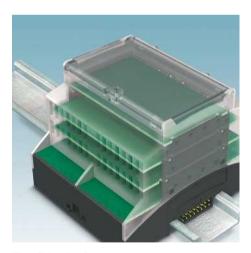


Various cover versions for optimum device design

A transparent cover including fitted cover and a light gray cover, which is the color of the housing, is available for all housing widths. The transparent cover can be swiveled open and is therefore suitable for devices in which indication or operating elements are used.

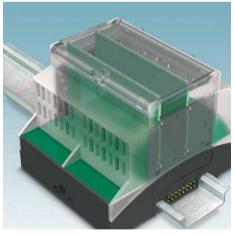


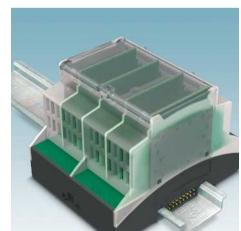
The fitted cover, which is inserted below the cover, can be labeled easily. The cover can be sealed, thus ensuring the device safety required. The opaque cover is the same color as the housing. It is latched onto the upper part of the housing and cannot be removed.



Flexible device concepts

Internal PCB guides in all three space directions enable the electronic components to be installed in a functional and convenient manner. The PCBs can be snapped on parallel to the DIN rail on different levels as well as orthogonally in different positions.





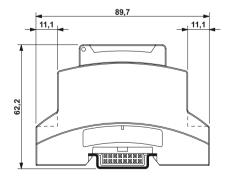
Building installation housings according to DIN EN 43880

Matrix for selecting the connection technology

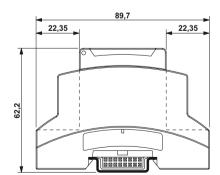
Module	BC 17,8 OTU	BC 35,6 OT U11	BC 35,6 OT U22	BC 53,6 OT U11	BC 53,6 OT U22	BC 71,6 OT U11
Terminal installation depth	2011,0010	11.1 mm	22.35 mm	11.1 mm	22.35 mm	11.1 mm
MKDSO 1,5/4-L-3,5	•		-	-	-	-
MKDSO 1,5/4-R-3,5	•		_	_	_	-
MKDSO 2,5/3-L	•	-	-	-	-	-
MKDSO 2,5/3-R	•	_	-	_	_	_
MKDS 1,5/ HT	-	•	•	•	•	•
MKDS 3/ HT	-	•	•	•	•	•
MKDS 1,5/	-	•	•	•	•	•
MKDSP 1,5/	-	•	•	•	•	•
MKDSN 2.5/	-	•	•	•	•	•
MKDS 3/	-	•	•	•	•	•
MKDSP 3/	-	•		•	•	•
MKKDSH 3/	-	•	•	•	•	•
GMKDS 1,5/	-	•		•	•	•
GMKDS 3/	-	•	•	•	•	•
GMKDSP 3/	-	•		•	•	•
SPTA 1/3,5	-	•	•	•	•	•
SPTA 1/5,0	-	•		•	•	•
MKKDS 1,5/	-			-	•	-
MKKDS 1,3/	-	-		-	•	-
MKKDSG 3/	-	-		-	•	-
ZFKKDS 1,5C-5,0	-	-		-	•	_
FK-MPT 0,5/3,5-H	-	•		•	•	•
FK-MPT 0,5/ST-3,5	-	•		•	•	•
PTSA 0,5/2,5-Z	-	•	•	•	•	•
PTSA 0,5/2,5-F	-	•		•	•	•
PTSA 1,5/3,5-Z	-	•	•	•	•	•
PTSA 1,5/3,5-F	-	•		•	•	•
PTS 1,5/5,0-H	-	•	•	•	•	•
PT 1,5/5,0-H	-	•		•	•	•
PT 1,5/PH-5,0	-	•			•	•
PT 2,5/5,0-H	-	•	•	•	•	•
PT 2,5/4-7,5-H	-	•		•	•	•
PTDA 1,5/PH-3,5	-		•	-	•	
PTDA 1,5/PH-5,0	-	-		-	•	-
PT 2,5/PVH-5,0	-	-	•	-	•	-
PST 1,3/LH-5,0	-	-	•	-	•	-
PST 1,3/LH-5,0 PST 1,3/LV-5,0	-	-	•	-	•	-
PST 1,0/3,5	-	•	•	•	•	•
PST 1,3/5,0	-	•	•	•	•	•
VS-08-BU-RJ45	-	-	•	-	•	-

For the 22 mm terminal installation depth, terminal blocks for U11 installation depth can also be used and are therefore listed as well.

Terminal installation depth U11 = 11.1 mm



Terminal installation depth U22 = 22.35 mm



BC 71,6 OT U22	BC 107,6 OT U11	BC 107,6 OT U22	BC 161,6 OT U11	BC 161,6 OT U22	
22.35 mm	11.1 mm	22.35 mm	11.1 mm	22.35 mm	
-	-	-	-	-	
-	-	-	-	•	
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Building installation housings according to DIN EN 43880

BC installation component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

1) For information on power dissipation, see page 770.

2) DIN rail connectors, see page 702.



17.8 mm wide = 1 terminal pitch



35.6 mm wide = 2 terminal pitches

	@ %			@ 91		
	Technical d	ata	Technical o	lata		
Power dissipation P_V at 20°C in horizontal mounting position¹)	BC 17,8 UT HBUS BK			BC 35,6 UT HBUS BK		
Mounted in rows without spacing	2.95 W	-		4.78 W	-	
Type of housing Electronic housings	polycarbonate / V0			polycarbonate / V0		
Connection data	solid stranded	1	U	solid stranded	I	U
	[mm²]	AWG [A]	[V]	[mm²]	AWG [A]	[V]
HBUS		- 3	60	<u> </u>	- 3	60
	Ordering d	ata		Ordering d	ata	1
Description	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Housing base	DO 4T O UT UDUO DI		40	DO OF A UT UDUO DI		40
Housing upper part, with vents, terminal installation depth 11 mm	BC 17,8 UT HBUS BK	2896241	10	BC 35,6 UT HBUS BK	2896254	10
With vents, terminal installation depth 11 mm				BC 35,6 OT U11 KMGY	2896034	10
Housing upper part, with vents, terminal installation depth 22 mm						
				BC 35,6 OT U22 KMGY	2896047	10
Upper part of a housing, for orthogonal PCB terminal block base with a 3.5 or 5 mm pitch						
	BC 17,8 OTU MKDSO KMGY	2279732	10			
Housing cover, firmly locked with the housing upper part, in housing color light gray					ļ	
	BC 17,8 DKL R KMGY	2896144	10	BC 35,6 DKL R KMGY	2896157	10
Housing cover , can be swiveled and sealed, transparent, incl. fitted cover						
	BC 17,8 DKL S TRANS	2896102	10	BC 35,6 DKL S TRANS	2896115	10
	Accessori	es		Accessori	es	
PCB terminal block, left, 3.5 mm pitch, color: light gray						
Left	MKDSO 1,5/ 4-L-3,5 KMGY	2278432	50			
Right	MKDSO 1,5/ 4-R-3,5 KMGY	2278429	50			
PCB terminal block, for soldering into the PCB, pitch 5					ļ	
Left	MKDSO 2,5/ 3-L KMGY	2854102	250		ļ	
Right Cap set, 3-section	MKDSO 2,5/ 3-R KMGY HBUS-B SET BK	2854092 2278173	250 10	HBUS-B SET BK	2278173	10
DIN rail connector, 16-pos. ²)	IIBUS-B SET BR	22/01/3	10	TIBOS-B SET BR	2270173	10
One 18-pos. slot to the PCB				HBUS 35,6-16P-1S BK	2896283	10
Two 18-pos. slots to the PCB	HBUS 35,6-16P-2S BK	2896319	10			
Three 18-pos. slots to the PCB	HBUS 53,6-16P-3S BK	2896322	10		ļ	
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm², 500 mm long						
Socket strip	BL2-2,54/16-ST	2896335	50	BL2-2,54/16-ST	2896335	50
Pin strip Filler plugs, for unoccupied terminal points	SL2-2,54/16-ST ME B-17,5 MKDSO KMGY	2896348 2854115	50 10	SL2-2,54/16-ST BC 17,6 BS U11 KMGY	2896348 2896186	50 50
Cover caps for empty terminal space, 17.6 mm width, for terminal	ME B-17,5 MKDSO KNIGT	2654115	10	BC 17,6 BS U22 KMGY	2896199	50
installation depth 22 mm Cover caps for empty terminal space, 35.6 mm width, for terminal				BC 35,6 BS U11 KMGY	2896209	50
installation depth 11 mm Cover caps for empty terminal space, 35.6 mm width, for terminal				BC 35,6 BS U22 KMGY	2896212	50
installation depth 22 mm				20 30,0 20 022 AWG I	2030212	30
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm						
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm						
COO	-					

Building installation housings according to DIN EN 43880



53.6 mm wide = 3 terminal pitches



71.6 mm wide = 4 terminal pitches



107.6 mm wide = 6 terminal pitches

@ 91			@ 51			@ 51		
Technical da	ta		Technical da	ta		Technical da	nta	
BC 53,6 UT HBUS BK 7.21 W			BC 71,6 UT HBUS BK 11.95 W			BC 107,6 UT HBUS BK 13.08 W		
	I VG [A] - 3	U [V] 60	polycarbonate / V0 solid stranded [mm²] A¹	I WG [A]	U [V] 60	polycarbonate / V0 solid stranded [mm²] A	 	U [V] 60
Ordering dat	а		Ordering date	ta		Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
BC 53,6 UT HBUS BK	2896403	10	BC 71,6 UT HBUS BK	2896267	10	BC 107,6 UT HBUS BK	2896270	10
BC 53,6 OT U11 KMGY	2896416	10	BC 71,6 OT U11 KMGY	2896050	10	BC 107,6 OT U11 KMGY	2896076	10
BC 53,6 OT U22 KMGY	2896429	10	BC 71,6 OT U22 KMGY	2896063	10	BC 107,6 OT U22 KMGY	2896089	10
BC 53,6 DKL R KMGY	2896432	10	BC 71,6 DKL R KMGY	2896160	10	BC 107,6 DKL R KMGY	2896173	10
BC 53,6 DKL S TRANS	2896445	10	BC 71,6 DKL S TRANS	2896128	10	BC 107,6 DKL S TRANS	2896131	10
Accessories	3		Accessories	s		Accessorie	s	
HBUS-B SET BK	2278173	10	HBUS-B SET BK	2278173	10	HBUS-B SET BK	2278173	10
HBUS 53,6-16P-1S BK	2896458	10	HBUS 71,6-16P-1S BK	2896296	10	HBUS 107,6-16P-1S BK	2896306	10
BL2-2,54/16-ST	2896335	50	BL2-2,54/16-ST	2896335	50	BL2-2,54/16-ST	2896335	50
SL2-2,54/16-ST BC 17,6 BS U11 KMGY	2896348 2896186	50 50	SL2-2,54/16-ST BC 17,6 BS U11 KMGY	2896348 2896186	50 50	SL2-2,54/16-ST BC 17,6 BS U11 KMGY	2896348 2896186	50 50
BC 17,6 BS U22 KMGY	2896199	50	BC 17,6 BS U22 KMGY	2896199	50	BC 17,6 BS U22 KMGY	2896199	50
BC 35,6 BS U11 KMGY	2896209	50	BC 35,6 BS U11 KMGY	2896209	50	BC 35,6 BS U11 KMGY	2896209	50
BC 35,6 BS U22 KMGY	2896212	50	BC 35,6 BS U22 KMGY	2896212	50	BC 35,6 BS U22 KMGY	2896212	50
BC 53,6 BS U11 KMGY	2896225	50				BC 53,6 BS U11 KMGY	2896225	50
BC 53,6 BS U22 KMGY	2896238	50				BC 53,6 BS U22 KMGY	2896238	50

Building installation housings according to DIN EN 43880

BC installation component housings

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

1) For information on power dissipation, see page 770.

²) DIN rail connectors see page 702.

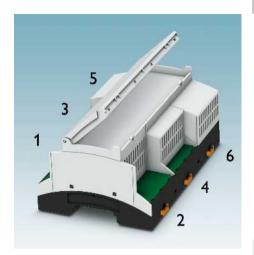


161.6 mm wide = 9 terminal pitches

	@ 71		
	Technical	data	
Power dissipation P _V at 20°C in horizontal mounting position¹)	BC 161,6 UT HBUS BK		
Mounted in rows without spacing	16.95 W	-	
Type of housing			
Electronic housings	polycarbonate / V0		
Connection data	solid stranded [mm²]	AWG [A]	U [V]
HBUS		- 3	60
	Ordering	data	
Description	Туре	Order No.	Pcs. / Pkt.
Housing base	BC 161,6 UT HBUS BK	2278500	10
Upper part of housing With vents, terminal installation depth 11 mm	BC 161,6 OT U11 KMGY	2278513	10
Housing upper part, with vents, terminal installation depth 22 mm			
Housing cover , firmly locked with the housing upper part, in housing color light gray	BC 161,6 OT U22 KMGY	2278526	10
	BC 161,6 DKL R KMGY	2278539	10
Housing cover , can be swiveled and sealed, transparent, incl. fit- ted cover	DO 101 C DIVI C TRANC	2278542	10
	BC 161,6 DKL S TRANS Accesso		10
Cap set, 3-section DIN rail connector for housing width 161.6 mm (9TE), 16-pos., one 18-pos. slot for PCB ²)	HBUS-B SET BK	2278173	10
	HBUS 161,6-16P-1S BK	2278555	10
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm ² , 500 mm long			
Socket strip	BL2-2,54/16-ST	2896335	50
Pin strip	SL2-2,54/16-ST	2896348	50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 11 mm	BC 17,6 BS U11 KMGY	2896186	50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY	2896199	50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm	BC 35,6 BS U11 KMGY	2896209	50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY	2896212	50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm	BC 53,6 BS U11 KMGY	2896225	50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	BC 53,6 BS U22 KMGY	2896238	50

Building installation housings according to DIN EN 43880

BC modular



The BC 161,6 modular extends the BC housing range with a modular upper part which is a perfect match for the proven BC 161,6 housing bases.

An innovative tool concept makes it possible to design both the PCB assembly area as well as the installation space for the PCB connection technology in line with the application.

Customers can choose from 3 different side panel arrangements per segment:

- Side panel in the outermost position, i.e., flush with the outer edge of the housing base: maximum PCB assembly area inside the housing for a variety of different components
- Side panel in the innermost position: maximum installation space for connection technology = 22 mm, e.g., for doublelevel terminal blocks or RJ45
- Middle side panel position: installation space for connection technology = 11 mm, i.e., space both for the connection technology and inside the housing

Please tell us how you would like the product to be configured.

1) For information on power dissipation, see page 770. 2) DIN rail connectors see page 702.



Modular upper part for customer-specific configuration 161.6 mm wide = 9 pitches

	Technical da	ıta	
Power dissipation P _V at 20°C in horizontal mounting position¹)	BC 161,6 OT 000020 KMGY		
Mounted in rows without spacing	16.95 W	-	
Type of housing			
Electronic housings	polycarbonate / V0		
Connection data	solid stranded	1	U
	[mm ²] A	WG [A]	[V]
HBUS		- 3	60
	Ordering da	ta	
Description	Tuno	Order No.	Pcs./
Description	Туре	Order No.	Pkt.
Housing base			
	BC 161,6 UT HBUS BK	2278500	10
Housing upper part with vents, 1 x terminal installation depth of 22 mm at pos. 5, pos. 1 - 4, and pos. 6 clamping space closed			
	BC 161,6 OT 000020 KMGY	2201450	10
Housing upper part with vents, 1 x terminal installation depth 22 mm at pos. 3, pos. 1+2, and pos. 4-6 clamping space closed			
	BC 161,6 OT 002000 KMGY	2201451	10
Housing upper part with vents, 2 x terminal installation depth 22 mm at pos. 5+6, pos. 1-4 clamping space closed			
	BC 161,6 OT 000022 KMGY	2201454	10
Housing cover, firmly locked with the housing upper part, in housing color light gray			
	BC 161,6 DKL R KMGY	2278539	10
$\label{eq:housing cover} \textbf{Housing cover}, \text{can be swiveled and sealed, transparent, incl. fitted cover}$			
	BC 161,6 DKL S TRANS	2278542	10
	Accessorie	s	
Cap set, 3-section	HBUS-B SET BK	2278173	10
DIN rail connector for housing width 161.6 mm (9TE), 16-pos., one 18-pos. slot for PCB ²)			
	HBUS 161,6-16P-1S BK	2278555	10
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm², 500 mm long			
Socket strip	BL2-2,54/16-ST	2896335	50
Pin strip	SL2-2,54/16-ST	2896348	50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	BC 17,6 BS U22 KMGY	2896199	50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	BC 35,6 BS U22 KMGY	2896212	50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	BC 53,6 BS U22 KMGY	2896238	50

installation depth 22 mm

Building installation housings according to DIN EN 43880

HBUS DIN rail connectors



Automatic contacting between devices

- For parallel and serial data transmission and power supply
- 16-pos. in DIN rail, 18-pos. in device
- Gold-plated contacts
- Housing width 17.8 mm suitable for connectors with 2 or 3 slots
- One connector per housing is required for housing widths in excess of 35.6 mm
- Cover caps for protection
- Pin or socket strip (SL or BL) for supply incl. 50 cm cable ends

1) DIN rail connectors see page 702.



c**91**0s

	Ordering data		
Description	Туре	Order No.	Pcs. / Pkt.
DIN rail connector for housing width 17.8 mm (1TE)			
Two 18-pos. slots to the PCB Three 18-pos. slots to the PCB	HBUS 35,6-16P-2S BK HBUS 53,6-16P-3S BK	2896319 2896322	10 10
DIN rail connector, 16-pos.¹) One 18-pos. slot to the PCB	HBUS 35,6-16P-1S BK	2896283	10
DIN rail connector, 16-pos., for housing width 53.6 mm (3TE)	·		
	HBUS 53,6-16P-1S BK	2896458	10
DIN rail connector for housing width 71.6 mm (4TE), 16-pos., one 18-pos. slot for PCB			
	HBUS 71,6-16P-1S BK	2896296	10
DIN rail connector for housing width 107.6 mm (6TE), 16-pos., one 18-pos. slot for PCB			
	HBUS 107,6-16P-1S BK	2896306	10
DIN rail connector for housing width 161.6 mm (9TE), 16-pos., one 18-pos. slot for PCB¹)			
	HBUS 161,6-16P-1S BK	2278555	10
	Accessories	;	
Power plug for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm², 500 mm long			
Socket strip	BL2-2,54/16-ST	2896335	50
Pin strip	SL2-2,54/16-ST	2896348	50
Cap set, 3-section	HBUS-B SET BK	2278173	10

Building installation housings according to DIN EN 43880

Basic housings for universal use

Housing bases



The EMG, EG, and UEG housing ranges are the ideal solution for cost-effective housing production. Cost-effectiveness and functionality are combined with simple PCB geometries, carefully thought-out overall width scaling, and some versions with integrated connection technology.

Basic housings for universal use



EMG housing range

Your advantages at a glance:

- Fine type scaling for broad diversity of overall widths
- Various cover versions
- Flat design
- For solid 2.5 mm² MKDS 3 screw connections with 5 mm pitch



EG housing range

Your advantages at a glance:

- Robust housing type
- Receptacle housing
- A variety of cover designs
- Two material versions, ABS and PC
- Optional with test opening



UEG housing range

Your advantages at a glance:

- Flat half-shell design
- Base element with integrated connection technology, double-level design
- Optional PCBs for small series



UEGM housing range

Your advantages at a glance:

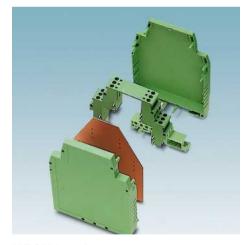
- Half-shell design
- Base element with integrated connection technology, single-level design
- Large PCB surface
- Optional PCBs for small series



UEGM-MSTB housings

Your advantages at a glance:

- Half-shell design
- Base element with integrated 12-pos. pin
- Can be additionally equipped with 3 mm LED light indicator
- Large PCB surface



UEGH housing range

Your advantages at a glance:

- Tall half-shell design
- Base element with integrated connection technology, double-level design
- Optional PCBs for small series
- Versions offering space for PCBs fitted with SMDs on both sides

Basic housings for universal use

EMG system component housing

EMG is a complete range of component housing for the cost-effective design of industrial electronics to suit control cabinet requirements. Both small interface circuits and complete control units can be installed in this housing.

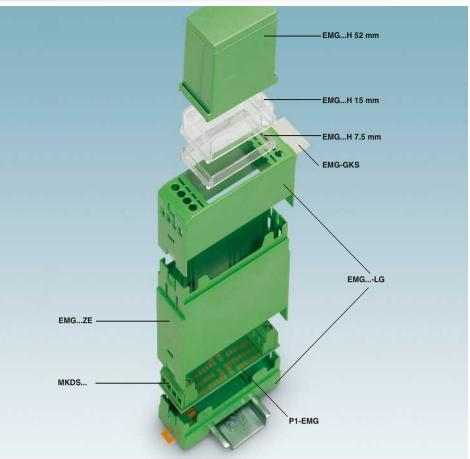


Features of EMG housing:

- Uniform and appropriate housing tech-
- Space-saving accommodation of electronic components in finely graded module versions available with 10 to 150 mm pitch
- Practical and easy-to-wire conductor connections
- Inflammability class V0 insulation material (according to UL 94)
- High degree of flexibility due to the wide choice of versions
- User-friendly and safe mounting on DIN rails according to EN 60715
- Shock and contamination-proof accommodation of electronic components
- Choice of four cover sizes in transparent or color versions
- Universal PCBs for all pitches

Construction principle

The top right image shows the principle of EMG construction: the assembled PCB is inserted into the upper part of the housing and then reliably latched into the housing base.



Accommodating electronic compo-

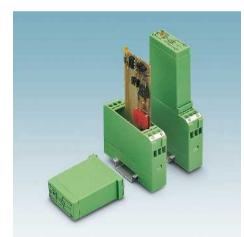
The fine grading of types enables optimum adaptation of the housing to the required PCB area and the required number of connection positions. The PCB is rectangular.

The special feature of this range is that all electronic components and PCB terminal blocks can be mounted to suit production requirements and machine-soldered in a single step.

To create narrow modules that also have comprehensive electronic components, one or more additional PCBs can be mounted perpendicular to the main PCB.

Details of PCB layout, dimensions, connection points, and assembly areas can be found in the Download Center at

www.phoenixcontact.net/products.



Basic housings for universal use



Four cover heights

The transparent or opaque green covers are supplied to protect the internal electronic components against shock and contamination. The cover is simply snapped on and can be removed again at any time.

The front has openings for the installation of indication or actuation elements and the surface can be printed with a circuit diagram. The covers can be supplied with cutouts or printing on the front.

Special coding adaptation ensures that the covers can only be mounted to match the circuit.

You can choose between four cover heights allowing optimum adaptation of the module height to the space requirements of the electronic components. The 7.5 mm, 15 mm, and 35 mm high covers are transparent, whereas the 52 mm high cover is opaque green. The high covers have guide slots to accommodate the perpendicular secondary PCB(s).

EMG housing with a design width of 17 mm, 25 mm, and 75 mm is also available as an enclosed version (EMG...-LG/G) on request.



Conductor connections

Standard EMG...LG versions are designed for sturdy 2.5 mm² screw connections on both sides in the form of MKDS 3 PCB terminal blocks with 5 mm pitch. The terminal points that are not used can be sealed with EMG-KA terminal blocks/screw

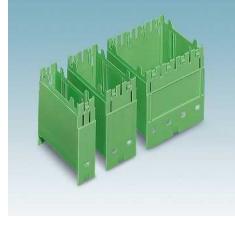
The following versions of EMG housing are also available:

- EMG...LG 7,5 for PCB terminal blocks with 7.5 mm pitch.
- EMG...LG/O, with open clamping space for free assembly, can be fitted with 2.8 x 0.8 mm spade connections or with PCB terminal block or COMBICON connections with vertical plug-in direction (MSTBV 2,5/...-G).
- EMG...LG/MSTB for lateral COMBICON connection (plug-in direction parallel to the PCB).



Intermediate elements

EMG...ZE intermediate elements are available for pitches of 25, 45, and 90 mm. These elements increase the assembly space perpendicular to the DIN rail significantly. The various PCB guides ensure optimum accommodation of your electronic components.





Basic housings for universal use

EMG system component housing

Delivery forms

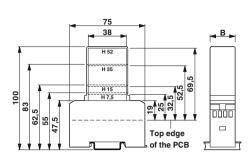
This component housing range can be divided into three delivery groups:

- Housings with order no. EMG...LG consist of an upper and a lower part.
- Articles ending in SET are supplied as upper and lower housing parts in the standard version, including the relevant PCB terminal blocks.
- Ready-mounted custom circuit modules with PCB and solder tags, which are fitted on MKDS 3/... connection terminal blocks, are available as EMG...B.... These custom circuit modules are the answer if you want to make a professional job of integrating components such as damping diodes, varistors or capacitors in the control cabinet.

Mounting:

All housings are aligned in rows on the symmetrical DIN rail in accordance with EN 60715 by simply snap locking them into place. They are removed by pulling back the base latch. Modules of up to a design width of 22.5 mm are also supplied with a universal foot, thus making them suitable for all DIN rails commonly available in the market.

Notes:	
Torque of terminal block screws see page 854.	
Marking systems and mounting materials: see Catalog 5.	
1) For information on power dissipation, see page 770.	





4-pos., width: 10 mm

Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing

B= Width

Electronic housings Green cover Transparent cover Stripping length Connection data

Technical data						
H 7,5	H 15	H 35	H 52			
0.9 W	1 W	-	1.5 W			
1.2 W	1.4 W		2.2 W			

solid	stranded		1	U
[m	nm²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	-	-

				Order	ing data	
Description	Grid [mm]	No. of pos.	Width [mm]	Туре	Order No.	Pcs. / Pkt.
Electronic housing, for PCB terminal blocks and cover, with			connection			
With open terminal space	5 5 5 5 7.5	4 4 6 6 4	10 12.5 15 17.5 17.5	EMG 10-LG	2947747	10
Electronic housing set, consprinted circuit termination bloc		etronic hou 4 4 6 6	10 12.5 15 17.5	EMG 10-LG/SET	2942959	10
Custom circuit module, con: Connecting terminal blocks Mi solder tags, for soldering in ele	KDS 3 and pr	rinted circu	iit board with			
	5			EMG 10-B2	2947750	10
				A		

Covering hood , for the contact and dust-protected encapsulation of the components	on	
Height 7.5 mm, transparent		EMG 1
Height 15 mm, transparent		EMG 1
Height 35 mm, transparent		
Height 52 mm, green		EMG 1
PCB, for assembling electronic components		P 1-EN
Printed circuit termination block, pitch 5 or 5.08, for soldering onto the printed circuit board	ı	
2		MKDS
3		
Printed circuit termination block , pitch 7.5, for soldering into the printed circuit board	he	
2		
Terminal block/screw cover, set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	or	EMG-K
Equipment marker		
	10	EMG-S
	12	

EMG 10-B2	2947750	10
Accessories	;	
EMG 10-H 7,5MM KLAR EMG 10-H 15MM KLAR	2947763 2947776	10 10
EMG 10-H 52MM GN	2947789	10
P 1-EMG 10	2947792	10
MKDS 3/ 2-EMG 10	1712342	50
EMG-KA	2941510	50
EMG-SGKS 10	2947585	50



4-pos., width: 12.5 mm



6-pos., width: 15 mm



4-pos., 7.5 mm pitch, 6-pos., 5 mm pitch, width: 17.5 mm

Technical data						
H 7,5	H 15	H 35	H 52			
1.2 W 1.3 W	1.3 W 1.5 W	-	2 W 2.6 W			

Polycarbonate fiber reinforced / V0 Polycarbonate fiber reinforced PC-F / V0

Polycarbonate, PC / V2 8 mm

Ordering data						
0.2 - 4	0.2 - 2.5	24 - 12	-	-		
[r	nm²]	AWG	[A]	[V]		
solid	stranded		- 1	U		

Technical data							
H 7,5	H 15	H 35	H 52				
1.2 W	1.4 W	-	2 W				
1.3 W	1.5 W	-	2.7 W				

Polycarbonate fiber reinforced / V0 Polycarbonate fiber reinforced PC-F / V0 Polycarbonate, PC / V2

8 mm				
solid	stranded		- 1	U
	[mm ²]	AWG	[A]	[V]
02-4	02-25	24 - 12	-	-

Ordering data

Technical data						
H 7,5	H 15	H 35	H 52			
1.3 W	1.5 W	2.1 W	2.7 W			
1.4 W	1.6 W	2.7 W	4 W			

Polycarbonate fiber reinforced / V0 Polycarbonate fiber reinforced PC-F / V0 Polycarbonate, PC / V2 8 mm

solid stranded [mm²] AWG [A] [V] 0.2 - 4 0.2 - 2.5 24 - 12 Ordering data

Ordering dat	а		Ordering dat	а		Ordering data		
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
EMG 12-LG	2907910	10	EMG 15-LG	2908508	10	EMG 17-LG EMG 17-LG-7,5 EMG 17-LG/O	2946078 2944106 2942409	10 10 10
EMG 12-LG/SET	2942962	10	EMG 15-LG/SET	2942975	10	EMG 17-LG/SET	2942988	10
EMG 12-B2 Accessories	2948306	10	EMG 15-B3 Accessories	2947815	10	EMG 17-B3 Accessories	2946081	10
EMG 12-H 7,5MM KLAR EMG 12-H 15MM KLAR EMG 12-H 52MM GN P 1-EMG 12	2947116 2948296 2947129 2947187	10 10 10 5	EMG 15-H 7,5MM KLAR EMG 15-H 15MM KLAR EMG 15-H 52MM GN P 1-EMG 15	2947828 2947831 2947844 2947857	10 10 10 20	EMG 17-H 7,5MM KLAR EMG 17-H 15MM KLAR EMG 17-H 35MM KLAR EMG 17-H 52MM GN P 1-EMG 17	2946094 2946104 2942221 2946117 2946120	10 10 10 10 5
MKDS 3/ 2	1711026	100	MKDS 3/ 3-EMG 15	1712698	50	MKDS 3/3	1711039	100
EMG-KA	2941510	50	GMKDS 3/ 2-EMG15 EMG-KA	1731462 2941510	50 50	GMKDS 3/ 2 EMG-KA	1731022 2941510	100 50
EMG-GKS 12	2947035	50	EMG-GKS 12	2947035	50	EMG-SGKS 10 EMG-GKS 12	2947585 2947035	50 50

Basic housings for universal use

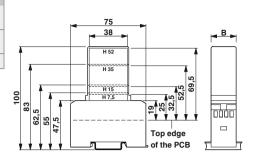
EMG system component housing

Notes:

Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting materials: see Catalog 5.

1) For information on power dissipation, see page 770.





8-pos., width: 22.5 mm

B= Width

Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings
Green cover
Transparent cover
Stripping length
Connection data
Connection data

Technical data							
H 7,5	H 15	H 35	H 52				
1.4 W 1.6 W	1.6 W 1.8 W	2.3 W 2.9 W	3 W 4.1 W				

solid	stranded		1	U	
[n	nm²]	AWG	[A]	[V]	
0.2 - 4	0.2 - 2.5	24 - 12	-	-	

				Ordering of	lata	
Description	Grid [mm]	No. of pos.	Width [mm]	Туре	Order No.	Pcs./ Pkt.
Electronic housing, for PCB in terminal blocks and cover	nsertion, wi	thout screv	v connection			
With universal foot With snap foot for DIN rail EN 60715	5 5	8 8	22.5 25	EMG 22-LG	2946133	10
	5 5	10 14	30 37.5			
Electronic housing set, consi		ctronic hou	sings and			
printed directit termination block	5 5 5 5	8 8 10 14	22.5 25 30 37.5	EMG 22-LG/SET	2942991	10
Custom circuit module, consi connecting terminal blocks MKI solder tags, for soldering in elec-	DS 3 and p	rinted circu	it board with			
	5			EMG 22-B4	2946146	10
				Accessor	ies	
Covering hood, for the contact of the components	t and dust-	protected e	ncapsulation			
Height 7.5 mm, transparent				EMG 22-H 7,5MM KLAR	2946159	10
Height 15 mm, transparent				EMG 22-H 15MM KLAR	2946162	10
Height 35 mm, transparent Height 52 mm, green				EMG 22-H 35MM KLAR EMG 22-H 52MM GN	2942771 2946175	10 10
PCB, for assembling electronic	componen	ts		P 1-EMG 22	2946188	5
5.0 mm pitch, color: green						
		2		MKDS 3/ 2	1711026	100
		3		MKDS 3/3	1711039	100
Terminal block/screw cover,	set consis	4 ting of 50 s	trips each for	MKDS 3/ 4 EMG-KA	1711042 2941510	50 50
terminal blocks and screw oper						
terminal points					1	
Intermediate element, to enla	rge the ass	embly spac	ce			
	rge the ass	embly spac		Eug ooyo to		
Intermediate element, to enla	rge the ass	embly spac	10 12	EMG-SGKS 10 EMG-GKS 12	2947585 2947035	50 50

Basic housings for universal use





MKDS 3/3

MKDS 3/4

EMG 25-ZE

EMG-SGKS 10

EMG-GKS 12

EMG-GKS 22

EMG-KA

1711039

1711042

2941510

2941808

2947585

2947035

2941594

100

50

50

50

50

50

MKDS 3/3

MKDS 3/4

EMG-SGKS 10

EMG-GKS 12

EMG-GKS 22

EMG-KA



10-pos., width: 30 mm



14-pos., width: 37.5 mm

	Techni	ical dat	ta			Techn	ical data	a			Techn	ical data	а	
H 7,5	H 15	H 35	H 52		H 7,5	H 15	H 35	H 52		H 7,5	H 15	H 35	H 52	
1.4 W 1.6 W	1.6 W 1.8 W		3.2 W 4.5 W		1.5 W 1.7 W	1.7 W 1.9 W	-	3.6 W 4.9 W		1.6 W 1.8 W	1.9 W 2.1 W	2.6 W 3.5 W	4 W 5.4 W	1
Polycarbona Polycarbona Polycarbona 8 mm	ate, PC / V2	V0			Polycarbona Polycarbona 8 mm	·				Polycarbona Polycarbona 8 mm				
solid 0.2 - 4	stranded [mm²] 0.2 - 2.5		VG [A] - 12 -	U [V]	solid 0.2 - 4	stranded [mm²] 0.2 - 2.5	AW 24 -		U [V]	solid 0.2 - 4	stranded [mm²] 0.2 - 2.5	AW 24 -		U [V] -
-		ing dat	a				ring data	1				ing data	1	
Туре			Order No.	Pcs. / Pkt.	Туре			Order No.	Pcs. / Pkt.	Туре			Order No.	Pcs. / Pkt.
EMG 25-LG	à		2948319	5	EMG 30-LG			2947860	5	EMG 37-LG	ı		2947051	5
EMG 25-LG	G/SET		2943000	10	EMG 30-LG	/SET		2940016	5	EMG 37-LG	s/SET		2940029	10
EMG 25-B4	1		2948335	10	EMG 30-B5			2947873	10	EMG 37-B7	,		2947064	5
LING 25-D4		ssories		10	EMIC 30-B3		essories	2347073	10	LINIG 01-B1		essories	2347004	
EMG 25-H 1	7,5MM KLAR 15MM KLAR		2947132 2948322	5 5	EMG 30-H 1	7,5MM KLAR I5MM KLAR		2947886 2947899	5 5	EMG 37-H	7,5MM KLAR 15MM KLAR 35MM KLAR		2947158 2947161 2942768	5 5 5
EMG 25-H 5 P 1-EMG 25			2947145 2947190	5 20	EMG 30-H 5 P 1-EMG 30			2947909 2947912	5 10	EMG 37-H 9			2947174 2947077	5 5
MKDS 3/2			1711026	100	MKDS 3/ 2			1711026	100	MKDS 3/ 2			1711026	100

100

50

50

50

50

1711039

1711042

2941510

2947585

2947035

2941594

1711039

1711042

2941510

2947585

2947035

2941594

100

50

50

50

50

50

MKDS 3/3

MKDS 3/4

EMG-KA

EMG-SGKS 10

EMG-GKS 12

EMG-GKS 22

Basic housings for universal use

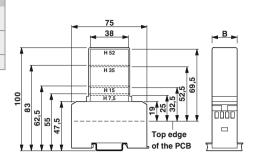
EMG system component housing

Notes:

Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting materials: see Catalog 5.

1) For information on power dissipation, see page 770.





16-pos., width: 45 mm

B= Width

Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings
Green cover
Transparent cover
Stripping length
Connection data

Technical data							
H 7,5	H 15	H 35	H 52				
2 W 2.4 W	2.5 W 2.9 W		4.6 W 5.7 W				

solid	stranded		- 1	U	
[m	nm²]	AWG	[A]	[V]	
0.2 - 4	0.2 - 2.5	24 - 12	-	-	

				0.2 - 4	0.2 - 2.5 24	- 12 -	-
					Ordering da	ta	
Description	Grid [mm]	No. of pos.	Width [mm]	Туре		Order No.	Pcs. / Pkt.
Electronic housing, for PCE terminal blocks and cover	3 insertion, wi	thout screv	v connection				
terriiriai biocks and cover							
	5.08	16	45	EMG 45-LG		2946191	5
	5	18	50				
	5	28	75				
	5	34	90				
Electronic housing, for PCE terminal blocks and cover	3 insertion, wi	thout screv	v connection				
With open terminal space			45	EMG 45-LG/O		2942315	5
			50				
			75				
			90				
Electronic housing set, corprinted circuit termination blo		ctronic hou	sings and				
printed en eart terrimidateri bre	5.08	16	45	EMG 45-LG/SET		2940032	5
	5	18	50				
	5	28	75				
	5	34	90				
Custom circuit module, cor Connecting terminal blocks N	ИKDS 3 and р	rinted circu	uit board with				
solder tags, for soldering in e	lectronic com	ponents					
	5.08			EMG 45-B8		2946201	5
					Accessorie	s	
Covering hood, for the conta	act and dust-	orotected e	ncapsulation				
of the components							
Height 7.5 mm, transparent				EMG 45-H 7,5MM K		2946214	5
Height 15 mm, transparent				EMG 45-H 15MM KL		2946227	5
Height 35 mm, transparent				EMG 45-H 35MM KI		2942140	5
Height 52 mm, green				EMG 45-H 52MM GI	N	2946230	5
PCB, for assembling electron	nic componen	ts		P 1-EMG 45		2946243	5

5.08	EWIG 43-D0	2946201	5
	Accessories	}	
Covering hood, for the contact and dust-protected encapsulation of the components Height 7.5 mm, transparent Height 15 mm, transparent Height 35 mm, transparent Height 52 mm, green PCB, for assembling electronic components	EMG 45-H 7,5MM KLAR	2946214	5
	EMG 45-H 15MM KLAR	2946227	5
	EMG 45-H 35MM KLAR	2942140	5
	EMG 45-H 52MM GN	2946230	5
	P 1-EMG 45	2946243	5
5.08 mm pitch, color: green 2 3 4 Intermediate element, to enlarge the assembly space	MKDS 3/ 2-5,08	1711725	100
	MKDS 3/ 3-5,08	1711738	100
	MKDS 3/ 4-5,08	1712805	50
	EMG 45-ZE	2941811	5
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	EMG-KA	2941510	50
Equipment marker 12 22 22	EMG-GKS 12	2947035	50
	EMG-GKS 22	2941594	50

Basic housings for universal use



18-pos., width: 50 mm



28-pos., width: 75 mm



34-pos., width: 90 mm

Technical data						
H 7,5	H 15	H 35	H 52			
2.3 W 2.6 W	2.8 W 3.4 W	-	4.7 W 6 W			

Polycarbonate fiber reinforced / V0
Polycarbonate fiber reinforced PC-F / V0
Polycarbonate, PC / V2
8 mm

solid	stranded		- 1	U
[m	m ²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	-	-

Technical data						
H 7,5	H 15	H 35	H 52			
3.3 W	3.8 W	-	4.9 W			

Polycarbonate fiber reinforced / V0
Polycarbonate fiber reinforced PC-F / V0
Polycarbonate, PC / V2
8 mm

solid	stranded		- 1	U
	[mm ²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	-	-

Technical data						
H 7,5	H 15	H 35	H 52			
4.1 W	5 W	-	6.1 W			
4.6 W	5.7 W	-	7.1 W			

solid	stranded		- 1	U
[m	nm²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	-	-

Ordering data			Ordering data			Ordering data		
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
EMG 50-LG	2947242	5	EMG 75-LG	2947378	5	EMG 90-LG	2946256	5
EMG 50-LG/O	2940870	5	EMG 75-LG/O	2941879	5	EMG 90-LG/O	2941581	5
EMG 50-LG/SET	2940045	5	EMG 75-LG/SET	2940058	10	EMG 90-LG/SET	2907884	5
EMG 50-B9	2947268	5	EMG 75-B14	2947381	2	EMG 90-B17 Accessories	2946269	5
EMG 50-H 7,5MM KLAR EMG 50-H 15MM KLAR	2947925 2947938	5 5	EMG 75-H 7,5MM KLAR EMG 75-H 15MM KLAR	2947954 2947967	5 5	EMG 90-H 7,5MM KLAR EMG 90-H 15MM KLAR	2945396 2945406	5 5
EMG 50-H 52MM GN	2947941	5	EMG 75-H 52MM GN	2947970	5	EMG 90-H 52MM GN	2944300	5
P 1-EMG 50	2947255	5	P 1-EMG 75	2947394	5	P 1-EMG 90	2946272	1
MKDS 3/ 2 MKDS 3/ 3 MKDS 3/ 4	1711026 1711039 1711042	100 100 50	MKDS 3/ 2 MKDS 3/ 3 MKDS 3/ 4	1711026 1711039 1711042	100 100 50	MKDS 3/ 2 MKDS 3/ 3 MKDS 3/ 4 EMG 90-ZE	1711026 1711039 1711042 2941824	100 100 50 5
EMG-KA	2941510	50	EMG-KA	2941510	50	EMG-KA	2941510	50
EMG-GKS 12 EMG-GKS 22	2947035 2941594	50 50	EMG-GKS 12 EMG-GKS 22	2947035 2941594	50 50	EMG-GKS 12 EMG-GKS 22	2947035 2941594	50 50

Basic housings for universal use

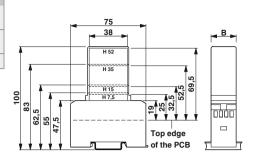
EMG system component housing

Notes:

Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting materials: see Catalog 5.

1) For information on power dissipation, see page 770.





38-pos., width: 100 mm

B= Width

Power dissipation P_V at 20°C in horizontal mounting position¹)	
Mounted in rows without spacing Mounted in rows with min. 20 mm spacing	
Type of housing	
Electronic housings	
Green cover	
Transparent cover	
Stripping length	
Connection data	

Technical data				
H 7,5	H 15	H 35	H 52	
6.9 W 7.8 W	8 W 8.4 W	-	8.9 W 9.8 W	

solid	stranded		- 1	U	
[m	nm²]	AWG	[A]	[V]	
0.2 - 4	0.2 - 2.5	24 - 12	-	-	

				0.2 - 4	m²j 0.2 - 2.5	24 -		[V] -
					Orderin	a date	2	
					Orderiii	y uau	a	1
Description	Grid [mm]	No. of pos.	Width [mm]	Туре			Order No.	Pcs. / Pkt.
Electronic housing, for PCB i terminal blocks and cover	nsertion, wi	thout screv	v connection					
	5 5 5	38 48 58	100 125 150	EMG100-LG			2947080	5
Electronic housing, for PCB i terminal blocks and cover	nsertion, wi	thout screv	v connection					
With open terminal space			100 150	EMG100-LG/O			2907567	5
Electronic housing, for PCB i terminal blocks and cover	nsertion, wi	thout screv						
With lateral opening for con- nector			100	EMG100-LG/M	STB		2907570	5
			125 150					
Electronic housing set, cons printed circuit termination block		ctronic hou						
	5	38	100	EMG100-LG/SI	ET		2906283	5
Custom circuit module, cons Connecting terminal blocks Mk solder tags, for soldering in ele	(DS 3 and p	rinted circu	uit board with					
	5			EMG100-B19			2947093	2
					Access	ories	}	
Covering hood, for the contact of the components	t and dust-p	protected e	encapsulation					
Height 7.5 mm, transparent				EMG100-H 7,5			2944193	5
Height 15 mm, transparent				EMG100-H 15N			2943152	5
Height 35 mm, transparent Height 52 mm, green				EMG100-H 35N EMG100-H 52N			2942218 2944724	5 5
PCB, for assembling electronic	componen	ts		P 1-EMG100	nivi GIN		2944724	5
, .o. accombing clothorne								J

5	EMG100-B19	2947093	2
	Accessories	}	
Covering hood, for the contact and dust-protected encapsulation of the components			_
Height 7.5 mm, transparent	EMG100-H 7,5MM KLAR	2944193	5
Height 15 mm, transparent	EMG100-H 15MM KLAR	2943152	5
Height 35 mm, transparent	EMG100-H 35MM KLAR	2942218	5
Height 52 mm, green	EMG100-H 52MM GN	2944724	5
PCB, for assembling electronic components	P 1-EMG100	2947103	5
5.0 mm pitch, color: green			
2	MKDS 3/2	1711026	100
3	MKDS 3/3	1711039	100
4	MKDS 3/4	1711042	50
Terminal block/screw cover , set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	EMG-KA	2941510	50
Equipment marker			
12	EMG-GKS 12	2947035	50
22	EMG-GKS 22	2941594	50



48-pos., width: 125 mm



58-pos., width: 150 mm

Technical data						
H 7,5	H 15	H 35	H 52			
9.5 W 11 W	10.6 W 12.4 W	-	11.6 W 13 W			

Polycarbonate fiber reinforced / V0 Polycarbonate fiber reinforced PC-F / V0 Polycarbonate, PC / V2

4 4 15 4	- 4
8 mm	

solid	stranded		- 1	U	
[mm ²]	AWG	[A]	[V]	
0.2 - 4	0.2 - 2.5	24 - 12	-	-	

Technical data				
H 7,5	H 15	H 35	H 52	
12.3 W	13.1 W	-	13.6 W	
13.1 W	13.8 W	-	14.9 W	

solid	stranded		- 1	U
	[mm ²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	-	-

	AWG [A] 24 - 12 -	-		- 12 -	-	
Ordering data			Ordering dat	Ordering data		
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	
EMG125-LG	2947983	2	EMG150-LG	2946023	2	
			EMG150-LG/O	2906571	2	
EMG125-LG/MSTB	2943288	2				
		_	EMG150-LG/MSTB	2907596	2	
EMG125-B24	2947996	2	EMG150-B29	2946036	2	
Accessories			Accessories			
EMG125-H 7,5MM KLAR	2943194	5	EMG150-H 7,5MM KLAR	2943178	5	
EMG125-H 15MM KLAR	2943181	5	EMG150-H 15MM KLAR	2943165	5	
EMG125-H 52MM GN	2943518	5	EMG150-H 52MM GN	2943521	5	
P 1-EMG125	2946010	5	P 1-EMG150	2946049	5	
MKDS 3/2	1711026	100	MKDS 3/ 2	1711026	100	
MKDS 3/ 3 MKDS 3/ 4	1711039 1711042	100 50	MKDS 3/ 3 MKDS 3/ 4	1711039 1711042	100 50	
EMG-KA	2941510	50	EMG-KA	2941510	50	
EMG-GKS 12	2947035	50	EMG-GKS 12	2947035	50	
EMG-GKS 22	2941594	50	EMG-GKS 22	2941594	50	

Basic housings for universal use



EG beaker-type component housing

EG component housing is a range of industrial design housing in which a large number of professional industrial electronic components can be accommodated. This housing series includes a whole range of special functional features that support the production of series devices as well as practical applications in the control cabinet.

Key features:

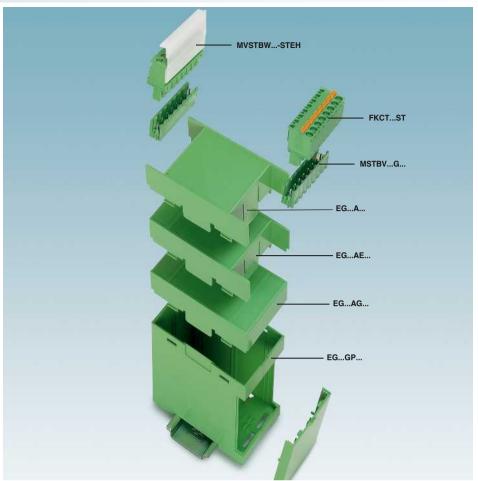
- Tool-free mounting
- Functional and industry-oriented housing
- Optimum accommodation of electronic components with graded pitches with a design width of 22.5 mm, 45 mm, 67.5 mm, and 90 mm
- Practical and easy-to-wire conductor connection using extra finely stranded sturdy screw terminal blocks up to 2.5 mm²
- Shock and contamination-proof accommodation of electronic components (IP40 housing, IP20 terminal blocks)
- Fast snap-on mounting on symmetrical DIN rails according to EN 60715
- Date of manufacture and material and part identification embossed on housing (recyclability)

Materials

In the case of EG... electronics housing, you can choose between the standard EG...ABS version and the EG...PC version. The ABS version is suitable for maximum operating temperatures of up to 80°C.

The EG...PC version offers the following features:

- Inflammability class V0 according to UL 94
- Can be used up to a maximum operating temperature of 115°C
- Integrated metal foot catch, which ensures a firm hold on the DIN rail even at high ambient temperatures



Construction principle

The exploded view shows the construction principle of the housing. The base accommodates horizontally or vertically assembled PCBs including the connection elements. The cover is snapped onto the base securely and reliably.

Mounting

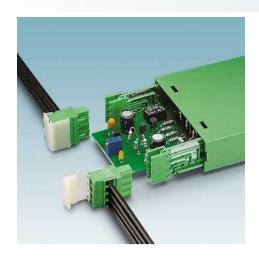
EG beaker-type component housing is aligned by snapping it onto symmetrical DIN rails according to EN 60715. It is removed by drawing back the foot element.

Accommodating electronic components

According to requirements, EG component housing can be combined with different types of individual housing elements. The housing bases are available with or without a test opening on the front. Housing with a test opening offers the option of tuning or readjusting pre-assembled devices during function testing or operation, e.g., by means of internal potentiometers or jump-

A number of PCB guides in the housing provide flexibility for accommodating complex electronic components.

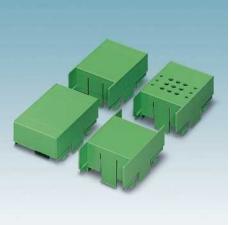
Basic housings for universal use



The PCBs installed in EG component housing are rectangular.

Details of PCB dimensions and assembly areas, as well as their position in the housing can be found in the **Download Center at** www.phoenixcontact.net/products.

COMBICON headers with right-angled pin strip enable device designs with just one vertically inserted PCB with optimum use of space.



Covers

The covers, which are snapped onto the housing base, are either closed or have connection options on one or both sides. In addition, holes can be made in the front, e.g., for LEDs, potentiometer axes, etc. For this application, the cover offers the option of inserting a PCB underneath the holes.

Conductor connections

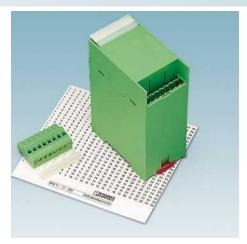
The connection elements fit the housing design perfectly and are available in the following versions:

- Sturdy 2.5 mm² screw connections in the form of the MKKDSH 3 PCB terminal block with 5 mm pitch
- Practical plug-in screw connection using COMBICON

The COMBICON connections are available in the following versions:

- COMBICON headers for use on horizontal or vertical PCBs
- COMBICON plugs with or without a hinged release aid

The connection elements can always be assembled together with the electronic components on the PCB and soldered together.



Marking

The connection terminal blocks are marked on the marking areas provided using standard and individually printed SK 5 marker strips. With larger orders, direct printing on the housing is also possible.

Basic housings for universal use

EG beaker-type component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

Notes:

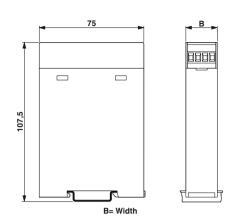
Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting materials: see Catalog 5.

COMBICON plug connectors may only be activated under no load conditions. If for operating reasons small loads must be switched, empirical values are available upon request.

1) For information on power dissipation, see page 770.

2) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.





8-pos., width: 22.5 mm



Type

Power dissipation P _V at 20°C in horizontal mou	nting position1)
Mounted in rows without spacing	
Mounted in rows with min. 20 mm spacing	
Type of housing	
Electronic housings	
Connection data	
MKKDS MSTBV	

Grid

[mm]

Description

8-pos.

Housing base, with snap-on foot

No. of

pos.

Width [mm]

Technical data						
EG 22,5- G/ABS GN						
1.7 W	-	-	-			
2.7 W	-	-	-			
Acryl butadien	e styrene (ABS) /	НВ				
solid	stranded		1	U		
[mm ²]		AWG	[A]	[V]		
0.2 - 4	0.2 - 2.5	24 - 12	242)	250		
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250		
02-25	02-25	24 - 12	12	250		

Ordering data

Order No.

Pkt.

Housing base, with snap-on foot	EG 22,5-G/ABS GN	2764043	10	
Housing base, with snap-on foot and test opening with side cover		0704050	40	
Housing cover, for connection on one side	EG 22,5-GP/ABS GN	2764056	10	
nousing cover, for conflection on one side	EG 22,5-AE/ABS GN	2907046	25	
Housing cover, for connection on both sides	EG 22,5-AL/AD3 GN	2907040	23	
riousing cover, for connection of source	EG 22,5-A/ABS GN	2764072	25	
Housing cover, closed	EG 22,0-A/ADO GIV	2704072	25	
	EG 22,5-AG/ABS GN	2906636	10	
	Accessories			
COMBICON headers, with right-angled pin strip				
Right	MSTBO 2,5/ 4-GR-5,08	1847123	50	
Left	MSTBO 2,5/ 4-GL-5,08	1850453	50	
COMBICON headers				
	MSTBV 2,5/ 4-G	1753479	250	
COMBICON plug				
5.0 mm pitch 4 8	MVSTBW 2,5/ 4-ST	1792540	50	
9 13				
17				
COMBICON plug				
5.08 mm pitch 4	MVSTBW 2,5/ 4-ST-5,08	1792773	50	
8				
COMBICON spring-cage plugs, with test connection, 5.0 mm pitch	FKCT 2,5/ 4-ST	1909236	50	
COMBICON spring-cage plugs, with test connection, 5.08 mm pitch	FKCT 2,5/ 4-ST-5,08	1902136	50	
COMBICON plug, with hinged release aid	MVSTBW 2,5/ 4-STEH	1784299	50	
	MVSTBW 2,5/ 4-STEH-5,08	1851850	50	
Coding section, for COMBICON headers, is inserted into the	CR-MSTB	1734401	100	
recess on the header				
Coding profile, for COMBICON headers, is inserted into the slot	CP-MSTB	1734634	100	
on the plug, red insulating material				
Printed circuit termination block , for soldering into the printed circuit board, 5.0 mm pitch				
2-pos.	MKKDSH 3/2	1721045	50	
2-pos. 3-pos.	MKKDSH 3/ 3	1721045	50	
o poo.		1721040	- 55	

Basic housings for universal use



16-pos., width: 45 mm

Technical data



26-pos., width: 67.5 mm

Technical data



34-pos., width: 90 mm

Technical data

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recillical da			recillica	dutu		recinical data		
EG 45-G/ABS			EG 67,5-			EG 90-G/ABS		
GN			G/ABS GN			GN		
3.4 W	-		5 W 7.5 W	-		6 W 9.1 W		
0.1 **			7.5 **			3.1 **		
Acryl butadiene styrene (ABS) / HB			Acryl butadiene styrene (ABS) / HB			Acryl butadiene styrene (ABS) / HB		
solid stranded	1	U	solid stranded	1	U	solid stranded	1	U
	VG [A]	[V]	[mm²]	AWG [A]	[V]		WG [A]	[V]
	- 12 24²) - 12 12	250 250	0.2 - 4	24 - 12 24 ²) 24 - 12 12	250 250		- 12 24 ²) - 12 12	250 250
	- 12 12	250	0.2 - 2.5	24 - 12 12	250		-12 12	250
Ordering dat	a		Ordering	data		Ordering da	ta	
Ordornig dat			O' do' mg	uuu	1	ordornig da		1
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
		T KL			i Kt.			i Kt.
EG 45-G/ABS GN	2764140	10	EG 67,5-G/ABS GN	2764292	5	EG 90-G/ABS GN	2764328	10
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
EQ 45 OD/ADO ON	0704450	40	FO 67 F OR/ADO ON	0704000	_	FO 00 OB/ABO ON	0704045	40
EG 45-GP/ABS GN	2764153	10	EG 67,5-GP/ABS GN	2764302	5	EG 90-GP/ABS GN	2764315	10
EG 45-AE/ABS GN	2764409	10	EG 67,5-AE/ABS GN	2907347	10	EG 90-AE/ABS GN	2907350	10
EG 45-A/ABS GN	2764179	10	EG 67,5-A/ABS GN	2764357	10	EG 90-A/ABS GN	2764399	10
50 45 40/450 011		40	50 07 5 40/4P0 0W		40			40
EG 45-AG/ABS GN	2907363	10	EG 67,5-AG/ABS GN	2907376	10	EG 90-AG/ABS GN	2907389	10
Accessories	3		Accessories		Accessories			
MSTBO 2,5/ 8-GR-5,08	1847165	50						
MSTBO 2,5/ 8-GL-5,08	1850495	50						
	1000100							
MSTBV 2,5/ 8-G	1753550	100	MSTBV 2,5/13-G	1753657	50	MSTBV 2,5/17-G	1753738	50
			MVSTBW 2,5/ 4-ST	1792540	50			
MVSTBW 2,5/ 8-ST	1792582	50	WV31BW 2,3/ 4-31	1732340	30	MVSTBW 2,5/ 8-ST	1792582	50
,			MVSTBW 2,5/ 9-ST	1792595	50	MVSTBW 2,5/ 9-ST	1792595	50
			MVSTBW 2,5/13-ST	1792634	50			
						MVSTBW 2,5/17-ST	1792676	50
MVSTBW 2,5/ 8-ST-5,08	1792812	50						
FKCT 2,5/ 8-ST	1909278	50	FKCT 2,5/13-ST	1909320	50	FKCT 2,5/17-ST	1909362	50
FKCT 2,5/ 8-ST-5,08	1902178	50	FKCT 2,5/13-ST-5,08	1902220	50	FKCT 2,5/17-ST-5,08	1902262	50
		00	. 1.0 . 2,0, 10 0 . 0,00	1002220	00			
MVSTBW 2,5/ 8-STEH	1784309	50	MVSTBW 2,5/ 4-STEH	1784299	50	MVSTBW 2,5/ 8-STEH	1784309	50
			MVSTBW 2,5/ 9-STEH	1763401	50	MVSTBW 2,5/ 9-STEH	1763401	50
CR-MSTB	1734401	100	CR-MSTB	1734401	100	CR-MSTB	1734401	100
CP-MSTB	1734634	100	CP-MSTB	1734634	100	CP-MSTB	1734634	100
				1.0.004				
MKKDSH 3/2	1721045	50	MKKDSH 3/ 2	1721045	50	MKKDSH 3/ 2	1721045	50
MKKDSH 3/3 MKKDSH 3/8	1721346 1703283	50 50	MKKDSH 3/3 MKKDSH 3/8	1721346 1703283	50 50	MKKDSH 3/3 MKKDSH 3/8	1721346 1703283	50 50
INITADOR 3/ 0	1703283	50	MILVIDOU 9/ 0	1703263	30	MICKUSH 3/ 0	1703283	30

Basic housings for universal use

EG beaker-type component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

Notes:

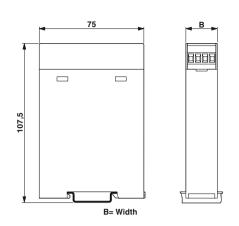
Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting materials: see Catalog 5.

COMBICON plug connectors may only be activated under no load conditions. If for operating reasons small loads must be switched, empirical values are available upon request.

 $^{\mbox{\tiny 1}})$ For information on power dissipation, see page 770.

2) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.





8-pos., width: 22.5 mm



Power dissipation P _v at 20°C in horizontal mounting position¹)
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings
Connection data
MKKDS MSTBV EKCT

	Techn	ical data		
EG 22,5- GMF/PC GN				
1.7 W	-	-	-	
2.7 W	-	-	-	
polycarbonate /	V0			
solid	stranded		- 1	U
[mi	m²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	242)	250
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Description	Grid [mm]	No. of pos.	Width [mm]
Lower housing part, with meta	l foot catch	1	
Housing base, with metal foot of cover	catch and t	est openin	g with side
Housing cover			
For connection on one side			
Housing cover			
For connection on both sides			
Housing cover, closed			

Ordering dat	а	
Туре	Order No.	Pcs. / Pkt.
EG 22,5-GMF/PC GN	2764797	10
EG 22,5-GMFP/PC GN	2764807	10
EG 22,5-AE/PC GN	2764810	10
EG 22,5-A/PC GN	2764823	10
EG 22,5-AG/PC GN	2764836	25

		EG 22,5-AG/PC GN	2764836	25
		Accessorie	S	
COMBICON headers, with right-ang	gled pin strip			
Right Left		MSTBO 2,5/ 4-GR-5,08 MSTBO 2,5/ 4-GL-5,08	1847123 1850453	50 50
COMBICON headers		MSTBV 2.5/ 4-G	1753479	250
COMBICON plug		W31BV 2,3/ 4-G	1733479	230
5.0 mm pitch	4 8 9 13 17	MVSTBW 2,5/ 4-ST	1792540	50
COMBICON plug				
5.08 mm pitch	4 8	MVSTBW 2,5/ 4-ST-5,08	1792773	50
COMBICON spring-cage plugs, w pitch	ith test connection, 5.0 mm	FKCT 2,5/ 4-ST	1909236	50
COMBICON spring-cage plugs, w	ith test connection, 5.08 mm	FKCT 2,5/ 4-ST-5,08	1902136	50
COMBICON plug, with hinged relea	se aid	MVSTBW 2,5/ 4-STEH	1784299	50
		MVSTBW 2,5/ 4-STEH-5,08	1851850	50
Coding section, for COMBICON he recess on the header	eaders, is inserted into the	CR-MSTB	1734401	100
Coding profile, for COMBICON hea on the plug, red insulating material	aders, is inserted into the slot	CP-MSTB	1734634	100
Printed circuit termination block, circuit board, 5.0 mm pitch	for soldering into the printed			
2-pos.		MKKDSH 3/2	1721045	50
3-pos.		MKKDSH 3/3	1721346	50
8-pos.				

Basic housings for universal use



16-pos., width: 45 mm



26-pos., width: 67.5 mm



34-pos., width: 90 mm

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	Technical data					
EG 45- GMF/PC GN						
3.4 W 6.1 W	-	-	-			
polycarbonate	e / V0					
solid	stranded		- 1	U		
]	mm²]	AWG	[A]	[V]		
0.2 - 4	0.2 - 2.5	24 - 12	242)	250		
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250		
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250		

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	Technical data	

EG 67,5- GMF/PC GN				
5 W	-	-	-	
7.5 W	-	-	-	
polycarbonate.	/ V0			
solid	stranded		- 1	U
[m	nm²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	242)	250
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

		Technic	cal data		
EG 90- GMF/PC GN					
6 W	-		-	-	
9 1 W	_		-	_	

polycarbonate /	V0			
solid	stranded		- 1	U
[mi	m²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	242)	250
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
EG 45-GMF/PC GN	2764849	10		
EG 45-GMFP/PC GN	2764852	10		
EG 45-AE/PC GN	2764865	10		
EG 45-A/PC GN	2764878	10		
EG 45-AG/PC GN	2764881	10		

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
EG 67,5-GMF/PC GN	2764894	10			
EG 67,5-GMFP/PC GN	2764917	10			
EG 67,5-AE/PC GN	2764920	10			
EG 67,5-A/PC GN	2764933	10			
EG 67,5-AG/PC GN	2764946	10			

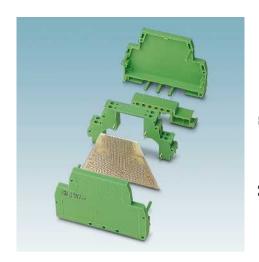
Ordering data					
Туре	Order No.	Pcs. / Pkt.			
EG 90-GMF/PC GN	2764959	10			
EG 90-GMFP/PC GN	2764962	10			
EG 90-AE/PC GN	2764975	10			
EG 90-A/PC GN	2764988	10			
EG 90-AG/PC GN	2764991	10			

EG 45-AG/PC GN	2764881	10	EG 67,5-AG/P		
Accessories	Accessories				
MSTBO 2,5/ 8-GR-5,08 MSTBO 2,5/ 8-GL-5,08	1847165 1850495	50 50			
MSTBV 2,5/ 8-G	1753550	100	MSTBV 2,5/13		
MVSTBW 2,5/ 8-ST	1792582	50	MVSTBW 2,5/ MVSTBW 2,5/ MVSTBW 2,5/1		
MVSTBW 2,5/ 8-ST-5,08	1792812	50			
FKCT 2,5/ 8-ST	1909278	50	FKCT 2,5/13-S		
FKCT 2,5/8-ST-5,08	1902178	50	FKCT 2,5/13-S		
MVSTBW 2,5/ 8-STEH	1784309	50	MVSTBW 2,5/		
			MVSTBW 2,5/		
CR-MSTB	1734401	100	CR-MSTB		
CP-MSTB	1734634	100	CP-MSTB		
MKKDSH 3/2	1721045	50	MKKDSH 3/2		
MKKDSH 3/3	1721346	50	MKKDSH 3/3		
MKKDSH 3/8	1703283	50	MKKDSH 3/8		

Accessories		Accessories			
MSTBV 2,5/13-G	1753657	50	MSTBV 2,5/17-G	1753738	50
MVSTBW 2,5/ 4-ST	1792540	50	MVSTBW 2,5/ 8-ST	1792582	50
MVSTBW 2,5/ 9-ST MVSTBW 2,5/13-ST	1792595 1792634	50 50	MVSTBW 2,5/ 9-ST	1792595	50
			MVSTBW 2,5/17-ST	1792676	50
FKCT 2,5/13-ST	1909320	50	FKCT 2,5/17-ST	1909362	50
FKCT 2,5/13-ST-5,08	1902220	50	FKCT 2,5/17-ST-5,08	1902262	50
MVSTBW 2,5/ 4-STEH	1784299	50	MVSTBW 2,5/ 8-STEH	1784309	50
MVSTBW 2,5/ 9-STEH CR-MSTB	1763401 1734401	50 100	MVSTBW 2,5/ 9-STEH CR-MSTB	1763401 1734401	50 100
СР-МЅТВ	1734634	100	СР-МЅТВ	1734634	100
MKKDSH 3/ 2 MKKDSH 3/ 3	1721045 1721346	50 50	MKKDSH 3/ 2 MKKDSH 3/ 3	1721045 1721346	50 50
MKKDSH 3/8	1703283	50	MKKDSH 3/ 8	1703283	50

Basic housings for universal use

Universal UEG component housing



The universal UEG electronic housing can be supplied in two design widths with screw or slip-on connection.

Main features:

- Housing width of 20 mm or 30 mm
- Up to 16 connections on two levels
- Economical series production, since the base element and the assembled PCB are soldered by machine
- Efficient assembly, thanks to overlapping housing parts
- Installation of one or two PCBs in the housing
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails Universal P1-UEG... PCBs are available for laboratory samples and small series.

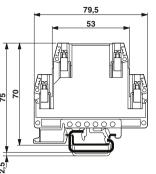
More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

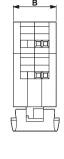
Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting materials: see Catalog 5.

1) For information on power dissipation, see page 770.

2) The nominal voltage applies to fully insulated slip-on sleeves Voltage and current values are affected by the configuration of the printed circuit board.





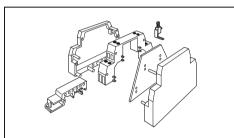




8-pos. with screw connection, width: 20 mm

P 91

6 W



		Technic	al data		
UEG 20					
4 W	-		-	-	

Polyamide (PA	6.6) / V0			
8 mm				
solid	stranded		1	U
	nm²]	AWG	[A]	[V]
004	00.05	04 40	10	500

Ordering dat		
Туре	Order No.	Pcs. / Pkt.
UEG 20	2790211	10

PCB, for custom fitting electronic components Insulating sleeve. as shock protection for 6.3 mm slip-on sleeves; slide over the cable

Electronic housing, fully equipped with 4 screw or 4 slip-on con-

Electronic housing, fully equipped with 4 screw or 4 slip-on con-

Electronic housing, fully equipped with 8 screw or 8 slip-on con-

Power dissipation P_V at 20°C in horizontal mounting position¹)

Mounted in rows without spacing

Type of housing

Stripping length Connection data

Description

Electronic housings

Mounted in rows with min. 20 mm spacing

nections per side, for one printed circuit board

nections per side, for one printed circuit board

nections per side, for two printed circuit boards

For 6.3 mm slip-on sleeves
For 2.8 mm slip-on sleeves
Loop bridge , 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, black
Loop bridge , 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, gray
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks

Accessories					
P 1-UEG	2790224	10			
DB 50- 90 BK	2820916	1			
DB 50- 90 GY	2820929	1			
ZB 5 :UNBEDRUCKT	1050004	10			

Basic housings for universal use



8- and 16-pos. with screw connection, width: 30 mm



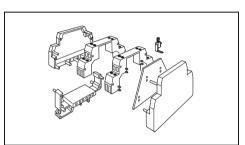
8-pos. with slotted 6.3/2.8 mm slip-on connection, width: 20 mm

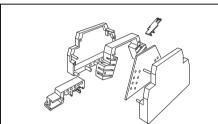
@ **%**

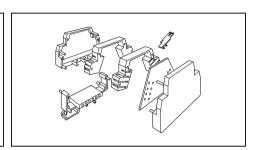


8- and 16-pos. with slotted 6.3/2.8 mm slip-on connection, width: 30 mm









UEG 30/1	UEG 30/2			
4 W	4 W	-	-	
7.2 W	7.2 W	-	-	
Polyamide (PA 6 8 mm	6.6) / V0			
solid	stranded		1	U
[mi	m ²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500

Technical data

			\downarrow		
		Technic	cal data	l	
UEG 20-FS/FS					
4.8 W 8 W	-		-	-	

		Pol
		8 n
1	U	
A]	[V]	
10	500 ²)	

Туре

@ **A**

i ecillicai data				
UEG 30/1- FS/FS	UEG 30/2- FS/FS			
4.8 W	4.8 W	-	-	
8 W	8 W	-	-	

Polyamide (8 mm	PA 6.6) / V0		
solid	stranded [mm²]	AWG	
0.2 - 4 0.2 - 2.5		24 - 12	
Ordering data			

8 mm	PA 6.6) / VU			
solid	stranded		- 1	U
	[mm ²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500 ²)

Ordering data

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
		40	
UEG 30/1	2790871	10	
UEG 30/2	2790240	10	

Туре	Order No.	Pcs. / Pkt.
UEG 20-FS/FS	2790266	10

Accessories

2790428

P 1-UEG-FS/FS

UEG 30/1-FS/FS	2790884	10
UEG 30/2-FS/FS	2790279	10

020.00/2				
Accessories				
P 1-UEG	2790224	10		
DB 50- 90 BK	2820916	1		
DB 50- 90 GY	2820929	1		
		·		
ZB 5 :UNBEDRUCKT	1050004	10		

PT/FS 6,3	0604707 1406700	500 500
PT/FS 2,8	1406700	500
ZB 5 :UNBEDRUCKT	1050004	10

UEG 30/2-FS/FS	2790279	10
Accessories	;	
P 1-UEG-FS/FS	2790428	10
PT/FS 6,3 PT/FS 2,8	0604707 1406700	500 500
ZB 5 :UNBEDRUCKT	1050004	10

Basic housings for universal use

Universal UEGM component housing



The UEGM electronic housings supplement the UEG range and offer an enlarged internal area.

Main features:

- Four housing widths from 22.5 mm to 40 mm
- Choice of screw connections and/or slipon connections
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
- Economical series production, since the base element and the assembled PCB are soldered by machine
- Efficient assembly, thanks to overlapping housing parts
- Complex electronic circuits can be integrated, with up to 24 connections on two levels

A P1-UEGM PCB is available for laboratory samples and small series.

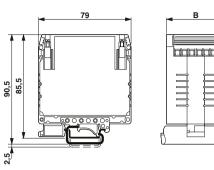
More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting materials:

1) For information on power dissipation, see page 770.

2) The nominal voltage applies to fully insulated slip-on sleeves Voltage and current values are affected by the configuration of the printed circuit board.





Power dissipation P_V at 20°C in horizontal mounting position¹)

Electronic housing, fully equipped with 3 screw or 6 slip-on con-

Electronic housing, fully equipped with 3 screw or 6 slip-on con-

Electronic housing, fully equipped with 3 screw or 6 slip-on con-

Electronic housing, fully equipped with 6 screw or 12 slip-on con-

Mounted in rows without spacing

Type of housing

Stripping length Connection data

Description

25 mm wide

27.5 mm wide

40 mm wide

0.5 mm2, insulation, gray

Electronic housings

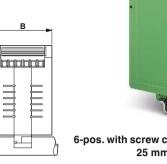
Mounted in rows with min. 20 mm spacing

nections per side, for one printed circuit board

nections per side, for one printed circuit board

nections per side, for one printed circuit board

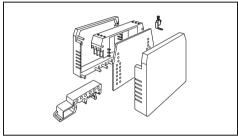
nections per side, for two printed circuit boards



17 🖭 21**17** 3



6-pos. with screw connection, width: 22.5 mm, 25 mm, and 27.5 mm



	Tech	nical data		
UEGM 22,5	UEGM 25			
4 W	4 W	-	-	
10 W	10 W	-	-	
Polyamide (PA 8 mm	. 6.6) / V0			
solid	stranded		1	U
[r	nm²]	AWG	[A]	[V]

0.2 - 4	0.2 - 2.5	24 - 1	2 10	500
	Orderin	g data		
Туре			Order No.	Pcs. / Pkt.
UEGM 22,5			2792002	10
UEGM 25			2792015	10
UEGM 27,5-SMD			2757063	10

PCB, for custom fitting electronic components
Insulating sleeve, as shock protection for 6.3 mm slip-on sleeves; slide over the cable first
For 6.3 mm slip-on sleeves For 2.8 mm slip-on sleeves
Metal for slip-on connection, to increase the number of positions
$\begin{tabular}{ll} \textbf{Loop bridge}, 50\text{-pos., divisible, max. bridging distance 60 mm,} \\ 0.5\ mm^2, insulation, black \end{tabular}$
Loop bridge, 50-pos., divisible, max. bridging distance 60 mm,

Accessories				
P 1-UEGM	2792109	10		
PT/FS 6,3	0604707	500		
PT/FS 2,8	1406700	500		
UEG-MT-FS	2790389	100		
DB 50- 90 BK	2820916	1		
DB 50- 90 GY	2820929	1		

Basic housings for universal use



6- and 12-pos. with screw connection, width: 40 mm



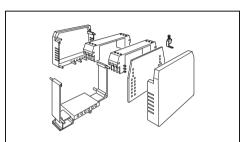
12-pos. with slotted 6.3/2.8 mm slip-on connection, width: 22.5 mm and 25 mm

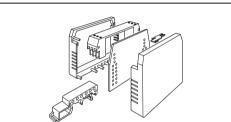
R 99

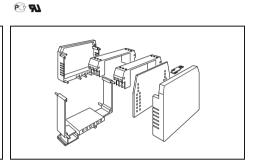


12- and 24-pos. with slotted 6.3/2.8 mm slip-on connection, width: 40 mm









UEGM 40/1	UEGM 40/2			
5.2 W 11.2 W	5.2 W 11.2 W	-	:	
11.2 VV	11.2 VV	-	_	
Polyamide (PA 8 mm	6.6) / V0			
solid	stranded		1	U
[n	nm²]	AWG	[A]	[V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500

Technical data

(
	Tech	nical data	a	
UEGM 22,5- FS/FS	UEGM 25- FS/FS			
4 W 10 W	4 W 10 W	-	-	

Technical data					
UEGM 40/1- FS/FS	UEGM 40/2- FS/FS				
5.2 W	5.2 W	-	-		
11.2 W	11.2 W	-	-		

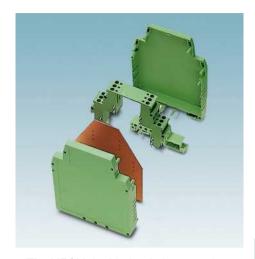
Polyamide (P.	A 6.6) / V0			
solid	stranded		- 1	l
	[mm²]	AWG	[A]	[\
0.2 - 4	0.2 - 2.5	24 - 12	10	50

Polyamide (PA 6.6) / V0						
-						
solid	stranded		- 1	U		
[n	nm²]	AWG	[A]	[V]		
0.2 - 4	0.2 - 2.5	24 - 12	10	500 ²)		

Ordering data		Ordering data		Ordering data				
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
			UEGM 22,5-FS/FS	2792073	10			
			UEGM 25-FS/FS	2792086	10			
UEGM 40/1	2792112	10				UEGM 40/1-FS/FS	2792125	10
UEGM 40/2	2792028	10				UEGM 40/2-FS/FS	2792099	10
Accessories	S		Accessor	ies		Accessories		l
P 1-UEGM	2792109	10	P 1-UEGM	2792109	10	P 1-UEGM	2792109	10
PT/FS 6,3 PT/FS 2,8	0604707 1406700	500 500	PT/FS 6,3 PT/FS 2,8	0604707 1406700	500 500	PT/FS 6,3 PT/FS 2,8	0604707 1406700	500 500
UEG-MT-FS	2790389	100						
DB 50- 90 BK	2820916	1						
DB 50- 90 GY	2820929	1						

Basic housings for universal use

Universal UEGH component housing



The UEGH double-level electronic housing offers double connection options for extensive electronic circuits.

Main features:

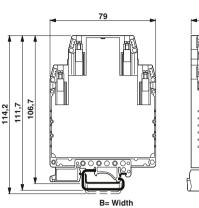
- Six housing widths from 22.5 mm to 45 mm
- 12 or 24 screw connections available
- Increased number of positions, thanks to optional UEGM-MT FS slip-on connections
- Can accommodate up to two PCBs
- UEGH...-SMD versions offer space for PCBs equipped with SMDs on both sides
- Efficient assembly, thanks to overlapping housing parts
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails A P1-UEGH PCB is available for laboratory samples and small series

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

Tightening torque of terminal block screws refer to page 854.

Marking systems and mounting materials:

1) For information on power dissipation, see page 770.



Power dissipation P_v at 20°C in horizontal mounting position¹) Mounted in rows without spacing Mounted in rows with min. 20 mm spacing Type of housing Electronic housings Stripping length Connection data

Description	Grid [mm]	No. of pos.	Width [mm]
Electronic double-level housi connections per side, for one PC		quipped wit	h 6 screw
	5	12	22.5
	5	12	25
Electronic double-level housi connections per side, for one pri element for equipping the PCB	nted circuit	board, witl	n a wider side
	5	12	27.5
Electronic double-level housi connections per side, for one PC		quipped wit	h 6 screw

5 12 Electronic double-level housing, fully equipped with 12 screw connections per side, for two PCBs

Electronic double-level housing, 6 screw connections per side,

with a wider side element for equipping the PCB with SMD components

Electronic double-level housing, fully equipped with 12 screw connections per side, for two printed circuit boards, with a wider side element for equipping the PCB with SMD components

Electronic double-level housing, fully equipped with 12 screw connections per side, for two printed circuit boards, for mounting two 7.5 mm side elements



12-pos. with screw connection, widths: 22.5 mm, 25 mm, and 27.5 mm



Technical data					
UEGH 22,5	UEGH 25	UEGH 27,5- SMD			
4.6 W	4.8 W 7.2 W	5 W	-		
6.7 W	7.2 VV	7.5 W	•		

Polyamide (PA 6.6) / V0 [mm²] AWG [A] [V]

0.2 - 4 0	.2 - 2.5 24 -	· 12 10	500
	ata		
Туре		Order No.	Pcs. / Pkt.
UEGH 22,5		2757102	10
UEGH 25		2757115	10
UEGH 27,5-SMD		2757128	10
oran 27,0 omb		2707120	10

PCB, for custom fitting electronic components
Loop bridge , 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm ² , insulation, black
Loop bridge , 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, gray
Metal for slip-on connection, to increase the number of positions
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks
5

Accessories					
P 1-UEGH	2757335	10			
DB 50- 90 BK	2820916	1			
DB 50- 90 GY	2820929	1			
UEG-MT-FS	2790389	100			
	405004	40			
ZB 5 :UNBEDRUCKT	1050004	10			



12- and 24-pos. with screw connection, widths: 40 mm, 42.5 mm, and 45 mm

.PL D 20 LP20

	Techn	ical dat	a		
UEGH 40/1	UEGH 40/2	UEGH 4	12,5/1-		H 45/2-
6.1 W	6.1 W	SMD 6.3 W		SMD 6.5 W	•
9.1 W	9.1 W	9.5 W		9.8 W	•
Polyamide (PA 8 mm	6.6) / V0				
solid [r	stranded nm²]	AV	VG	I [A]	U [V]
0.2 - 4	0.2 - 2.5	24 -	12	10	500
	Order	ing dat	а		
Туре			Order	No.	Pcs. / Pkt.
UEGH 40/1			2757	144	10
UEGH 40/2			2757	101	10
0LG1140/2			2131	131	10
UEGH 42,5/1-	SMD		2757	157	10
UEGH 42,5/2-	SMD		2757	160	10
HECH 4E/0 C	MD		0757	172	10
UEGH 45/2-S		ssories	2757	1/3	10
P 1-UEGH	7,030		2757	335	10
DB 50- 90 BK			2820	916	1
DB 50- 90 GY UEG-MT-FS			28209 27909		100
ZB 5 :UNBED	RUCKT		1050	004	10

Basic housings for universal use

Universal component housing **UEGM-MSTB**



The UEGM-MSTB electronic housing supplements the UEG range by offering an additional pluggable version

Main features:

- The integrated pin strip makes it possible to use 2- to 12-pos. COMBICON plug-in connectors
- Integration of 3 mm LEDs (max. leg length of 29 mm)
- LED cutouts that are not required can be closed with UEGM MSTB-BS filler plugs
- Plug-in connection can be coded to prevent incorrect polarity using CP-MSTB/CR-MSTB
- Efficient assembly, thanks to overlapping housing parts
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
- The MSTB-BL coding tab can be used to cover individual contact pins in order to form sections on the pin strip.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

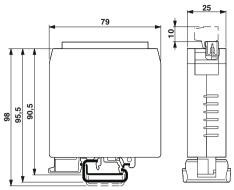
Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting materials: see Catalog 5.
COMBICON plug-in connectors may only be activated under no load conditions. If for operating reasons small loads must be

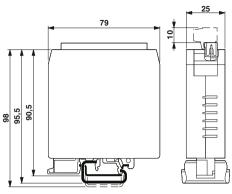
Voltage and current values are affected by the configuration of the printed circuit board.

1) For information on power dissipation, see page 770.

switched, empirical values are available upon request.

2) Please observe the derating curves. Derating curves of further combination options on request

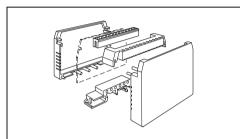






12-pos. with pluggable connection, width: 22.5 mm

P **51**



	Tech	nical data		
UEGM-MSTB				
4 W	-	-	-	
10 W	-	-	-	
Polyamide (PA	6.6) / V0			
solid	stranded		1	U
[n	nm²]	AWG	[A]	[V]
0.2 - 2.5	0.2 - 2.5	24 - 12	122)	250

Ordering data

Туре	Order No.	Pcs. / Pkt.
UEGM-MSTB	2781453	10
MSTBT 2,5/12-ST-5,08	1781085	50
Accesso	ories	
MSTB-BL	1755477	100
UEGM-MSTB-BS	2781466	60
CP-MSTB	1734634	100
CR-MSTB	1734401	100
B-STIFT	1051993	10
ZB 5 :UNBEDRUCKT	1050004	10

Power dissipation P _V at 20°C in horizontal mounting po

Mounted in rows without spacing Mounted in rows with min, 20 mm spacing

Type of housing Electronic housings

Connection data

MSTBT 2,5/..

Description	Grid [mm]	No. of pos.	Width [mm]
Flectronic housings.	with 12-position	COMBICON	I nin strin can

be additionally equipped with 3 mm LED light indicator

		12	25
COMBICON connector			
	5.08	12	

Coding tab, for MSTB headers, for dividing headers, plugged onto the header pin, made from green insulation material

Cover cap, for closing LED cutouts which are not

Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material

Coding section, for COMBICON headers, is inserted into the

Marker pen, not refillable, for manual marking, line thickness 0.5 mm

Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks

Basic housings for universal use

Multifunctional housings for complex electronics

Multifunctional housings



With lots of installation space, a simple PCB contour, and robust design, these housing ranges provide ample space for large components and PCBs.

Multifunctional housings for complex electronics



ME-PLC housing range

Your advantages at a glance:

- Hard soldered or plug-in PCB connection technology
- Removable tray for convenience when plugging in and removing connection technology
- Optional with DIN rail connector
- Hinged cover for uniform front panel
- Robust DIN rail, 105 mm wide



CM housing range

Your advantages at a glance:

- Robust housing type
- Receptacle housing with vents
- A variety of cover designs
- Housing designs for wall mounting
- Individual housing concepts for flexibility where PCB connection technology is concerned



UEG-EU housing

Your advantages at a glance:

- For European-format cards (160 x 100 mm)
- Direct fastening of PCB with secure screw connection
- Frame design concept for convenient expansion of installation space
- Individual housing concepts for flexibility where PCB connection technology is concerned



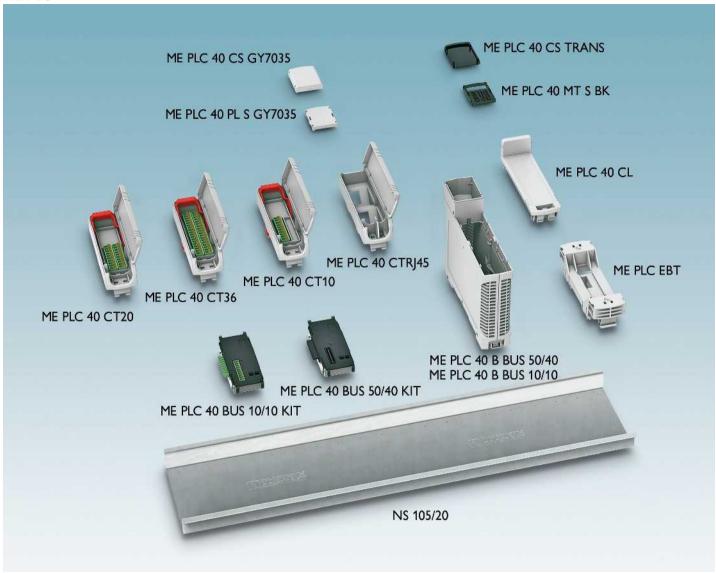
EFG housing

Your advantages at a glance:

- Half-shell design with fitted cover in three
- PCBs fitted with SMDs on both sides can be integrated
- Secure screw connection between housing and PCB
- Individual housing concepts for flexibility where PCB connection technology is concerned

Multifunctional housings for complex electronics

ME PLC



The ME PLC consists of a housing base with a design width of 40 mm that can be combined with various plug-in connection technology modules. The connection technology modules are supplied fully pre-assembled with FKCN 2,5... plug-in connectors. These plug-in connectors provide a quick push-in spring-cage connection for conductor cross sections of up to 2.5 mm².

A universal cover for fixed wiring or indicators and operating elements can also be snapped on with very little effort.

The ME-PLC housing can also be combined with DIN rail connectors. Two versions of the bus connector are available: 50-pos. in the DIN rail and 40-pos. in the device or 10-pos. in the DIN rail and 10-pos. in the device.

Both bus connector versions are supplied as a mounting kit, i.e., without PCB and unmounted. This means that individual and application-specific PCB designs can be integrated easily.

Together with a large PCB assembly area, this housing system offers a high level of functionality for a wide range of applications. The wide DIN rail ensures a secure hold.

Order key for DIN rail NS 105/20:

Order No. Length [mm] Quantity

2201508 40

Min. 40 mm Max. 2000 mm

Multifunctional housings for complex electronics

ME-PLC





Data sheets for the plug-in connectors are available from www.phoenixcontact.net/products



N

	Ordering data		
			Pcs./
Description	Туре	Order No.	Pkt.
Housing base, suitable for 50/40 bus connector, color: light gray			
	ME PLC 40 B BUS 50/40 GY7035	2201500	10
Housing base, suitable for 10/10 bus connector, color: light gray			
	ME PLC 40 B BUS 10/10 GY7035	2201499	10
Universal cover, long design, color: light gray			
	ME PLC 40 CL GY7035	2201505	10
Connection technology carrier, fully assembled with FKCN 2 x 10-pos., cover and release lever, incl. fitted cover; corresponding header: 1 x CCDN 2,5/10-G1 P26 THR (1734355)			
Composition to charactery consists fully accomplised with	ME PLC 40 CT20 GY7035	2201493	10
Connection technology carrier , fully assembled with FKCN 2 x 18-pos., cover and release lever, incl. fitted cover; corresponding header: 1 x CCDN 2,5/18-G1 P26 THR (1734436)			
	ME PLC 40 CT36 GY7035	2201494	10
Connection technology carrier , fully assembled with FKCN 1 x 10-pos., cover and release lever, incl. fitted cover; corresponding header: MSTBA 2,5/10-G (1757543)			
	ME PLC 40 CT10 GY7035	2201492	10
Connection technology carrier for RJ45 connection, pre- assembled with cover and release lever; incl. fitted cover and 2 x RJ45 connector plugs			
2 x 110+3 confidence plags			
2 x 1 lo 43 con inection plugs	ME PLC 40 CTRJ45 GY7035	2201495	10
2 x 11043 conflector plugs	ME PLC 40 CTRJ45 GY7035 Accessories		10
Cover, short design, color: light gray			10
	Accessories	3	
Cover, short design, color: light gray	Accessories	3	
Cover, short design, color: light gray Cover, short design, color: transparent Fitted plate, for assembly underneath the cover in short design,	Accessories ME PLC 40 CS GY7035	2201490	10
Cover, short design, color: light gray Cover, short design, color: transparent	Accessories ME PLC 40 CS GY7035 ME PLC 40 CS TRANS	2201490	10
Cover, short design, color: light gray Cover, short design, color: transparent Fitted plate, for assembly underneath the cover in short design, color: light gray Matrix with defined engagement mechanism, for assembly	Accessories ME PLC 40 CS GY7035 ME PLC 40 CS TRANS	2201490	10
Cover, short design, color: light gray Cover, short design, color: transparent Fitted plate, for assembly underneath the cover in short design, color: light gray Matrix with defined engagement mechanism, for assembly	ME PLC 40 CS GY7035 ME PLC 40 CS TRANS ME PLC 40 PL S GY7035	2201490 2201491 2201497	10 10 10
Cover, short design, color: light gray Cover, short design, color: transparent Fitted plate, for assembly underneath the cover in short design, color: light gray Matrix with defined engagement mechanism, for assembly underneath the cover in short design, color: black Bus connector set consisting of 50-pos. and 40-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail,	ME PLC 40 CS GY7035 ME PLC 40 CS TRANS ME PLC 40 PL S GY7035 ME PLC 40 MT S BK	2201490 2201491 2201497 2201496	10 10 10
Cover, short design, color: light gray Cover, short design, color: transparent Fitted plate, for assembly underneath the cover in short design, color: light gray Matrix with defined engagement mechanism, for assembly underneath the cover in short design, color: black Bus connector set consisting of 50-pos. and 40-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail, without PCB¹) Bus connector set consisting of 2 x 10-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail, without PCB¹)	ME PLC 40 CS GY7035 ME PLC 40 CS TRANS ME PLC 40 PL S GY7035 ME PLC 40 MT S BK	2201490 2201491 2201497 2201496	10 10 10
Cover, short design, color: light gray Cover, short design, color: transparent Fitted plate, for assembly underneath the cover in short design, color: light gray Matrix with defined engagement mechanism, for assembly underneath the cover in short design, color: black Bus connector set consisting of 50-pos. and 40-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail, without PCB¹) Bus connector set consisting of 2 x 10-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN	ME PLC 40 CS GY7035 ME PLC 40 CS TRANS ME PLC 40 PL S GY7035 ME PLC 40 MT S BK ME PLC 40 BUS 50/40 KIT BK ME PLC 40 BUS 10/10 KIT BK	2201490 2201491 2201497 2201496 2201502	10 10 10 10 10
Cover, short design, color: light gray Cover, short design, color: transparent Fitted plate, for assembly underneath the cover in short design, color: light gray Matrix with defined engagement mechanism, for assembly underneath the cover in short design, color: black Bus connector set consisting of 50-pos. and 40-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail, without PCB¹) Bus connector set consisting of 2 x 10-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail, without PCB¹)	ME PLC 40 CS GY7035 ME PLC 40 CS TRANS ME PLC 40 PL S GY7035 ME PLC 40 MT S BK ME PLC 40 BUS 50/40 KIT BK	2201490 2201491 2201497 2201496 2201502	10 10 10 10

Multifunctional housings for complex electronics



CM compact component housing

CM component housing is a comprehensive housing range for designing industrial power electronics to suit control cabinet requirements. The different housing versions make it possible to integrate not only power electronics in the housing, but also standard transformer types with L-shaped cores.

Common features of all CM housing:

- Robust housing technology
- Individual accommodation of electronic components in various module versions with 50 to 200 mm pitch
- Flexible accommodation of different connection elements (from high-position plug-in connectors to electronic PCBs)
- Shock and contamination-proof accommodation of electronic components
- Easy snap-on mounting on symmetrical DIN rails according to EN 60715

Construction principle

The exploded view shows the construction principle of CM housing. The assembled PCB can be inserted in the different guide slots in the housing base. The covering hood is then simply snapped into the housing base.

It is also possible to screw the covering hood and the housing base together.



Accommodating electronic components

The various housing versions enable optimum adaptation to the required PCB area and the required connection technology.

For mounting transformers, spacing bolts are provided in the larger housing versions, onto which the transformers can be screwed.

The PCB is rectangular. Details of PCB dimensions and assembly areas can be found in the Download Center at www.phoenixcontact.com.

Housing technology

The covering hoods for CM 175 with a design height of 35 mm and CM 200 with a design height of 55 mm are always provided with vents. CM housing is designed to accommodate PCBs, which can be used as bus PCBs, for example, in the bottom of the housing.

Individual housing parts that differ from the standard range are available on request.

Mounting

All CM housing is aligned by simply snapping it onto symmetrical DIN rails according to EN 60715. It can be removed by drawing back the orange engagement latch.

There is also the option of using mounting feet instead of DIN rails. The corresponding spacer elements are included with CM 125 - 200 housing.

Conductor connections

CM electronics housing is supplied without recesses for connection elements.

It is therefore possible to make the appropriate recesses in the housing to suit the requirements of the relevant electronic component and connection element. These recesses can be produced in the factory on request.

Standard (with vents) On request

Covering hoods

Types

Type Design width [mm]	12.5 mm	30 mm	35 mm	55 mm	With vents and spacing bolts	Without vents, with spacing bolts	With vents, with- out spacing bolts	Without vents, without spacing bolts	With vents, spac- ing bolts, and device holder
CM 50 50 mm	•	•					•	0	
CM 62 62 mm			•		0	0	•	0	
CM 75 75 mm	•		•		0		•		
CM 90 90 mm	•				0	0	•	0	
CM 125 125 mm	•		•		•	0	•	0	•
CM 175 175 mm			•		•	0			•
CM 200 200 mm				•	•	0			•

Multifunctional housings for complex electronics

CM compact component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

1) For information on power dissipation, see page 770.



Design widths: 50 and 75 mm



Design widths: 62 and 90 mm

Power dissipation P _V at 20°C in horizontal mounting position¹)
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings

Technical data						
CM 50-LG/H	CM 50-LG/H	CM 75-LG/H	CM 75-LG/H			
12,5/BO BK	30/BO BK	12,5/BO BK	35/BO BK			
25 W	26.8 W	31.7 W	40.3 W			
38.3 W	39 W	41.2 W	52.5 W			
D		•				

	Polycarbonate :	fiber	reinforced /	V0
--	-----------------	-------	--------------	----

Technical data							
CM 62-LG/H 35/BO BK							
20.8 W 24.4 W	-	-					
	35/BO BK 20.8 W	20.8 W -					

Description
Electronic module, for PCB insertion with covering hood 12.5 mm high Vents Vents Plus spacer pins
Electronic module, for PCB insertion, with covering hood 30 mm high Vents
Electronic module, for PCB insertion, with covering hood 35 mm high Vents Plus spacer pins Plus device holder
Electronic module , for PCB insertion, with covering hood 55 mm high Plus device holder

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
CM 50-LG/H 12,5/BO BK CM 75-LG/H 12,5/BO BK	2943592 2943602	5 5			
CM 50-LG/H 30/BO BK	2942878	5			
CM 75-LG/H 35/BO BK	2942881	5			

	Polycarbonate fiber reinforced / V0						
	Ordering data						
,	Туре	Order No.	Pcs. / Pkt.				
	CM 90-LG/H 12,5/BO BK	2944876	4				
	CM 62-LG/H 35/BO BK	2944863	5				

Multifunctional housings for complex electronics







Design width: 175 mm



Design width: 200 mm

Technical data				Technical data			Technical data				
CM125-LG/H 12,5/BO BK	CM125-LG/H 35/BO/DB/GH BK			CM175-LG/H 35/BO/DB/GH BK				CM200-LG/H 55/BO/DB/GH BK			
69 W 89.7 W	84.4 W - 109.7 W -	:		120 W - 160 W -	-	:		160 W - 200 W -	-	:	
Polycarbonate	fiber reinforced / V0			Polycarbonate fiber reinforc	ed / V0			Polycarbonate fiber re	inforced / V0		
	Ordering da	ıta		Ord	dering data				Ordering dat	а	
Туре		Order No.	Pcs. / Pkt.	Туре	O	Order No.	Pcs. / Pkt.	Туре		Order No.	Pcs. / Pkt.
CM125-LG/H 1	12,5/BO BK 12,5/BO/DB BK	2942894 2943055	5 5								
CM125-LG/H 3 CM125-LG/H 3 CM125-LG/H 3		2942904 2941691 2941840	5 5 5	CM175-LG/H 35/BO/DB/G	НВК 2	2941507	5				
								CM200-LG/H 55/BO/	DB/GH BK	2941853	1

Multifunctional housings for complex electronics

EFG single component housing



The EFG 45 housing consists of two half shells and a set of three front plates. The front plate insert can be processed and printed cost-effectively.

Two PCBs with components on both sides can be integrated into the EFG 45 housing. A distance of 4.0 mm is available between the PCB and the inner side of the housing in order to be able to also use PCBs equipped with SMD on both sides. Complex functions can be implemented on a PCB surface of 112 x 115 mm.

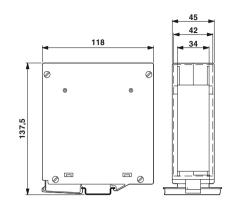
The electronics assembly in the housing is significantly simplified by the half shell design and the front plate insert. The PCBs and the housing are screwed into place. This makes them highly stable.

The EFG 45 housing is snap-locked onto the symmetrical DIN rail in acc. with EN 60715.

Details of PCB layout, dimensions, and assembly areas can be found in the download center at

www.phoenixcontact.net/products.

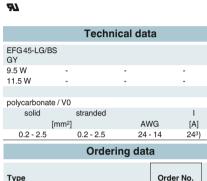
Notes:
Tightening torque of terminal block screws refer to page 854.
1) 400 V is achieved when the pitch spacer RZ 2,5-FRONT 2,5-H(V) is inserted.
²) For information on power dissipation, see page 770.
3) Current carrying capacity curve upon request.



Power	dissipation P _V at 20°C in horizontal mounting position²)
Mounte	d in rows without spacing
Mounte	d in rows with min. 20 mm spacing
Type of	housing
Electro	nic housings
Connec	tion data
FRONT	2,5-H/

Description
Electronic housing, for insertion of two printed circuit boards
Without screw connection terminal blocks

PCB and COMBICON termination blocks, color: green



0.2 - 2.3	0.2 - 2.3	24-14	241)	230)	
	Orderi	ng data			
Туре		Order	No.	Pcs. / Pkt.	
EFG 45-LG/BS	GΥ	2757	474	5	
Accessories					
FRONT 2,5-H/S	A 5	1700	800	50	

[V]

2501)



Multifunctional housings for complex electronics

Universal component housing **UEG-EU**



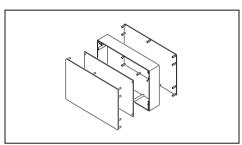
The rail-mountable UEG-EU component housing accepts European-format cards $(160 \times 100 \text{ mm}).$

135



Any number of positions, for European-format

W



Technical data

UEG-EU-BE

Polyamide fiber reinforced / HB

8.9 W 18 3 W

Main features:

- Direct mounting of the PCB on the UEG-EU BE base element with B 2.2 x 9.5 DIN ISO 1481 sheet-metal
- Individual UEG-EU-BE base elements can be added in a row to extend the installation space
- UEG-EU-VS connection pins ensure the necessary stability
- Snap-in mounting on commercially available EN DIN rails
- We will be happy to provide custom cutouts in the base element for connection elements

In order to install PCBs with tall components, it is possible to mount several individual base elements in rows. Engaging metal pins ensures the necessary stability.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center at: www.phoenixcontact.net/products

N	0	te	S	:

1) For information on power dissipation, see page 770.

Power dissipation P _v at 20°C in horizontal mounting position¹)
Mounted in rows without spacing
Mounted in rows with min. 20 mm spacing
Type of housing
Electronic housings

		Ordering data
Description	Туре	Ord
Electronic housing , comprising: base element with snap-on foot, for mounting on NS 35 DIN rails, 35 mm wide		
	UEG-EU-BE	295
Side element, two pieces required, for closing the base element on both sides, 1.5 mm thick		
	UEG-EU-SE	295

Connection pin, for engaging several base elements to form one unit; 12 necessary per element, brass

Ordering data						
Туре	Order No.	Pcs. / Pkt.				
UEG-EU-BE	2956819	5				
UEG-EU-SE	2956822	5				
Accessories	;					
UEG-EU-VS	5028883	100				

Profile racks and adapters

Housing profile



The profile housings offer maximum flexibility. Cut to length to the centimeter, made from plastic and metal, and featuring covering hoods, these housing ranges can be customized for individual device concepts.



UM-ALU housing range

Your advantages at a glance:

- Material: aluminum
- Profile housing can be screwed together with side sections
- Basic profile width 72 mm or 100.5 mm
- Individual profile length
- Selection of cover profiles
- Optional PE contacting
- Freely selectable connection technology



UM-PRO and **UM-Basic** housing range

Your advantages at a glance:

- Material: plastic polyamide (UM-PRO) and PVC (UM-Basic)
- Profile housing can be snapped together with side sections
- Basic profile width: 72, 108, and 122 mm
- Individual profile length



UM profiles housing range

Your advantages at a glance:

- Material: plastic PVC
- Profile housing can be screwed together with side sections
- Basic profile width: 25, 45, 72, 100, 108, and 122 mm
- Individual profile length



UMK housing range

Your advantages at a glance:

- Material: plastic polyamide
- Plug-in elements snap together with no need for tools
- Individual elements 11.25, 22.5, and 45 mm wide



UM plug-in modules housing range

Your advantages at a glance:

- Material: plastic polyamide
- Plug-in elements snap together with no need for tools
- Secure pin connection with metal pins
- Individual elements 16.5 and 35 mm wide

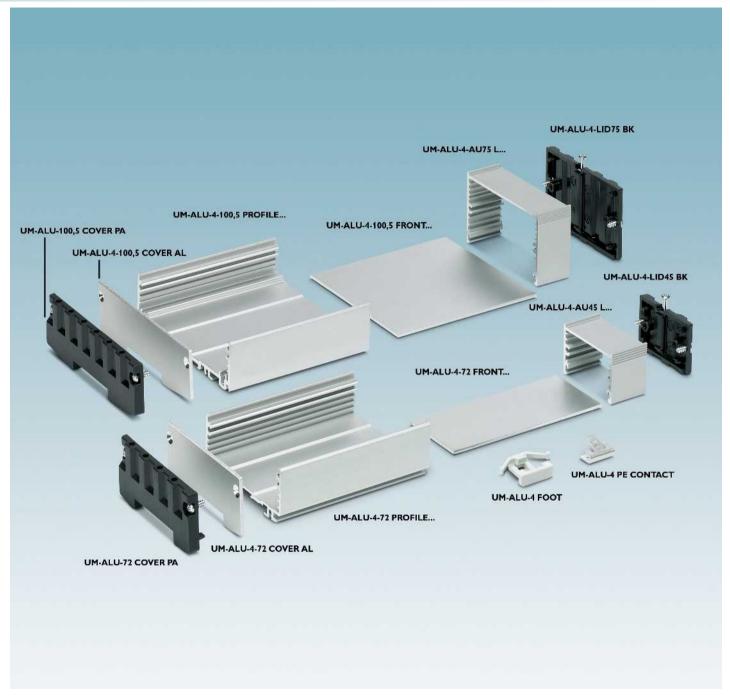


DIN rails - UTA and EM adapters

Your advantages at a glance:

- Material: zinc die-cast and plastic polyam-
- Secure DIN rail mounting for devices without mounting foot

Profile racks and adapters



The rugged UM-ALU housing series, which is made from anodized aluminum, provides protection for your electronics against mechanical stress, electromagnetic interference, and thermal influences.

The housings are particularly well-suited for use in temperature ranges from minus 40°C up to 100°C and offer maximum shock protection of IP40 according to DIN EN 60529.



Rugged press-drawn section

Both the basic profiles and the hood profiles are made of an anodized aluminum press-drawn section. In addition to mechanical strength, the material's outstanding properties also include an extremely high level of heat resistance and shielding against disruptive radiation and noise emission.



Variability in shape

A myriad of housing combinations can be formed by combining a basic profile with one of the two hood profiles, which can be flexibly positioned. The available or customer-specific lengths ensure professional and tailor-made electronic housing.



Unrestricted assembly

Multiple PCB levels in the basic and hood profiles provide electronics engineers with the required flexibility for positioning various components or modules.



PE contacting

An optional PE contact can also be provided on the basic profile. The press-in method penetrates the anodized layer and provides a conductive connection between the housing and the DIN rail. Contacting is carried out via standard cable lugs for flat plugs according to DIN 46244-A6.3



DIN rail mounting

The freely-positionable foot element is used for fixing to the DIN rail. The housing is reliably secured, as usual, by swinging it into place and latching. Best of all - no tools are needed for removal and it can be carried out effectively "blind" - simply gently push the housing vertically in respect to the DIN rail and tilt it out. Depending on the application, several foot elements can be mounted and used per housing.



Individuality from the works

In addition to the products which can be ordered from the catalog, we offer an extensive range of additional services from special profile lengths through additional mechanical processing and printing, and even membrane keypads.

Profile racks and adapters

UM-ALU 4 aluminum profile housing

Notes:

For SF-TX-SET (Order No. 1212539) and SF-M-Set (Order No. 1212543) screwdriver set, see www.phoenixcontact.net/products



Aluminum basic profile . Width: 72 mm



Aluminum basic profile Width: 100.5 mm

	Ordering data			Ordering data			
Description	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	
Basic profile, one-piece Length 42.5 mm Length 60 mm Length 95 mm Length 130 mm Length 165 mm Length 200 mm Length 200 mm Length 935 mm Length 990 mm	UM-ALU 4-72 PROFILE 42,5 UM-ALU 4-72 PROFILE 60 UM-ALU 4-72 PROFILE 95 UM-ALU 4-72 PROFILE 130 UM-ALU 4-72 PROFILE 165 UM-ALU 4-72 PROFILE 200 UM-ALU 4-72 PROFILE 235 UM-ALU 4-72 PROFILE 990	2200917 2200918 2200919 2200920 2200921 2200922 2200923 2200924	1 1 1 1 1 1	UM-ALU 4-100,5 PROFILE 42,5 UM-ALU 4-100,5 PROFILE 60 UM-ALU 4-100,5 PROFILE 95 UM-ALU 4-100,5 PROFILE 130 UM-ALU 4-100,5 PROFILE 165 UM-ALU 4-100,5 PROFILE 200 UM-ALU 4-100,5 PROFILE 235 UM-ALU 4-100,5 PROFILE 990	2200935 2200936 2200937 2200938 2200939 2200940 2200941 2200942	1 1 1 1 1 1	
Basic profile front plate Length 42.5 mm Length 60 mm Length 95 mm Length 130 mm Length 165 mm Length 200 mm Length 235 mm Length 990 mm	UM-ALU 4-72 FRONT 42,5 UM-ALU 4-72 FRONT 60 UM-ALU 4-72 FRONT 95 UM-ALU 4-72 FRONT 130 UM-ALU 4-72 FRONT 165 UM-ALU 4-72 FRONT 200 UM-ALU 4-72 FRONT 235 UM-ALU 4-72 FRONT 990	2200925 2200926 2200927 2200928 2200929 2200930 2200931 2200932	1 1 1 1 1 1 1	UM-ALU 4-100,5 FRONT 42,5 UM-ALU 4-100,5 FRONT 60 UM-ALU 4-100,5 FRONT 95 UM-ALU 4-100,5 FRONT 130 UM-ALU 4-100,5 FRONT 165 UM-ALU 4-100,5 FRONT 200 UM-ALU 4-100,5 FRONT 235 UM-ALU 4-100,5 FRONT 990	2200943 2200944 2200945 2200946 2200947 2200948 2200949 2200950	1 1 1 1 1 1 1 1	
Side plate set, including snap-on foot with screws for basic profile, anodized aluminum Profile cap set, including snap-on foot with screws for polyamide basic profile, black	UM-ALU 4-72 COVER AL UM-ALU 4-72 COVER PA BK	2200933 2200934	1	UM-ALU 4-100,5 COVER AL UM-ALU 4-100,5 COVER PA BK	2200951 2200952	1	
Module cap set, including mounting screws, polyamide, black, 75 mm	UM-ALU 4 LID75 PA BK	2200972	1	UM-ALU 4 LID75 PA BK	2200972	1	
	Accessories Accessories						
Grounding clamp for making contact with DIN rail	UM-ALU 4 PE CONTACT	2200973	5	UM-ALU 4 PE CONTACT	2200973	5	
Snap-in element for DIN rail including screw	UM-ALU 4 FOOT	2200974	5	UM-ALU 4 FOOT	2200974	5	

UM-ALU 4 aluminum profile housing



Aluminum hood profile, width: 45 mm



Aluminum hood profile, width: 75 mm

	Ordering data			Ordering data			
Description	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	
Module profile one-piece (U-shape), anodized aluminum, width 45 mm, for mounting on black profile cap set (COVER PA)							
Length 25 mm Length 42.5 mm Length 60 mm Length 95 mm Length 130 mm Length 165 mm Length 200 mm Length 200 mm Length 235 mm	UM-ALU 4 AU45 L25 UM-ALU 4 AU45 L42,5 UM-ALU 4 AU45 L60 UM-ALU 4 AU45 L95 UM-ALU 4 AU45 L130 UM-ALU 4 AU45 L165 UM-ALU 4 AU45 L200 UM-ALU 4 AU45 L200	2200953 2200954 2200955 2200956 2200957 2200958 2200959 2200960	1 1 1 1 1 1				
Module profile, one-piece (U-shape), anodized aluminum, width 75 mm Length 25 mm Length 42.5 mm Length 60 mm Length 130 mm Length 156 mm Length 200 mm Length 200 mm Length 235 mm Length 935 mm				UM-ALU 4 AU75 L25 UM-ALU 4 AU75 L42,5 UM-ALU 4 AU75 L60 UM-ALU 4 AU75 L95 UM-ALU 4 AU75 L130 UM-ALU 4 AU75 L165 UM-ALU 4 AU75 L200 UM-ALU 4 AU75 L235 UM-ALU 4 AU75 L235	2200962 2200963 2200964 2200965 2200966 2200969 2200969 2200970	1 1 1 1 1 1 1 1	
Module cap set, including mounting screws, polyamide, black, 45 mm	UM AL II A LIDAS DA DIV	0000074					
Module cap set , including mounting screws, polyamide, black, 75 mm	UM-ALU 4 LID45 PA BK UM-ALU 4 LID75 PA BK	2200971	1	UM-ALU 4 LID75 PA BK	2200972	1	
	Accessories Accessories						
Grounding clamp for making contact with DIN rail	UM-ALU 4 PE CONTACT	2200973	5	UM-ALU 4 PE CONTACT	2200973	5	
Snap-in element for DIN rail including screw							
	UM-ALU 4 FOOT	2200974	5	UM-ALU 4 FOOT	2200974	5	

Profile racks and adapters

UM-PRO and UM-BASIC press-drawn section panel mounting bases



UM-PRO and UM-BASIC press-drawn section housing, available in three versions (72/108/122), combines short assembly times and maximum flexibility when choosing the connection technology. Thanks to the plastic polyamide and special profile geometry, UM-PRO is suitable for operating temperatures of up to 100°C and higher mechanical loads.

Made from halogen-free high-temperature plastic, UM-PRO profile housing meets the requirements for UL device approval and marketing on the US market.

The low-profile design supports the assembly of flat electronic modules and their mounting on standard DIN rails or directly on the panel. The top PCB can have components assembled up to the edge and fixed by means of a quick-action mechanism. Other customer benefits include further options, such as the free positioning of covering hoods or the selectable BUS option for connecting modules.



Fast housing assembly: plugging instead of screwing

The fact that profile pieces can be snapped quickly and securely in place using UM-PRO...COVER side parts helps mitigate increasing cost pressures during the final device assembly stages.



Integration of various connection technologies

Since the top PCB fits flush against the side of the profile, it can have components assembled up to the edge. This PCB can also be secured with the UM-PRO PCB S(C)-LOCK locking element. The connectors remain freely accessible for wiring by the end customer.



Integrated PE contact

The UM-PRO PE CONTACT potential ground contact, which can be integrated on either side, establishes an electrical connection between the inserted PCB and the DIN rail. This eliminates the need for additional PE terminal blocks and extensive cabling work.



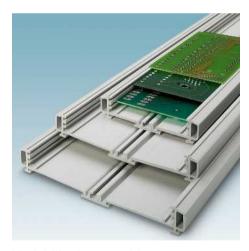
Flexible positioning of covering hoods

The ability to position the covering hoods as required means that sensitive areas on the board can be protected independently. The UM-PRO LID... snap-in lids are easy to mount and remove using just a screwdriver. It is easy to combine connection technologies with a variety of space requirements.



BUS cross contacting of housing

The integrated design of the standard MINI COMBICON connector plugs at the lowest PCB level supports cost-effective device networking.



Variability in assembly

Three guides in the profile enable PCB arrangements on different levels and combinations with a front cover, for example.

Profile racks and adapters

UM-PRO and **UM-BASIC** press-drawn section panel mounting base



Main properties and benefits

- Plug-in assembly reduces assembly time and thereby saves costs
- The 72/108 and 122 mm widths provide compatible high-end alternatives to popular UM profiles
- Temperature range up to 100°C extends the possible fields of application (UM-PRO)
- Well-designed profile geometry increases the form stability
- 3 profile guideways support various PCB configurations
- Mounting close to the edge provides wiring advantages
- Freely positionable rear covering hoods offer flexibility
- PE contacts that can be fitted on both sides ensure safety
- Device communication can be extended by BUS cross contacting
- Marking area for standard SK strips or marking foil TML (max. height 6 mm)
- Additional marking of PCB with Phoenix module marker carrier PMB (bore hole diameter 4 mm)
- Additional foot elements increase mechanical stability

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

More information on the housing:
UM-PRO profile made from PA-GF HT, inflammability class V0 (UL 94)
UM-BASIC profile made from PVC, inflammability class V0 (UL 94)
UM-PRO COVER and UM-PRO LID lateral elements made from polyamide PA, inflammability class V0 (UL 94)U-shaped profile covers made from PC, inflammability class V0 (UL 94).

1) Please indicate the desired length in [cm].



Press-drawn section, 72 mm wide

97

	Ordering dat	а	
Description	Туре	Order No.	Pcs. / Pkt.
Press-drawn section cut to customer-specific length,			rkt.
color: light gray (similar to RAL 7035)			
Specify length in [cm] according to order key	UM-PRO PROFILE UM-BASIC PROFILE	2200148 2200149	1 1
Lateral elements with mounting foot for NS35 DIN rails, with groove for accommodating PE contact metal, can be inserted in UM-PRO/UM-BASIC profiles, color: black (similar to RAL 9005)			
Version: left, width: 72 mm	UM-PRO 72 COVER-L BK	2200151	10
Version: left, width: 108 mm			
Version: left, width: 122 mm	ppg == 00/Fp p p/		40
Version: right, width: 72 mm Version: right, width: 108 mm	UM-PRO 72 COVER-R BK	2200152	10
Version: right, width: 100 mm			
U-shaped profile cover, low version, high-temperature-resistant PC material, 73 mm wide (internal dimensions: 69 mm)¹)			
	UM-PRO A/U N 73 CM	2200310	1
U-shaped profile cover, high version, high-temperature-resistant PC material, 73 mm wide (internal dimensions: 69 mm). Please observe the order key			
	UM-PRO A/U 73 CM	2200311	1
U-shaped profile cover, high-temperature-resistant PC material, 92 mm wide (internal dimensions: 88 mm)			
92 mm wide (internal dimensions, 86 mm)	UM-PRO A/U 92 CM	2200312	1
Latching cover black, for lateral sealing of profile covers (2 units are required for each hood) for:			
UM-PRO A/U N 73 CM	UM-PRO LID-73N BK	2200174	10
UM-PRO A/U 73 CM	UM-PRO LID-73 BK	2200173	10
UM-PRO A/U 92 CM	UM-PRO LID-92 BK	2200172	10
	Accessories		
Foot element for DIN rails, for mounting under press-drawn section			
Width: 72 mm	UM-PRO 72 FOOT BK	2200153	10
Width: 108 mm			
Width: 122 mm			
PE contact metal for snapping into lateral elements, includes mounting screw (head diameter 6 mm)			
Version for top PCB level	UM-PRO PE CONTACT L1	2200161	20
Version for middle PCB level	UM-PRO PE CONTACT L2	2200162	20
Version for bottom PCB level	UM-PRO PE CONTACT L3	2200163	20
Add-on element for fixing PCBs			
Version for top PCB, lateral, black	UM-PRO PCB S-LOCK BK	2200168	100
Version for top PCB, central, black	UM-PRO PCB C-LOCK L1 BK	2200164	50
Version for middle PCB, central, black	UM-PRO PCB C-LOCK L2 BK	2200165	50
Version for bottom PCB, central, black	UM-PRO PCB C-LOCK L3 BK	2200166	50
Mounting flange, for direct wall mounting. Color: black	UM-PRO MOUNT BK	2200171	10
Screwdriver	SZF 0-0,4X2,5	1204504	10



Press-drawn section, 108 mm wide



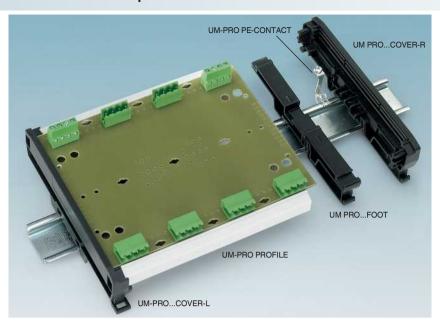
Press-drawn section, 122 mm wide

977

*9*1

Ordering data			Ordering data				
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.		
UM-PRO PROFILE UM-BASIC PROFILE	2200148 2200149	1 1	UM-PRO PROFILE UM-BASIC PROFILE	2200148 2200149	1 1		
UM-PRO 108 COVER-L BK UM-PRO 108 COVER-R BK	2200155 2200156	10	UM-PRO 122 COVER-L BK	2200158	10		
			UM-PRO 122 COVER-R BK	2200159	10		
UM-PRO A/U N 73 CM	2200310	1	UM-PRO A/U N 73 CM	2200310	1		
UM-PRO A/U 73 CM	2200311	1	UM-PRO A/U 73 CM	2200311	1		
UM-PRO A/U 92 CM	2200312	1	UM-PRO A/U 92 CM	2200312	1		
UM-PRO LID-73N BK UM-PRO LID-73 BK UM-PRO LID-92 BK	2200174 2200173 2200172	10 10 10	UM-PRO LID-73N BK UM-PRO LID-73 BK UM-PRO LID-92 BK	2200174 2200173 2200172	10 10 10		
Accessories			Accessories	1			
UM-PRO 108 FOOT BK	2200157	10	UM-PRO 122 FOOT BK	2200160	10		
UM-PRO PE CONTACT L1	2200161	20	UM-PRO PE CONTACT L1	2200161	20		
UM-PRO PE CONTACT L2	2200162	20	UM-PRO PE CONTACT L2	2200162	20		
UM-PRO PE CONTACT L3	2200163	20	UM-PRO PE CONTACT L3	2200163	20		
UM-PRO PCB S-LOCK BK	2200168	100	UM-PRO PCB S-LOCK BK	2200168	100		
UM-PRO PCB C-LOCK L1 BK	2200164	50	UM-PRO PCB C-LOCK L1 BK	2200164	50		
UM-PRO PCB C-LOCK L2 BK	2200165	50	UM-PRO PCB C-LOCK L2 BK	2200165	50		
UM-PRO PCB C-LOCK L3 BK	2200166	50	UM-PRO PCB C-LOCK L3 BK	2200166	50		
UM-PRO MOUNT BK	2200171	10	UM-PRO MOUNT BK	2200171	10		
SZF 0-0,4X2,5	1204504	10	SZF 0-0,4X2,5	1204504	10		

Profile racks and adapters



Order key for UM-PRO and UM-BASIC

Pcs.	Order No.	Profile width		Length [cm]		Color
1	22 00 14 8	/ UM-PRO UM-PRO 72≘ 72 mm	/	22,5 3.0 cm.	/	GY7035 GY7035 ≘ Light gray
		UM-PRO 108 ≘ 108 mm UM-PRO 122 ≘ 122 mm		minimum 100.0 cm, maximum		C17005 = Light gray

General note:

The area available for assembly is reduced by 3.1 mm at both edges of the press-drawn sections.

Ordering information:

In order to determine the profile length, 1.6 cm must be subtracted from the PCB length.

The overall length of the module, i.e., including the lateral elements, is equal to the PCB length plus 0.4 cm.

The maximum length of a profile cover is the PCB length minus 1.9 cm.

When using the UM-PRO PE-CONTACT, the maximum length is reduced by a further 0.91 cm per contact.

Ordering example:

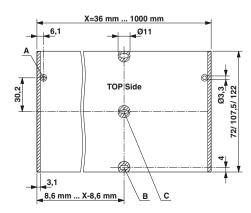
For a PCB of 160 x 107.5 x 1.5 mm, the profile length is: 2200148/UM-PRO 108/14,4/GY7035

Order key for profile covers

Pcs.	Order No.	Width of cover [mm]] Length [cm]
1	22 00 31 1	/ AU 73	/ 8,4
		AU 73	3.0 cm, minimum 100.0 cm,
			maximum

UM-PRO and UM-BASIC PCBs

A = Drill hole for optional PE contact; B = For optional S-LOCK PCB lock in top level; C = For optional C-LOCK PCB lock (all levels)



Profile racks and adapters

Profile racks and adapters

UM press-drawn section panel mounting bases

Individual adaptation of UM press-drawn sections to the dimensions of PCBs means that a host of electronic circuits can be made DIN-rail mountable.

UM profile housing consists of the following components: UM... press-drawn section, UM...SE lateral elements in various widths and heights, UM...FE foot elements, and UM profile covers for UM 100, UM 108, and UM 122.

Depending on the desired module length and the space required, the pressdrawn section can be cut to size individually and combined with lateral and foot elements to form a module.

Six graded profile versions are available for PCB widths of 22 mm, 42 mm, 72 mm, 100 mm, 107.5 mm, and 122 mm.

The modules are mounted on commercially available or DIN rails (UM 25 and UM 45 only on LJ DIN rails) or directly on the mounting plate with the UMK-BF mounting flange.

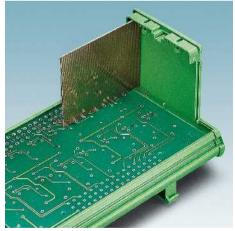
Marking grooves ensure clear identification of the module with standard marking materials (ZB 5).

The standard color of press-drawn sections is green.

Additional advantages of UM pressdrawn sections:

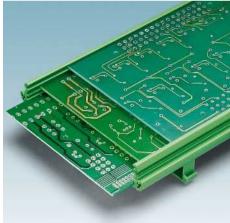
- Inexpensive as a result of reducing the number of separate housing parts
- Flexible size and shape
- High degree of mechanical stability by screwing the lateral elements to the pro-
- Profile cover can provide protection for the electronics in UM 100, UM 108, and UM 122 versions





More capacity

UM 100 and 108 press-drawn sections with cover for optional extension of vertically-mounted PCBs.



Free positioning of PCBs

PCB guides on up to three levels support compact electronic circuits, e.g., using SMD technology.



Custom length

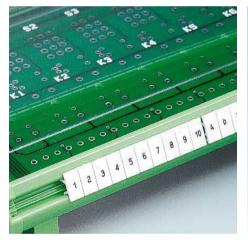
The profiles can be cut without rigid pitch divisions to within a millimeter, so that the housing profile can be tailored to fit the electronics.



Potential earth contact

The PE contact integrated into the lateral element connects the inserted PCB to the DIN rail. What this means for you:

- **Excellent EMC properties**
- No need for an additional PE terminal block when shielded sensor cables are used



Clear marking

The marker groove provided on both sides means that the profile can be marked flexibly and individually with ZB 5 marking material.



Choice of shape and color

In addition to the standard green color, UM 45 and UM 108 press-drawn sections are available in black, UM 72 in black, light gray, and beige, and UM 122 in light gray and black.

Accessories

Optional transparent UM...A/U profile covers are available for press-drawn section panel mounting bases in design widths UM 100, UM 108, and UM 122.

Different UM...SE... lateral elements are used, depending on the cover selected. These elements can be supplied with or without a foot and with optional integrated potential earth contact. Guide slots are integrated in the tall lateral elements. This means that additional PCBs can be arranged vertically on the base PCB.

Transparent UM...A/U U-profile covers come in various lengths, depending on the length of the profile.

Using the UMK-BF mounting flange, modules can be mounted directly on the wall. Extra UM...-FE foot elements increase the overall stability of longer modules.

Degree of protection

By using optional UM...-A/U covers, shock and contamination-proof electronic modules can be created. The degree of protection of housing and terminal blocks protected in this way corresponds to IP20 (according to IEC 60529/EN 60529).

Materials

Housing and transparent covers are made from extruded PVC (UL 94 - V0). This material has an excellent price/performance ratio. The maximum permissible operating temperature is 50°C. Covers ending in HT are made from high-temperature-resistant thermoplastic PC (UL 94-V0).

Conductor connections

A host of possibilities for external conductor connection are available, thanks to the wide range of electronic PCB terminal blocks, screw, COMBICON, spade, and spring-cage connections.

Profile racks and adapters

UM profile panel mounting base

The UM 25 and UM 45 compact pressdrawn sections offer a variety of options for installing electronic modules in situations where there is not much installation space available.

The slim UM 25 and UM 45 modules are mounted transversely in relation to the DIN

A special UM 25/45-FEO 200 foot element is used for this purpose. This arrangement is suitable for module lengths of 8 - 20 cm. The positive latch in the foot element can be prepared for the required module length.

An additional side element is available for the UM 45 module. This enables the module to be mounted longitudinally on the NS 35 DIN rail in any length.

The press-drawn sections are manufactured to the required length and are available in lengths up to 100 cm.

Further advantages:

- Quick assembly
- The UMK-BF mounting flange enables the modules to be mounted directly on the wall
- UM ...-SES side element offers options for marking with Phoenix Contact SS-ZB marking material (see also catalog 5)
- Cable fixing through the UM ...-SEK side element (fixed with cable ties, not supplied as standard)

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

Notes:	
Informa	tion concerning the housing:
PVC pro	file, inflammability class V0 (UL 94)
Polyamio	le PA side elements, inflammability class V0 (UL 94)
1) To def key.	ne the profile length and width, please observe the order



For 25 mm wide PCBs

	Technical data		
Type of housing			
Electronic housings	PVC/V0		
	Ordering data		
Description	Туре	Order No.	Pcs. / Pkt.
Drawn section Fixed length 100 cm Cut to length according to customer specifications¹) Side supporting element, must be be mounted at right angles to	UM 25-PROFIL 100CM UM -PROFIL	2915795 2952020	1 1
the NS 35 to support the housing			
Side element With marker groove, 11 mm wide, marking with SS-ZB.	UM 25-SES	2959285	10
Without marker groove, 6 mm wide			
$\begin{tabular}{ll} \textbf{Side element}, with cable tie, 6 mm wide, fixed using cable ties, not included in the delivery \\ \end{tabular}$			
	UM 25-SEK	2959298	10
Side element , with foot, 10 mm wide, mounted longitudinally to the NS 35, marking with SS-ZB			
Without PCB guide in side element			
Foot element, is inserted in the profile, limit stop with screw, mounted at right angles to the NS 35			
	UM 25/45-FEO 200	2959434	10
	Accessories		
Marker tags, 5-section, unprinted, marking with X-PEN, M-PEN, plotter or BKMT 20 x 8 label	SS-ZB WH	5031171	50
yellow	SS-ZB YE	5031650	50
Mounting flange, for mounting directly on the wall	UMK-BF	2976077	50

UM...-PROFIL CM

Profile racks and adapters

.-SES



SS-ZB YE

UMK-BF

5031650

2976077

50

50

For 45 mm wide PCBs Technical data			UM 45-SE UM 45-SE UM 45-SES UM 45-SEFE UMSES
Technical data			UMSEK UM 25/45-FEO 200
PVC / V0			UMK-BF
Ordering data			Assembly of the UM 25 and UM 45 profiles
Туре	Order No.	Pcs. / Pkt.	Order key for UM profiles:

			order key for ori promess
UM 45-PROFIL 100CM UM -PROFIL	2914550 2952020	1	Quantity Order No. Profile width Length [cm] Color
UM 45-SEAS	2907554	10	1 29 52 02 0 / UM 108 / 22,5 / GN6021
UM 45-SES	2959308	10	UM 25 = 25 mm Min. 3.0 cm GN6021 = Pale green UM 45 = 45 mm Max. 100.0 cm BK9005 = Jet black UM 72 = 72 mm GY7032 = Pebble gray
UM 45-SE	2906131	10	UM 100 ≘ 100 mm GY7035 ≘ Light gray UM 108 ≘ 108 mm UM 122 ≘ 122 mm
UM 45-SEK	2959311	10	
UM 45-SEFE UM 45-SEFE O.N.	2907826 2959793	10 10	General note: The area that can be equipped is reduced once by 3 mm at the edges of the profiles. Ordering notes: In order to determine the profile length, 0.3 cm must be subtracted from the PCB length.
			The exception is when a side element with the ending O.N. is used; here the profile length is the same as that of the PCB.
UM 25/45-FEO 200	2959434	10	
Accessories			
SS-ZB WH	5031171	50	

Profile racks and adapters

UM profile panel mounting base

The UM 72, UM 100, and UM 108 pressdrawn sections offer three levels for PCBs for flexible positioning or SMD technology (for example).

Very small UM ...-LG 10 modules, measuring 10×90 mm or 10×125 mm, can be created by combining two side elements. The press-drawn sections are manufactured to the required length and are available in lengths up to 100 cm.

Optional UM 108 A/U... transparent covers in two heights and with widths of 60 and 73 mm are available for the UM 100 and UM 108. Guide slots are integrated into the tall side elements. This means that additional printed circuit boards can be arranged vertically on the base printed circuit board.

Further advantages:

- Fast installation on conventional NS 35 or NS 32 DIN rails
- The modules can be marked with Phoenix marking material in the label grooves provided
- Side elements with potential-earth contact from the PCB to the DIN rail (EMC)
- A host of options for external conductor connection, see chapter COMBICON control

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

Information concerning the housing:

PVC profile, inflammability class V0 (UL 94).

Polyamide PA side elements, inflammability class V0 (UL 94).

U-shaped PVC profile covers, inflammability class HB (UL 94).

U-shaped PC profile covers, high-temperature resistant, inflammability class V0 (UL 94).

- 1) To define the profile length and width, please observe the order
- 2) Please indicate the desired length in [cm].



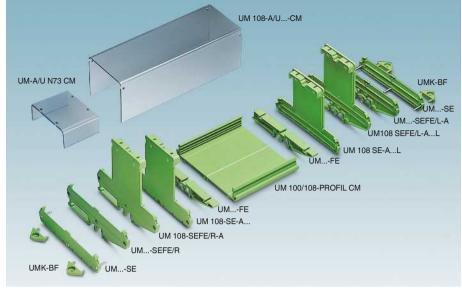
For 72 mm wide PCBs

	Technical data		
Type of housing			
Electronic housings	PVC / V0		
	Ordering data		
Description	Туре	Order No.	Pcs. / Pkt.
Drawn section			
Fixed length 100 cm	UM 72-PROFIL 100CM	2907583	1
Cut to length according to customer specifications ¹)	UM -PROFIL	2952020	1
Side element with foot, 5 mm wide, right hand side, for mounting NS 32 or NS 35			
NO 02 01 NO 05	UM 72-SEFE/R	2959353	10
Side element with foot, 5 mm wide, left hand side			
For mounting on \square or \square ,	UM 72-SEFE/L	2959340	10
With PE contact to the DIN rail	UM 72-SEPEF/L	2906487	10
Side element, 5 mm wide	UM 72-SE	2959337	10
Foot element, for mounting on NS 35 or NS 32, under the UM 72	UNI 12-3E	2939331	10
or UM 108 profile housing			
	UM 72-FE	2959382	10
	Accessories		
Side element, with foot, tall version, right hand,			
For 60 mm wide U-shaped cover			
for 73 mm wide U-shaped cover Side element, with foot, flat version, right hand			
for 73 mm wide U-shaped cover Side element, with foot, flat version, left hand for 73 mm wide U-shaped cover With PE contact to the DIN rail			
Side element, flat version, without foot green			
Side element, tall version, without foot For 60 mm wide U-shaped cover			
for 73 mm wide U-shaped cover			
Side element, with foot, tall version, left hand,			
For 60 mm wide U-shaped cover			
With PE contact to the DIN rail			
for 73 mm wide U-shaped cover			
With PE contact to the DIN rail			
Vitin PE contact to the Distrain 10 profile cover, tall version, widths of 60 mm (internal dimension 56 mm) and 73 mm (internal dimension 69 mm) are available. Please note the ordering example and the order key.			
U-shaped cover, flat version, high-temperature resistant PC material, 73 mm wide (internal dimensions 69 mm) ²)			
Mounting flange, for mounting directly on the wall	UMK-BF	2976077	50
10 mm wide module, consisting of two side elements, PCB dimensions: 8 x 72 or 8 x 107.5 mm			
8	UM 72-LG 10	2959366	10

Profile racks and adapters



For 107.5 mm wide PCBs



Assembly of the UM 72 and UM 100/108 press-drawn sections

Technical data

PVC / V0

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
UM100-PROFIL 100CM UM108-PROFIL 100CM UM -PROFIL	2914563 2907525 2952020	1 1 1	
UM108-SEFE/R	2959683	10	
UM108-SEFE/L UM108-SEPEF/L	2959696 2906490	10 10	
UM108-SE	2959476	10	
UM400 FF	0050400	40	

UM108-FE	2959463	10		
Accessories				
UM108-SEFE/R-A60 UM108-SEFE/R-A73	2959706 2959719	10 10		
UM108 N-SEFE/R-A73	2709354	10		
UM108 N-SEFE/L-A73 UM108 N-SEPEF/L-A73 UM108 N-SE-A73	2709367 2709370 2709383	10 10 10		
UM108 N-SE-A73	2709383	10		
UM108-SE-A60	2959748	10		
UM108-SE-A73	2959751	10		
UM108-SEFE/L-A60	2959722	10		
UM108-SEPEF/L-A60 UM108-SEFE/L-A73	2906500 2959735	10 10		
UM108-SEPEF/L-A73 UM108-A/U CM	2906513 2854898	10 1		
5 m 165-2/5 5 m	2004030	•		
UM-A/U N 73 CM	2706852	1		
UMK-BF	2976077	50		
UM108-LG 10	2959780	10		

Order key for UM profile covers

Pcs.	Order No.	Width Cover [mm]	/ Length [cm]
1	28 54 89 8	/ AU73	/ 8,4
		AU60	,

General information on UM 72, UM 100/108

Use the same housing accessory elements (lateral elements, U-shaped profile covers, etc.) for the UM 100 profile as for the UM 108 profile

Instead of the foot elements and the lateral elements, two lateral elements with foot can be used. Corresponding screws are supplied as standard with lateral elements.

Ordering example:

For an 87.5 x 107.5 x 1.5 PCB, the profile length is 8.4 cm.

The following parts are required for a module including the cover: 1 x Press-drawn section

Order key 2952020/UM108/8,4/GN6021

1 x UM profile cover

Order key 2854898/U73/8,4

1 x Lateral element with foot, left

Order No. 29 59 73 5

1 x Lateral element with foot, right

Order No. 29 59 71 9

Ordering information:

The PCB area available for assembly is reduced by 2 mm at each edge of the press-drawn sections and on the front of the lateral elements in the tall version.

In order to determine the profile length, 0.35 cm must be subtracted from the PCB length.

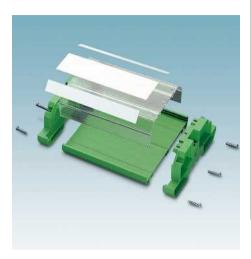
The overall length of the module, i.e., including the lateral elements, is equal to the profile length plus 0.3 cm per lateral element.

For the UM 108-A/U profile cover, specify the same length as for the UM 100/108-PROFIL... press-drawn section.

A minimum profile length of 3 cm is required to ensure assembly.

Profile racks and adapters

UM profile panel mounting base



The UM 122 press-drawn section is particularly suitable for the installation of bulky industrial electronics.

Very small UM 122-LG 13 modules, measuring 13 x 127.5 mm, can be created by snapping on two side elements. The pressdrawn section is manufactured to the required length and is available in lengths up to 100 cm.

By using the UM 122-A/U 92 profile cover, shock and dust-proof electronic modules can be created. The cover can be cut to suit your requirements and can be labeled with the AP-ES insert strips using the grooves inside. To prevent the cover from being unintentionally removed, a seal can be integrated.

Further advantages:

- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
- A host of options for external conductor connection, see chapter COMBICON control

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

Order information for UM 122

In order to determine the profile length, 0.95 cm must be subtracted from the PCB length.

The length of the cover corresponds to the PCB length minus 0.18 cm

The overall length of the module, i.e. including the side elements, corresponds to the profile length plus 1.35 cm per side element. A minimum profile length of 3 cm is required to guarantee mount-

The printed circuit board area available for components is reduced by 2 mm at the edges of the profiles and on the front of the side el-

The profile cover must be chosen at 0.77 cm longer than the drawn

Information concerning the housing:

PVC profile, inflammability class V0 (UL 94).

Polyamide PA side elements, inflammability class V0 (UL 94).

Profile cover PC, inflammability class V2 (UL 94)

1) To define the profile length and width, please observe the order



For 122 mm wide PCBs

Type of housing Electronic housings

Description
Drawn section
Fixed length 100 cm
Cut to length according to customer specifications ¹)
Side element with foot, 5 mm wide, right hand side, for mounting NS 32 or NS 35
Side element with foot , 5 mm wide, left hand side, for mounting on NS 32 or NS 35
13 mm wide module, consisting of two side elements, PCB dimensions: 11.7 x 122 mm
Side element, with screw fixture to attach cover UM 122 to NS 35
U profile cover, for UM 122, 92 mm wide
Foot element, for UM 122 profile housing

Phoenix module marker carrier, for marking modules and PCBs, for hole diameters 3.9 to 4.1 mm, thickness of the housing wall or
PCB: 1.5 to 2.0 mm, lettering field: 29.8 x 8 mm

Insert strips, for group marking, for sliding into the cover profile AP 2 and AP 3, cardboard, lettering field: $35\,x\,500$ mm

Marker pen, not refillable, for manual marking, line thickness

Technical data

PVC / V0					
Ordering data	Ordering data				
Туре	Order No.	Pcs. / Pkt.			
UM122-PROFIL 100CM UM -PROFIL	2914576 2952020	1 1			
UM122-SEFE/R	2908786	10			
UM122-SEFE/L	2908773	10			
UM122-LG 13	2908809	10			
UM122-SEMFE-A92	2909442	10			
UM122-A/U92	2909455	1			
UM122-FE	2909471	10			
Accessories					
РМВ	1004364	50			

Accessories		
РМВ	1004364	50
AP-ES	5022685	10
B-STIFT	1051993	10

Profile racks and adapters

The UM... profile panel mounting bases are available in the following fixed lengths:

Description	Туре	Order No.	Pcs. Pkt.
Design width 25 mm Fixed length 100 cm	UM 25-PROFIL 100 CM	29 15 79 5	1
Design width 45 mm Fixed length 100 cm	UM 45-PROFIL 100 CM	29 14 55 0	1
Design width 72 mm Fixed length 100 cm	UM 72-PROFIL 100 CM	29 07 58 3	1
Design width 100 mm Fixed length 100 cm	UM 100-PROFIL 100 CM	29 14 56 3	1
Design width 108 mm Fixed length 100 cm	UM 108-PROFIL 100 CM	29 07 52 5	1
Design width 122 mm Fixed length 100 cm	UM 122-PROFIL 100 CM	29 14 57 6	1

Profile racks and adapters

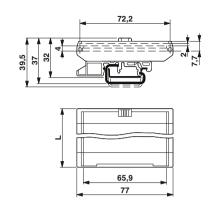
UMK plug-in module panel mounting

The compact UMK custom circuit modules are used for individually constructing simple adaptation and interconnection functions as well as comprehensive electronic circuits that can be installed on DIN rails. They comprise various single elements with different dimensions and functions.

Depending on the desired module size and the space requirement, various individual elements are linked together into one module. The UMK base elements are available in widths of 11.25 mm, 22.5 mm and 45 mm. Two side elements with a width of 11.25 mm each produce – when engaged – the smallest module of 22.5 x 77 mm. Adding together base elements of various widths results in the particular module dimension required. One or more foot elements are provided depending on the module size.

The advantages are:

- Fast assembly due to the pluggable module principle. The tight engagement of the individual elements ensures that they are securely connected
- Thanks to the universal foot, the modules snap onto commercially available EN DIN rails
- The mounting flange enables mounting directly on the wall
- The modules can be marked using the marking grooves in the side element as well as with the Phoenix Contact module marker PMB, which snaps into a hole (4 mm Ø) in the PCB
- For a host of options for external conductor connection, see chapter on COMBICON control





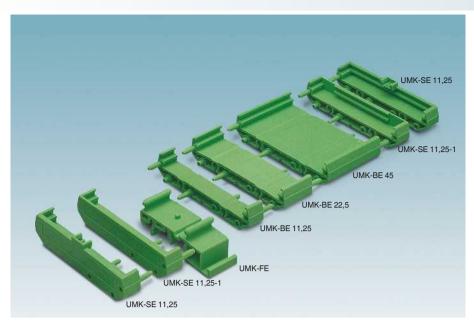
97

Type of housing	
Electronic housings	

Description
Side element, 11.25 mm wide, with marker groove
Side element, 11.25 mm wide, without marker groove
Base element, 11.25 mm wide
Base element, 22.5 mm wide
Base element, 45 mm wide
Foot element, for mounting on a NS 32 or NS 35, can be inserted into base and side element
Mounting flange, for mounting directly on the wall

Polyamide / V2					
Ordering data					
Туре	Order No.	Pcs. / Pkt.			
UMK-SE 11,25	2970002	10			
UMK-SE 11,25-1	2970442	50			
UMK-BE 11,25	2971535	10			
UMK-BE 22,5	2970028	10			
UMK-BE 45	2970015	10			
UMK-FE	2970031	10			
UMK-BF	2976077	50			

Technical data



Assembly of the UMK universal modules

PCB dimensions [mm]	Module width L[mm]	Side element UMK-SE	Base element UMK-BE 11,25	Base element UMK-BE 22,5	Base element UMK-BE 45	Foot element UMK-FE
20.00 x 72 x 1.5	22.50	2	-	-	-	1
31.25 x 72 x 1.5	33.75	2	1	-	-	1
42.50 x 72 x 1.5	45.00	2	-	1	-	2
53.75 x 72 x 1.5	56.25	2	1	1	-	2
65.00 x 72 x 1.5	67.50	2	-	-	1	2
76.25 x 72 x 1.5	78.75	2	1	-	1	2
87.50 x 72 x 1.5	90.00	2	-	1	1	2
98.75 x 72 x 1.5	101.25	2	1	1	1	2
110.00 x 72 x 1.5	112.50	2	-	-	2	2
121.25 x 72 x 1.5	123.75	2	1	-	2	2
132.50 x 72 x 1.5	135.00	2	-	1	2	2
143.75 x 72 x 1.5	146.25	2	1	1	2	3
155.00 x 72 x 1.5	157.50	2	-	-	3	3
166.25 x 72 x 1.5	168.75	2	1	-	3	3
177.50 x 72 x 1.5	180.00	2	-	1	3	3

Note on printed circuit board assembly:

The area that can be equipped is reduced once by 3 mm at the edges of the base elements and by 1.6 mm at the front of the side elements.

Profile racks and adapters

UM plug-in module panel mounting

The UM universal modules are suitable for accommodating one printed circuit board for the construction of individual electronic circuits, e.g. programmable controls. They comprise individual elements with various dimensions and functions. By arranging the individual base elements in a row, the printed circuit board surface can be multiplied. Metal pins engage the individual base elements to form a sturdy unit. The various base elements are available with or without ribs to support the printed circuit board. Depending on the module size, one or more base elements can be fitted with a snap foot, which easily engages on EN DIN rails.

The side elements close the aligned base elements on both sides and are available in four designs:

- The UM-SE side element
- The UM-SE-A 60 high side element for 60 mm wide U-shaped covers and
- The UM-SE-A73/N low side element for 73 mm wide U-shaped covers
- The UM-SE-A 73 high side element for 73 mm wide U-shaped covers

The high lateral elements are available with or without a guide slot for the mechanical fixing of PCBs arranged perpendicular to the base board.

The length of the transparent U-shaped covers is decided on a case-to-case basis. A comprehensive product range is available for the conductor connection. See the COMBICON control chapter.

Information concerning the housing: U-profile cover UM-A/U73... made of PVC/HB (UL 94) U-profile cover UM-A/U73-HT CM made of PC/V0 (UL 94) U-profile cover UM-A/U N73 CM made of PC/V0 (UL 94)

1) Please indicate the desired length in [cm]



With ribs for mechanical PCB support

97

	Technical dat	a	
Time of housing	Toommour du		
Type of housing Electronic housings	Polyamide / V0		
	Ordering dat	•	
	Ordering dat	a	1
Description	Туре	Order No.	Pcs. / Pkt.
Universal module, individual assembly, consisting of: Base element with snap-on foot, for mounting on NS 35 or NS 32 DIN rail.			
With ribs, L = 35 mm Without ribs, L = 35 mm	UM-BEFE 35	2955564	10
Without snap-on foot, with ribs, L = 35 mm Without ribs, L = 35 mm, without snap-on foot	UM-BE 35	2955577	10
With ribs, $L = 16.5$ m, without snap-on foot Without ribs, $L = 16.5$ mm, without snap-on foot	UM-BE 16,5	2956903	50
Connection pin, brass, for engaging several base elements to form one unit, 4 units necessary per element			
	UM-VS	2955580	50
Side element, for closing both ends of the base element UM-BEFE			
	UM-SE	2955593	10
Side element, flat version for 73 mm wide profile cover			
	UM-SE-A73/N	2962256	10
	Accessories	;	
Side element, tall version			
For 60 mm wide U-shaped cover for 73 mm wide U-shaped cover	UM-SE-A60 UM-SE-A73	2955616 2955603	10 10
Side element, high profile, with guide grooves for vertically arranged printed circuit boards			
For 60 mm wide U-shaped cover	UM-SE-A60-R	2956893	10
for 73 mm wide U-shaped cover U profile cover, tall version, PVC. Please note the order key.	UM-SE-A73-R	2956741	10
o prome cover, tain version, i vo. i lease note are order key.			
U-shaped cover, tall version, high-temperature resistant PC	UM-A/U CM	2854885	1
material ¹)			
	UM-A/U 73-HT CM	2853310	1
U-shaped cover, flat version, high-temperature resistant PC material, 73 mm wide (internal dimensions 69 mm)¹)	UM-A/U N 73 CM	2706852	1
Transparent hood , for one base element, UM-BEFE (with 2 UM-SE) snaps on, 60 mm wide, 50 mm high	им-н	2955441	10
		1	

Profile racks and adapters



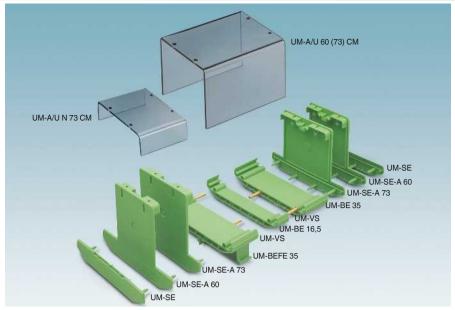
Without ribs

*9*1

	Technical data	
Polyamide / V0		

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
UM-BEFE 35-1	2956660	10			
UM-BE 35-1	2956657	10			
UM-BE 16,5-1	2958053	50			
UM-VS	2955580	50			
UM-SE 1	2958147	10			
UM-SE-A73/N	2962256	10			

Accessories					
UM-SE-A60 UM-SE-A73	2955616 2955603	10 10			
UM-SE-A60-R UM-SE-A73-R	2956893 2956741	10 10			
UM-A/U CM	2854885	1			
UM-A/U 73-HT CM	2853310	1			
UM-A/U N 73 CM	2706852	1			
им-н	2955441	10			

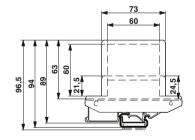


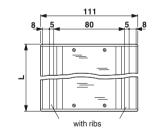
Assembly of UM modules - base element with ribs

PCB dimensions [mm]	Module length L [cm]	Base element UM-BEFE 35 UM-BEFE 35-1	Base element UM-BE 35 UM-BE 35-1	Base element UM-BE 16,5 UM-BE 16,5-1	Lateral element UM-SE A 60 UM-SE A 73 UM-SE-A 73	Length [cm] of U-shaped profile cover UM-A/U 60(73)
38.5 x 107.5 x 1.5	4.0	1	-	-	2	3.5
55.0 x 107.5 x 1.5	5.65	1	-	1	2	5.15
73.5 x 107.5 x 1.5	7.5	2	-	-	2	7.0
90.0 x 107.5 x 1.5	9.15	2	-	1	2	8.65
108.5 x 107.5 x 1.5	11.0	2	1	_	2	10.5
125.0 x 107.5 x 1.5	12.65	2	1	1	2	12.15
143.5 x 107.5 x 1.5	14.5	2	2	_	2	14.0
160.0 x 107.5 x 1.5	16.15	2	2	1	2	15.65
178.5 x 107.5 x 1.5	18.0	3	2	_	2	17.5

Note on PCB assembly:

The area available for assembly is reduced by 3 mm at the edges of the base elements and by 1.6 mm at the front edge of the lateral elements.





Profile racks and adapters

DIN rail adapter UTA, DIN rail adapter EM-MP/SISM



The UTA universal DIN rail adapters enable devices such as power supply units or sensor/actuator boxes to be snapped onto standard DIN rails in accordance with EN 60715.

The sturdy metal design with corrosionresistant surface ensures a long service life and a secure grip even under extreme loads.

The EM-MP and SISM DIN-rail mountable mounting plates made from polycarbonate plastic are specially designed for small transformers of up to approx. 100 VA and offer additional installation space for interconnecting cables or electronic circuits.

Details concerning the dimensions of the DIN rail adapters can be found in the downloadcenter at

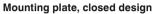
www.phoenixcontact.net/products.



Universal DIN rail adapter

	Technical data			
Type of housing				
Electronic housings	Zinc die-cast / -			
	Ordering da	ıta		
Description	Туре	Order No.	Pcs. / Pkt.	
Universal DIN rail adapter, for screwing on switchgear				
	UTA 89	2853970	5	
	UTA 107	2853983	5	
	UTA 130	2706412	5	
	UTA 136	2853996	5	
	UTA 159	2854018	5	
	UTA 184	2854021	5	
Mounting plate, enclosed design, to snap on switchgear				
Mounting plate, for screwing on switchgear (M4 fastening thread)				







Mounting plate, low design

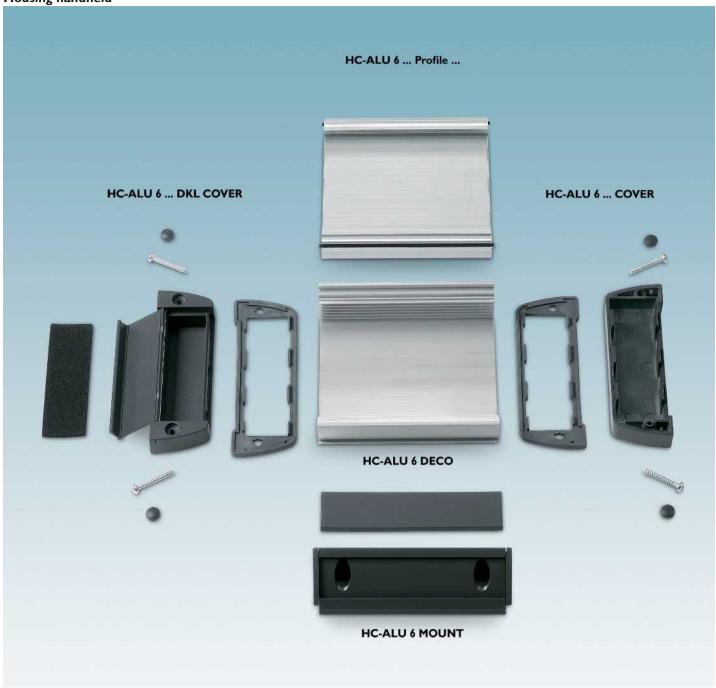


Mounting plate, flat design

Technical da	ta		Technical data		Technical data			
Polyamide fiber reinforced / V2 Ordering data			Polyamide fiber reinforced / V2 Ordering data Polyamide fiber reinforced / V2 Ordering data		·		a	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
EM-MPG 45	2944177	10	SISM 45	2942865	10			
	2011111		SISM 45 H	2940139	10			
						EM-MP 45N EM-MP 70	2943712 2942742	10 10

Handheld housings for use in the field

Housing handheld



HC-ALU handheld housings, which are made from aluminum, provide protection for your electronics against both spray water and thermal and mechanical stress in the field.

The housing is particularly suitable for temperature ranges from -40 $^{\circ}$ C to +70 $^{\circ}$ C and offers IP65 protection according to DIN EN 60529.

Handheld housings for use in the field



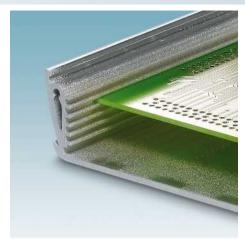
Split press-drawn section

The split housing enables the integration of elements which protrude through the front surface. Both profile halves securely latch together, making integrating a membrane keypad or display child's play.



Ergonomic design

The trapezoidal external shape of the housing improves ergonomics for the device operator. The level, smooth side of the housing also facilitates printing.



Unrestricted assembly

All PCBs have the same external dimensions and can be securely fixed in various locations in the housing. This provides the required flexibility for positioning various components or modules.



Intelligent interface

The COVERS have a 2 mm recessed surface for accommodating slides or labels. The version with mounting cover allows optional installation of plug-in connectors or sock-

For improved EMC properties, an alternative version is available with a metal-filled seal.



Individual use

The sophisticated range of accessories opens up diverse applications. Decorative strips suitable for printing can be inserted into the grooves on the side of the housing. With the matching wall fastening, the housing can be used as a wall, operation, or front plate solution.



Added value from the works

In addition to the products which can be ordered from the catalog, we offer an extensive range of additional services from special profile lengths through additional mechanical processing and printing, and even membrane keypads.

Handheld housings for use in the field

HC-ALU 6... handheld aluminum profile housing



Aluminum profile Width: 53.5 mm



Aluminum profile Width: 78 mm

	Ordering dat	a		Ordering dat	a	
Description	Туре	Order No.	Pcs./ Pkt.	Туре	Order No.	Pcs./ Pkt.
Silver split profile, including cord seal						
Length 100 mm Length 150 mm Length 200 mm Length 1000 mm	HC-ALU 6-53,5 PROFILE 100 HC-ALU 6-53,5 PROFILE 150 HC-ALU 6-53,5 PROFILE 200 HC-ALU 6-53,5 PROFILE 1000	2200887 2200888 2200889 2200890	1 1 1	HC-ALU 6-78 PROFILE 100 HC-ALU 6-78 PROFILE 150 HC-ALU 6-78 PROFILE 200 HC-ALU 6-78 PROFILE 1000	2200892 2200893 2200894 2200895	1 1 1
End cover, graphite gray, with screws and seal						
End cover, graphite gray, with hinged flap, screws and seal	HC-ALU 6-53,5 COVER GY	2200891	1	HC-ALU 6-78 COVER GY	2200896	1
Life cover, graphile gray, with hingee hap, screws and sear						
	HC-ALU 6-53,5 DKL-COVER GY	2201121	1	HC-ALU 6-78 DKL-COVER GY	2201122	1
	Accessories	3		Accessories		
EMC seal, black	110 ALUA 50 5 05 AL 5MO	202002	40	UO ALUI O 70 OFAL EMO	0000000	40
Decorative strip, dark gray, length = 98.4 mm	HC-ALU 6-53,5 SEAL EMC HC-ALU 6 DECO 100 GY	2200907 2200914	10 10	HC-ALU 6-78 SEAL EMC HC-ALU 6 DECO 100 GY	2200908 2200914	10 10
Decorative strip, dark gray, length = 148.4 mm						
	HC-ALU 6 DECO 150 GY	2200915	10	HC-ALU 6 DECO 150 GY	2200915	10
Decorative strip , dark gray, length = 198.4 mm	HC-ALU 6 DECO 200 GY	2200916	10	HC-ALU 6 DECO 200 GY	2200916	10
Panel fastening, including cover caps, for 100 mm profile section, graphite gray	HC-ALU 6 MOUNT 100 GY	2200911	2	HC-ALU 6 MOUNT 100 GY	2200911	2
Panel fastening, including cover caps, for 150 mm profile section, graphite gray	HC-ALU 6 MOUNT 150 GY	2200912	2	HC-ALU 6 MOUNT 150 GY	2200912	2
Panel fastening, including cover caps, for 200 mm profile section, graphite gray	HC-ALU 6 MOUNT 200 GY	2200913	2	HC-ALU 6 MOUNT 200 GY	2200913	2
Screwdriver set, Torx® with drill bit, 6-part, incl. rack, contents: TX 8 x 60; TX 10 x 80; TX 15 x 80; TX 20 x 100; TX 25 x 100; TX 30 x 115	SF-TXH SET	1212538	1	SF-TXH SET	1212538	1
Bit screwdriver set with quick-action chuck, 89 mm long slotted/cross-recessed (PZ and PH)/hex / Torx $^{\circ}$ bits, 17-part, in folding belt pouch, contents: PH 1,2,3 x 89; PZ 1,2,3 x 89; SL 1.5 x 5.5 x 89; TX 10-30 x 89; SW 3,4,5,6 x 89						
	SF-M SET	1212543	1	SF-M SET	1212543	1







Aluminum profile Width: 161 mm

Ordering da	ta		Ordering da	ta	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
HC-ALU 6-100,5 PROFILE 100 HC-ALU 6-100,5 PROFILE 150 HC-ALU 6-100,5 PROFILE 200 HC-ALU 6-100,5 PROFILE 1000	2200897 2200898 2200899 2200900	1 1 1	HC-ALU 6-161 PROFILE 100 HC-ALU 6-161 PROFILE 150 HC-ALU 6-161 PROFILE 200 HC-ALU 6-161 PROFILE 1000	2200902 2200903 2200904 2200905	1 1 1 1
HC-ALU 6-100,5 COVER GY	2200901	1	HC-ALU 6-161 COVER GY	2200906	1
HC-ALU 6-100,5 DKL-COVER GY	2201123	1			
Accessorie	s		Accessorie	s	
HC-ALU 6-100,5 SEAL EMC HC-ALU 6 DECO 100 GY	2200909 2200914	10 10	HC-ALU 6-161 SEAL EMC HC-ALU 6 DECO 100 GY	2200910 2200914	10 10
HC-ALU 6 DECO 150 GY HC-ALU 6 DECO 200 GY	2200915 2200916	10 10	HC-ALU 6 DECO 150 GY HC-ALU 6 DECO 200 GY	2200915 2200916	10 10
HC-ALU 6 MOUNT 100 GY	2200911	2	HC-ALU 6-161 MOUNT 100 GY	2201327	2
HC-ALU 6 MOUNT 150 GY	2200912	2	UM-ALU 6-161 MOUNT 150 GY	2201332	2
HC-ALU 6 MOUNT 200 GY	2200913	2	UM-ALU 6-161 MOUNT 200 GY	2201334	2
SF-TXH SET	1212538	1	SF-TXH SET	1212538	1
SF-M SET	1212543	1	SF-M SET	1212543	1

Technical data

Notes on power dissipation

Power dissipation values should be used as a guide only. They are largely dependent on:

- The PCB arrangement in the housing
- The position of components (as a source of heat)
- The number of assembled PCBs in the housing
- The mounting position of the housing

Reduction factor depending on the ambient temperature

Since the maximum permissible power dissipation decreases as the ambient temperature increases, the listed reduction factor (K_I) must be taken into account when calculating the permissible power dissipa-

Formula for calculating the power dissipation depending on the ambient temperature $P_{vtu} = P_{vt} \times K_I$ **Explanations:**

 $P_v = Power dissipation$ t., = Ambient temperature $t = 20^{\circ}C$ K_1 = Reduction factor

Example:

Power dissipation at 40°C $P_v40^{\circ}C = P_v20^{\circ}C \times K_i = 10.8 \text{ W} \times 0.81$ = 8.75 W

Reduction factor for CM compact component housing

Ambient temperature [°C]

	20	30	40	50	60
K _I	1	0.83	0.65	0.48	0.33

Reduction factor for ME/ME BUS/ME TBUS/ME MAX modular component housing

Ambient temperature [°C]

	20	30	40	50	60
K _I	1	0.91	0.81	0.7	0.57

Reduction factor for EG beaker-type component housing

Ambient temperature [°C]

	20	30	40	50	60
Kı	1	0.80	0.62	0.47	0.30

Reduction factor for UEGH universal component housing

Ambient temperature [°C]

	0	10	20	30	40	50	60
K _I	1.15	1.08	1	0.91	0.81	0.71	0.59

Reduction factor for UEG-EU universal component housing

Ambient temperature [°C]

	20	30	40	50	60
K_{l}	1	0.87	0.75	0.58	0.49

Reduction factor for UEGM universal component housing

Ambient temperature [°C]

	20	30	40	50	60	70	80
Kı	1	0.8	0.64	0.51	0.41	0.33	0.26

Reduction factor for UEG universal component housing

Ambient temperature [°C]

	20	30	40	40	60	70	80
Kı	1	0.78	0.61	0.48	0.37	0.29	0.23

Reduction factor for EFG single component housing

Ambient temperature [°C]

	20	30	40	50	60
Kı	1	0.90	0.78	0.66	0.55

Reduction factor for EMG system component housing

Ambient temperature [°C]

	20	30	40	50	60
K _I	1	0.8	0.64	0.51	0.41

Reduction factor for BC installation component housing

Ambient temperature [°C]

	20	30	40	50	60	70
Kı	1	0.84	0.72	0.60	0.48	0.38



Plug-in card blocks and socket strips according to DIN 41617 and IEC 60603-2/DIN 41612

SKBI plug-in card blocks

SKBI plug-in card blocks for plug-in connectors according to DIN 41617 and IEC 60603-2/DIN 41612 can be used to mount single or double European-format cards at any location in the control cabinet and wire them easily via a screw connection. The PCB is reliably supported in the rugged insulating housing and is automatically held in position by engagement catches which prevent it from falling out. The easy-to-operate ejectors make releasing the PCB easy, even where space is limited.

SFLY/FRONT-SFL screw-type socket

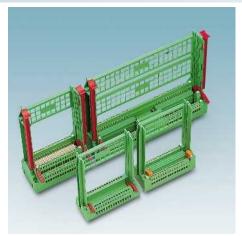
The SFLY and FRONT-SFL socket strips with screw connection at the rear have been developed for use in 19" racks. They are suitable for D and F design 32-pos. pin strips according to IEC 60603-2/ DIN 41612. The special feature of the Yshaped SFLY screw-type socket strip is the angled arrangement of the terminal blocks. In addition to user-friendly handling and a clear view during connection, the conductors can be laid in this "cable duct" without taking up any additional space.

Socket strip with spring-cage connection FRONT-ZFL 1,5/...

The FRONT-ZFL 1,5 D32 socket strip with a spring-cage connection at the rear has been specially developed for use in 19" racks. The installation dimensions and the marking of the individual terminal points meet the requirements of IEC 60603-2/ DIN 41612 for design D32.

General	
SKBI plug-in card blocks For plug-in connectors according to DIN 41617 and IEC 60603-2/DIN 41612	776
SFLY screw-type socket strips For pin strips according to IEC 60603-2/DIN 41612	788
Socket strips with FRONT-ZFL spring-cage connection For plug-in connectors according to IEC 60603-2/DIN 41612 FRONT-ZFL socket strip	789
FRONT-SFL screw-type socket strips	790

General



General

Industrial electronics are a fixed component of conventional control engineering. PCBs in 100 x 160 mm European format are primarily used here.

Increased safety requirements and the higher density of components and connections are speeding up the trend toward the indirect contacting principle using pin strips according to DIN 41617 and IEC 60603-2/DIN 41612.

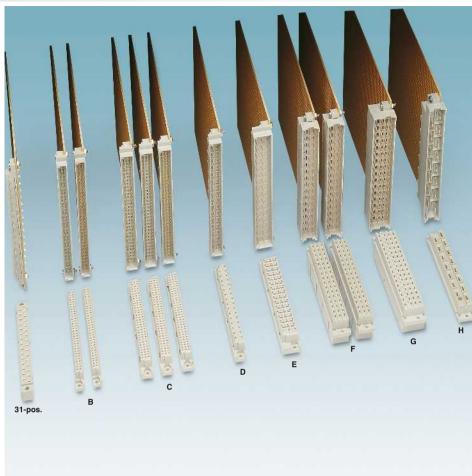
Plug-in cards are usually grouped together in the electronic racks of 19" cabinets. Although these types of racks are practical for many PCBs, they are expensive:

- If only one, two or three cards are installed and connected.
- If the PCB is distributed, thereby saving wiring in the control cabinet.
- If older systems are later modernized by adding one or two electronic cards.

Racks are expensive, bulky, and can only be accessed from the rear or with the aid of a complex swing frame. In addition, connections can often only be made with the Wire-Wrap® or TERMI-POINT® connection technologies, which are not suitable for heavy currents.

These disadvantages are overcome by Phoenix Contact SKBI plug-in card blocks. They can be used to mount single or double European-format cards at any location in the control cabinet and wire them easily via a screw connection.

The PCB is reliably supported in the sturdy insulating housing and is automatically held in position by engagement catches which protect it from vibrations. The easyto-operate ejectors make releasing the PCB easy, even where space is limited.



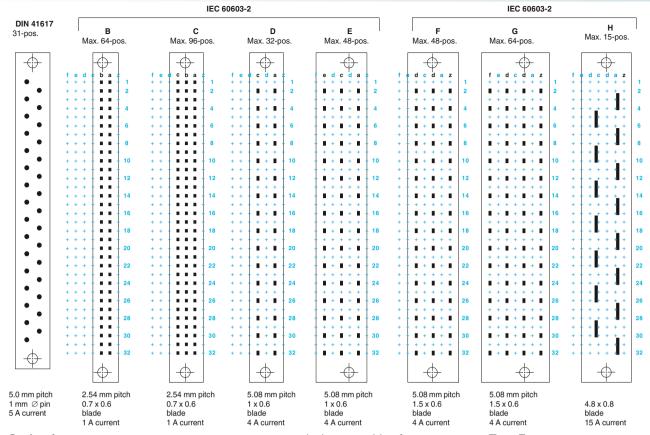
Plug-in connectors according to **DIN 41617 and IEC 60603-2/DIN** 41612

With the introduction of the 100×160 mm European format, the 31-pos. pin strip according to DIN 41617 was commonly used at the beginning of the 1960s as an indirect plug-in connector. The exposed, round pins in a metric 5 mm zigzag arrangement are typical of these connectors.

The rapid developments in industrial electronics, i.e., the increasing packing density of electronic components on the PCB, required greater numbers of contacts. Moreover, safety requirements were designed for increased protection of the contact pins against mechanical damage and contamination. This led to the development of the plug-in connector according to IEC 60603-2/DIN 41617.

All types in this range are based on a pitch of 2.54 mm (one tenth of an inch). The seven vertical rows are marked z to f, the individual pins of the lines are marked 1 to 32 from top to bottom. All contacts are goldplated. The standards also require that plugin connectors consisting of pin and socket strips and made by different manufacturers should be compatible with one another.

Over time, two types with different contact assignments have emerged:



Series 1

Series 1 plug-in connectors are available both as a high-position version with closely spaced contacts and 1 A current carrying capacity, and (for industrial power electronics) with a smaller number of positions, a large 5.08 mm contact pitch, and contacts capable of carrying up to 4 A.

Type **B**

This 64-pos. plug-in connector results from the complete use of rows a and b. The contacts are dimensioned for a current carrying capacity of 1 A. The position spacing means that these connectors can be used for voltages up to 125 V according to DIN VDE 0110/Gr. B. In the 32-pos. version, only the even-numbered positions are used.

Type C

Adding row c produces this 96-pos. plugin connector. If only the two outer rows, a and c, are used, the alternative type, C 64, results.

If this is further reduced to just the evennumbered positions of rows a and c, type C 32 with a 5.08 mm horizontal and vertical spacing of the 1 A contacts results. A nominal voltage of 250 V is thereby achieved according to DIN VDE 0110/Gr. C.

Type **D**

This connector has the same dimensions and the same contact arrangement (evennumbered positions in rows a and c) as type C 32. The only difference is the reinforced

contacts, which are capable of carrying a current of up to 4 A.

Type **E**

Adding rows d and e to type D 32 results in the 48-pos. connector with 4 A contacts with 5.08 mm pitch. This means that all even-numbered positions in rows a, c, and e are used.

Series 2

For series 2 plug-in connectors, the pitch of the rear connections in both directions is 5.08 mm. The row spacing on the plug-in side is just 3.81 mm. In addition, the creepage distances to ground are increased by raising the housing at the rear, resulting in a different wiring level from that of series 1.

The contacts are all capable of carrying up to 4 A. For this reason, series 2 plug-in connectors are primarily used in industrial power electronics.

The fixing hole is almost exactly in the center of the strip. The trick to this is that another contact row, marked z, is added in front of row a. (This comes from regarding the alphabet as a closed ring and counting backwards from a.)

Type **F**

In addition to the complete 48-pos. design which uses all even-numbered positions in rows z, b, and d, the DIN standard also includes a partially assembled 32-pos. version in rows z and b. Occasionally, to ensure larger mutual insulation distances, the positions in rows z and d may be used.

Type **G**

This type results from adding pitch rows e and f, while still using only the even-numbered positions.

Type H

These 15-pos. high-current strips have the same dimensions as types C and F. However, they are distinguished by a different plug-in geometry and amplified contacts with a current carrying capacity of 15 A.

Other types

In addition to the strips equipped with the same type of contacts, there are mixed types, e.g., H 7/F 24, shortened versions such as C 1/2, and inverted type R. All these, however, play a secondary role in practical industrial applications.

More details available on request.

SKBI plug-in card blocks

31-pos. plug-in card block for European-format cards with indirect connection in accordance with DIN 41617

PCBs with 31-pos. connectors in accordance with DIN 41617 with the characteristic zig-zag layout of the round pins are still widely used.

In the case of the SKBI 31 plug-in card block, the pins make contact with gold-plated fork springs, which are floating, i.e. mechanically decoupled from the terminal point. This makes the contact resistance very stable and lower than 2 m Ω .

In order to prevent incorrect insertion of the PCBs and the plug-in card blocks, specific contact pins are cut off and the corresponding contact holes are closed with CS/SKBI coding pins.



31-pos., in acc. with DIN 41617

Pcs./

10

100

10

Order No.

2201519

2261009

2204082

1205053



	Technical data
General data	
Pitch	5 mm
Pin diameter	1.00 mm
Voltage	250 V
Current	5 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm 0.6 Nm
Connection data solid / stranded / AWG	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12

CS-SKBI

SZS 0.6X3.5

		Ordering data	a
Description	Туре		(
Plug-in card block, 31-pos., for indirect connection in accordance with IEC 60603-1/DIN 41617, including guide rails, engagement catches and ejector, with standardized marking on both connection sides, as well as fixing screws M4			
	SKBI 31		
		Accessories	
Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail			
	SF-SKBI 31/32		
Coding pin, plastic, is subsequently inserted into a contact of the SKBI, color: Red			

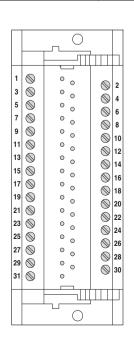
Screwdriver

Blade: 0.6 x 3.5 x 100 mm, length: 181 mm

170	129		
25,5	4,2	.5	

0000000000000000

105 112



Plug-in card blocks and socket strips according to DIN 41617 and IEC 60603-2/DIN 41612

Plug-in card blocks

SKBI plug-in card blocks

32-pos. plug-in card blocks for European-format cards with indirect connection in accordance with IEC 60603-2/ **DIN 41612**

The three blocks in this series permit insertion of PCBs with pin strip designs C, D, and F in accordance with IEC 60603-2/DIN 41612. The blocks are labeled according to the standard and have spring-loaded engagement catches, which do not, however, act as ejectors.



32-pos., type C

Pcs./

10

100

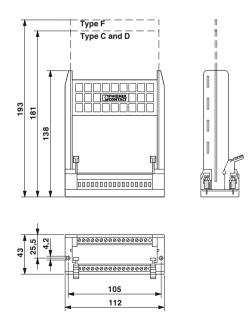
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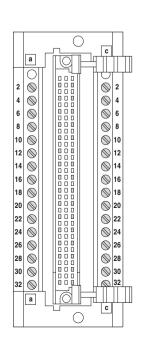


	Technical data
General data	
Pitch	5.08 mm
Knife dimensions	0.7 x 0.6 mm
Voltage	250 V
Current	1 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm 0.6 Nm
Connection data solid / stranded / AWG	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12

	Ord	lering data
Description	Туре	Order No
Plug-in card block, 32-pos., for indirect connection in accordan- with IEC 60603-2/DIN 41612, complete with guide rails and engagement catches, without ejector, with standardized marking on both connection sides, as well as M4 mounting screws		
	SKBI 32/C	226103
	Ac	cessories
Snap-on foot, for horizontal or vertical mounting of the blocks of the NS 35/7.5-DIN rail		
	SF-SKBI 31/32	2261009
Coding pin, plastic, is subsequently inserted into a contact of the SKBI, color: Red	е	

CS-SKBI











32-pos., type F, equipped in rows z and b



32-pos., type F, equipped in rows z and d

Technical data

Technical data
5.08 mm
1 x 0.6 mm
250 V
4 A
8 mm
M3
0.5 Nm 0.6 Nm
0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12

PG

МЗ

0.5 Nm ... 0.6 Nm

0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

Technical data	
08 mm	
5 x 0.6 mm	
50 V (in acc. with DIN VDE 0110/Gr.B)	
A	
mm	

	i confincai data	
5.08	mm	
1.5 x	0.6 mm	
250	V (in acc. with DIN VDE 0110/Gr.B)	
4 A		
8 mn	n	
MO		

 $0.2 \dots 4 \, \text{mm}^2 \, / \, 0.2 \dots 2.5 \, \text{mm}^2 \, / \, 24 - 12$

PG

0.5 Nm ... 0.6 Nm

Ordering data			
Туре	Order No.	Pcs. / Pkt.	
SKBI 32/D	2261054	1	
Accessorie	s		

Pcs. / Pkt.	Тур
1	SKE
'	JAL

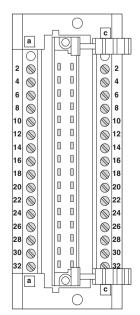
Ordering data	а	
Туре	Order No.	Pcs. / Pkt.
SKBI 32/F/ZB	2261096	1
Accessories		

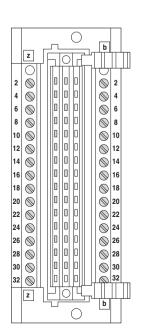
Ordering data	а	
Туре	Order No.	Pcs. / Pkt.
SKBI 32/F/ZD	2261106	1
Accessories	;	

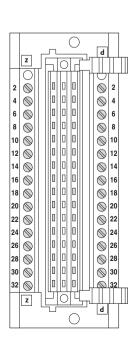
	Accessories	;	
SF-SKBI 31/32		2261009	10

SF-SKBI 31/32	2261009	10

SF-SKBI 31/32	2261009	10







SKBI plug-in card blocks

64-pos. plug-in card blocks for European-format cards with indirect connection in accordance with IEC 60603-2/ **DIN 41612**

These plug-in card blocks have doublelevel screw connection terminal block rows on both sides. The offset arrangement of the levels improves the conductor accessibility and the legibility of labels. The robust overall design of the block ensures sturdy support also for heavy PCBs. These are held in place by engagement catches with an ejector that can be operated from the front.



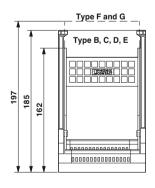
64-pos., type B

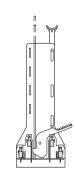


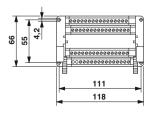
	Technical data
General data	
Pitch	2.54 mm
Knife dimensions	0.7 x 0.6 mm
Voltage	125 V (in acc. with DIN VDE 0110/Gr.B)
Current	1 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm 0.6 Nm
Connection data solid / stranded / AWG	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12
	Ordering data

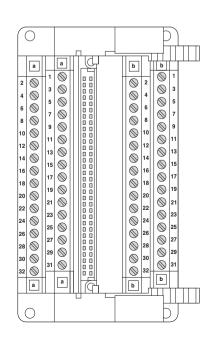
Description
Plug-in card block, 64-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized marking on both connection sides, as well as M4 mounting screws
Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail
Screwdriver Blade: 0.6 x 3.5 x 100 mm, length: 181 mm

Oracining data	u	
Туре	Order No.	Pcs. / Pkt.
SKBI 64/B64	2263023	1
Accessories		
SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10











32-pos., type C, equipped in the even numbers of positions in rows a and c



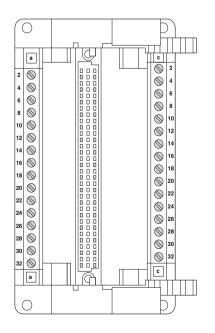
64-pos., type C, equipped in rows a and c

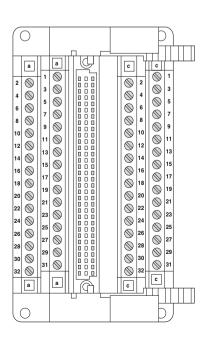




Technical data	Technical data
5.08 mm	2.54 mm
0.7 x 0.6 mm	0.7 x 0.6 mm
250 V (surge voltage category III/contamination class 2)	125 V (in acc. with DIN VDE 0110/Gr.B)
1 A	1 A
8 mm	8 mm
M3	M3
0.5 Nm 0.6 Nm	0.5 Nm 0.6 Nm
0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12

Ordering dat	а		Ordering dat	а	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
SKBI 64/C32	2265034	1	SKBI 64/C64	2263036	1
Accessories	;		Accessories	;	
SF-SKBI 64	2263007	10	SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10	SZS 0,6X3,5	1205053	10





SKBI plug-in card blocks

Plug-in card blocks for European-format cards with indirect connection in accordance with IEC 60603-2/ **DIN 41612**

These plug-in card blocks have screw connection terminal block rows on both sides. Additional marking makes it easier to connect the conductors. The robust overall design of the block ensures sturdy support for heavy PCBs as well. These are held in place by engagement catches with an ejector that can be operated from the front.



32-pos., type D, equipped in rows a and c



	Technical data
General data	
Pitch	5.08 mm
Knife dimensions	1 x 0.6 mm
Voltage	250 V (surge voltage category III/contamination class 2)
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm 0.6 Nm
Connection data solid / stranded / AWG	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12

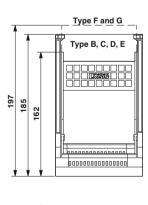
SZS 0.6X3.5

Description
Plug-in card block, 64-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized marking on both connection sides, as well as M4 mounting screws
Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail
Screwdriver Blade: 0,6 x 3.5 x 100 mm, length: 181 mm

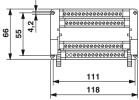
Ordering dat	а	
Туре	Order No.	Pcs. / Pkt.
SKBI 64/D32	2265050	1
Accessories	•	
SF-SKBI 64	2263007	10

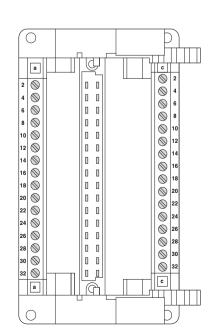
1205053

10















48-pos., type F, equipped in rows z, b, and d

PG



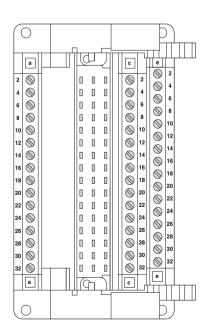
64-pos., type G, equipped in rows z, b, d, and f

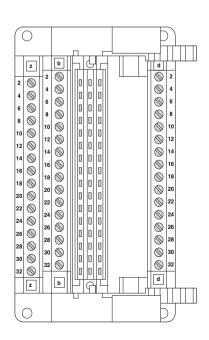
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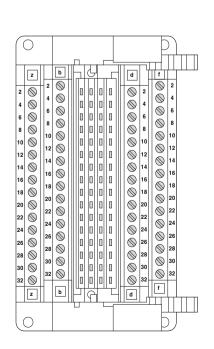


Technical data	Technical data	Technical data
5.08 mm	5.08 mm	5.08 mm
1 x 0.6 mm	1.5 x 0.6 mm	1.5 x 0.6 mm
250 V (surge voltage category III/contamination class 2)	250 V (in acc. with DIN VDE 0110/Gr.B)	250 V (in acc. with DIN VDE 0110/Gr.B)
4 A	4 A	4.4
		4 A
8 mm	8 mm	8 mm
M3	M3	M3
0.5 Nm 0.6 Nm	0.5 Nm 0.6 Nm	0.5 Nm 0.6 Nm
0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12

0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12			0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12			0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12		
Ordering data			Ordering data		Ordering data			
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
SKBI 64/E48	2264080	1	SKBI 64/F48	2264093	1	SKBI 64/G64	2263117	1
Accessories			Accessorie	s		Accessories	;	
SF-SKBI 64	2263007	10	SF-SKBI 64	2263007	10	SF-SKBI 64	2263007	10
SZS 0,6X3,5	1205053	10	SZS 0,6X3,5	1205053	10	SZS 0,6X3,5	1205053	10







SKBI plug-in card blocks

15-pos. plug-in card blocks for European-format cards with H15 high-current socket strip in accordance with IEC 60603-2/DIN 41612

With these plug-in card blocks, single 19" power supply racks, e.g. switched-mode power supply units, can be mounted at any point in the control cabinet and easily wired with a screw connection. Every position of the H 15 high-current socket strip is assigned with either two 2.5 mm² MKDS 3, or one 4 mm² MKDS 5 connection terminal block. The robust overall design of the blocks ensures sturdy support also for heavy PCBs. After insertion, these are automatically secured against vibrations with two engagement catches with an ejector that can be operated from the front.



15-pos., 2.5 mm² connection cross section

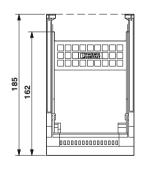
6	-	
U٠		v
6		-

	Technical data
ieneral data	
nife dimensions	4.8 x 0.8 mm
oltage	250 V (surge voltage category III/contamination class 2)
urrent	15 A
tripping length	8 mm
rew thread	M3
rque	0.5 Nm 0.6 Nm
Connection data solid / stranded / AWG	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12

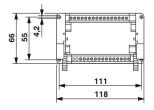
Connection data solid / stranded / AWG
Description
Plug-in card block, with MKDS 3 screw terminal blocks and connection terminal blocks, and H15 high-current socket strip for indirect control in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized marking on both connection sides, as well as M4 mounting screws
Plug-in card block, with MKDS 5 screw connection terminal blocks and H15 high-current socket strip for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized marking on both connection sides, as well as M4 mounting screws

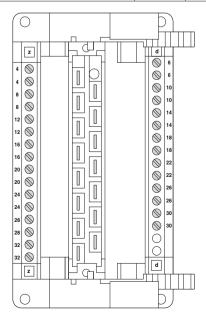
Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail
Screwdriver Blade: 0,6 x 3.5 x 100 mm, length: 181 mm

Ordering data					
Ordering data					
Туре	Order No.	Pcs. / Pkt.			
SKBI 64/H15-MKDS3	2269140	1			
Accessories	Accessories				
SF-SKBI 64	2263007	10			
SZS 0,6X3,5	1205053	10			









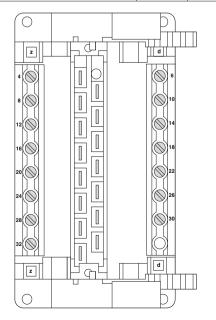


15-pos., 4 mm² connection cross section



Technical data
4.8 x 0.8 mm 500 V (surge voltage category III/contamination class 2)
15 A
8 mm
M3
0.5 Nm 0.6 Nm
0.2 6 mm ² / 0.2 4 mm ² / 24 - 10

0.2 011111 / 0.2 411111 / 24 - 10			
Ordering data			
Туре	Pcs. / Pkt.		
SKBI 64/H15-MKDS5	2269153	1	
Accessories			
SF-SKBI 64	2263007	10	
SZS 0,6X3,5	1205053	10	



Plug-in card blocks and socket strips according to DIN 41617 and IEC 60603-2/DIN 41612

Plug-in card blocks

SKBI plug-in card blocks

128-pos. plug-in card blocks for double European-format cards with indirect connection in accordance with IEC 60603-2/DIN 41612.

The desire to accommodate more and more components on one PCB has made the double European format (160 x 233.4 mm) very popular. However, with this PCB format, 19" racks become very expensive if only one, two or three PCBs must be accommodated in the control cabinet. The SKBI 128 is mounted reliably on the base with five screws, and its rigid, rugged design safely supports the valuable PCBs, which are held in place by two engagement catches with an ejector which can be operated from the front.

Notes:

Current and voltage specifications are determined by the plug-in connector used.



Different types from 64- to 128-pos.

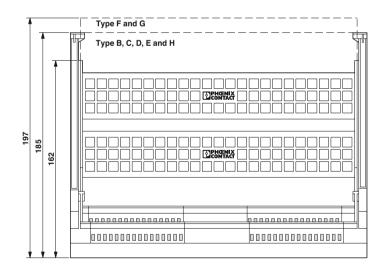


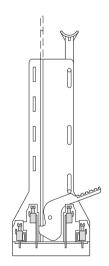
General data
Stripping length
Screw thread
Torque
Connection data solid / stranded / AWG

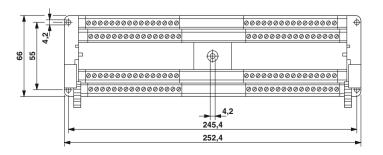
Technical data
8 mm
M3
0.5 Nm 0.6 Nm
0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12

Description
Plug-in card block, for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized marking on both connection sides, as well as M4 mounting screws with plug-in connectors

Ordering data		
Туре	Order No.	Pcs. / Pkt.
SKBI 128-B64/B64	2268028	1
SKBI 128-C32/C32	2270032	1
SKBI 128-C64/C64	2268031	1
SKBI 128-D32/D32	2270058	1
SKBI 128-E48/E48	2269085	1
SKBI 128-F48/F48	2269098	1
SKBI 128-G64/G64	2268112	1







Screw-type socket strips

Socket strip with screw connection SFLY 2,5/D 32

The SFLY 2,5/... Y-shaped socket strip with a screw connection at the rear has been developed for use in 19" racks. It is suitable for use with pin strip types D 32 or F 32 according to IEC 60603-2/DIN 41612.

The socket strips have partially gold-plated contact springs which conform to requirement category 3 in acc. with IEC 60603-2/DIN 41612. The screw connections are designed in accordance with the tension sleeve principle for 2.5 mm² connection cross sections.



32-position, type D



32-pos., type F, equipped in rows z and b

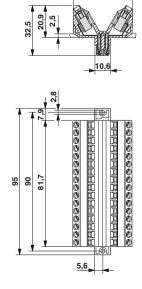


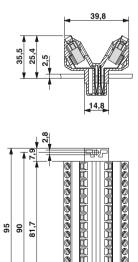
	Technical data	Technical data
General data		
Voltage	250 V	250 V
Current	4 A	4 A
Stripping length	8 mm	8 mm
Screw thread	M3	M3
Torque	0.5 Nm 0.6 Nm	0.5 Nm 0.6 Nm
Connection data solid / stranded / AWG	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12	0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12
Surge voltage category / insulating material group	-/1	-/1
Insulation material	PA	PA
Inflammability class in acc. with UL 94	V2	V2
Temperature indices (RTI/TI)	120/100	120/100

Description
Screw-type socket strip, type D, 32-position, fully equipped in rows a + c, with standardized marking on both connection sides, one 2.5 mm ² screw connection per position
Screw-type socket strip, type F, with standardized marking on both connection sides, 1 screw connection per position 2.5 mm ²
32-position, equipped in rows z + b

Ordering data		
Туре	Order No.	Pcs. / Pkt.
SFLY 2,5/D32	2285467	10

120/100		
Ordering data		
Туре	Order No.	Pcs. / Pkt.
SFLY 2,5/F32/ZB	2285506	10





Screw-type socket strips

Socket strip with spring-cage connection FRONT-ZFL 1,5/D 32

The FRONT-ZFL 1,5/D32 socket strip with a spring-cage connection at the rear has been specially developed for use in 19" racks. The installation dimensions and the marking of the individual terminal points fulfill the requirements of IEC 60603-2/ DIN 41612 for design D32.

The compact spring-cage technology allows solid and stranded conductors up to 1.5 mm² to be connected. With a nominal voltage of 250 V, currents of up to 4 A can be transmitted reliably.

When the FRONT-ZFL 1,5/D32 was being developed, care was taken to ensure clear separation between the conductor connection and the actuation opening, to permit simple and quick conductor connections. The integrated test connection with a 1 mm diameter makes it possible to constantly monitor the connected PCB.

On the plug-in card side, the socket strip has partially gold-plated contact forks that conform to requirement class 2 in acc. with IEC 60603-2/DIN 41612.



32-position, type D



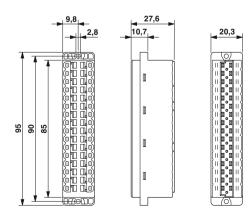
General data	
Voltage	
Current	
Stripping length	
Rated surge voltage / pollution degree	
Surge voltage category / insulating material group	
Insulation material	
Inflammability class in acc. with UL 94	
Temperature indices (RTI/TI)	
Certification data	
UL	[V] / [A] / AWG

Technical data		
250 V		
4 A		
11 mm		
4 kV / -		
-/I		
PBT		
V0		
140/120		
300 / 4 / 24 - 16		

Description
Spring-cage socket strip, type D, 32-position, fully equipped in series
a + c , one 1.5 mm ² spring-cage connection per position
Test plug, consisting of 1 mm Ø test pin, conductor length 150 mm and socket Ø 2 mm
Screwdriver Blade: 0,6 x 3.5 x 100 mm, length: 181 mm

Туре	Order No.	Pcs. / Pkt.	
FRONT-ZFL 1,5/D32	2201632	10	
Accessories			
MPS-MT 1-S	1944372	1	
	1044012		
SZF 1-0,6X3,5	1204517	10	

Ordering data



Screw-type socket strips

Screw-type socket strips **FRONT-SFL 2,5/...**

The FRONT-SFL 2,5 socket strips with a screw connection at the rear are suitable for use in 19" racks. They are available in designs D32 or F32 and F48 in accordance with IEC 60603-2/DIN 41612.

The screw connections, which can be operated from the front, are designed for a connection cross section of 2.5 mm² per position and integrated into the compact housing (3 x pitch per line) in a practical way. The partially gold-plated contact springs conform to requirement category 3 in acc. with IEC 60603-2/DIN 41612.

The asymmetrical design of the socket part ensures optimum use of the space on the printed circuit board and allows the strips to be aligned directly in the rack without gaps.

Each terminal block is marked according to the standard. Individual marking is possible using the self-adhesive strips SK 5.



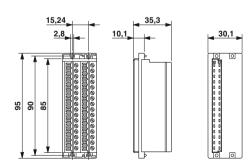
32-pos., type D, equipped in rows a and c

Ordering data



		Technical data
General data		
Voltage		250 V
Current		4 A
Stripping length		10 mm
Screw thread		M2,5
Torque		0.4 Nm 0.5 Nm
Connection data solid / stranded / AWG		0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12
Insulation material		PA
Inflammability class in acc. with UL 94		V2
Temperature indices (RTI/TI)		120/100
Certification data		
UL	[V] / [A] / AWG	250 / 4 / 30 - 12

	Ordering data		
Description	Туре	Order No.	Pcs. / Pkt.
Screw-type socket strip, type D, 32-position, fully equipped in rows a + c, with standardized marking on both connection sides, one 2.5 mm ² screw connection per position	FRONT OF LO F/POO	2005500	40
	FRONT-SFL 2,5/D32	2285593	10
Screw-type socket strip, type F, 48-position, fully equipped in rows z, b + d, one 2.5 mm ² screw connection per position			
Screw-type socket strip, type F, 32-position, partially equipped in rows z + b , one 2.5 mm ² screw connection per position			
Screw-type socket strip, type F, 32-position, partially equipped in rows z + d , one 2.5 mm ² screw connection per position			



Screw-type socket strips







32-pos., type F, equipped in rows z and b



32-pos., type F, equipped in rows z and d

91 1 us	₽

Technical data
250 V
4 A
10 mm
M2,5
0.4 Nm 0.5 Nm
0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12
PA
V2
120/100
250 / 4 / 30 - 12

	PO

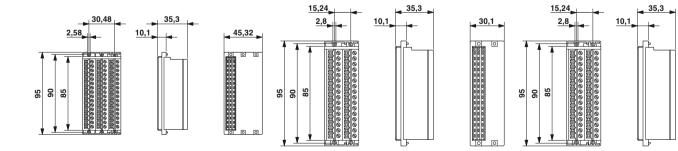
Technical data
250 V
4 A
10 mm
M2,5
0.4 Nm 0.5 Nm
0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12
PA
V2
120/100
250 / 4 / 30 - 12

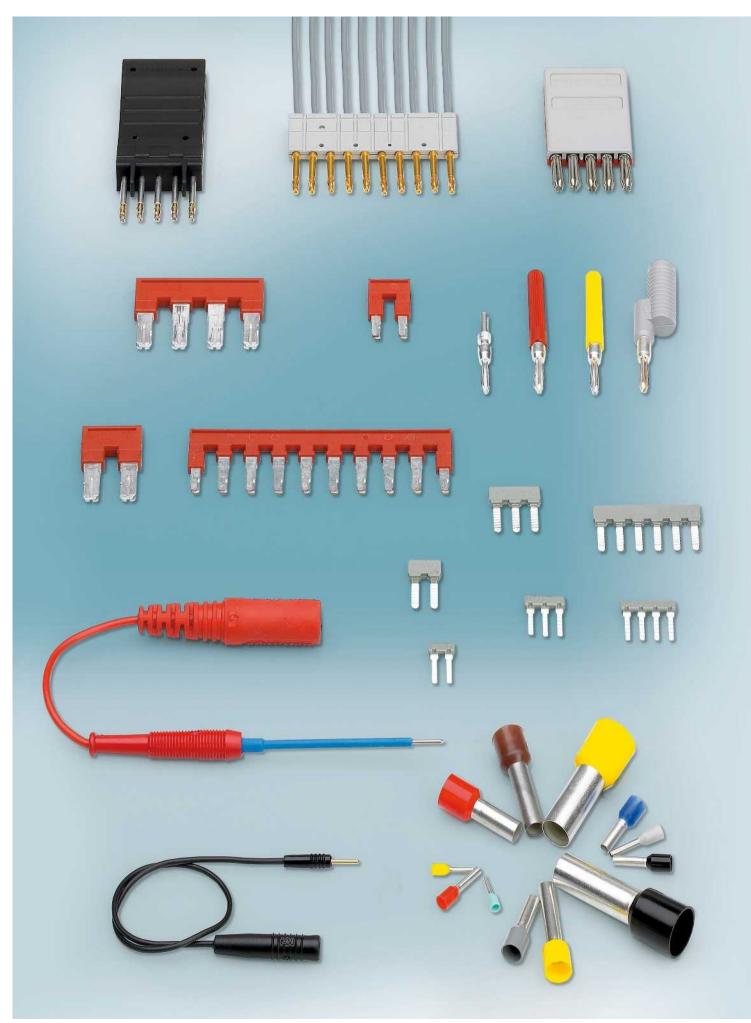
c**91**us 🕑

Technical data
250 V
4 A
10 mm
M2,5
0.4 Nm 0.5 Nm
0.2 4 mm ² / 0.2 2.5 mm ² / 24 - 12
PA
V2
120/100

250 /	4/	30	-	1:

23074730-12			230 / 4 / 30 - 12			23074730-12		
Ordering data			Ordering dat	a		Ordering dat	a	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
FRONT-SFL 2,5/F48	2285603	10						
			FRONT-SFL 2,5/F32/ZB	2285577	10			
						FRONT-SFL 2,5/F32/ZD	2285580	10





Marking material, tool, test plug

A comprehensive range of accessories is available for COMBICON PCB terminal blocks and plug-in connectors.

Test plug

Single and multi-position test plugs with spring-loaded lamellar contact enable easy and safe contacting of COMBICON plug-in connectors and PCB terminal blocks with a test connection.

Insertion bridges and fixed bridges

Bridges enable potential distribution to several terminal points or complete a circuit for testing purposes.

SK marking strips

10-section marker strips are used for the consecutive numbering of PCB terminal blocks and plug-in connectors. The self-adhesive strips are arranged in several rows on a handy card and are available in all corresponding pitches.

Tools

Press-in stamp sets are available for the correct mounting of press-in pin strips.

Other tools for using PCB terminal blocks and plug-in connectors as well as for crimping ferrules and crimp contacts can be found under the accessories listed on the relevant product pages.

General	794
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ZB/ZBF zack marker strips	804
Device marking	808
Conductor and cable marking	818
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Crimp inserts	827
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Fixed bridges	830
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Mounting flanges	836
MSTB coding tab	837
FLRP/ICV pair of guide rails	837
FKC pull-out aid	837
Dimensional drawings	838

General



Marking solutions for electronics and device production

Phoenix Contact offers marking solutions that are tailored to your requirements for clear component identification and consistent traceability in the production process.

We offer materials and printing systems that are customized to the meet the specific challenges encountered when marking:

- PCBs
- Housings
- PCB terminal blocks and plug-in connectors
- Conductors and cables

The complete marking portfolio for electronics and device production.

The data for producing the markings is sent to the relevant printer by the CLIP PROJECT marking software which is supplied as standard. Quick and easy manual data entry or user-friendly transfer from CAE systems, spreadsheet programs, and word processing programs is supported.

If you are unable to find the appropriate markers for your application in the following catalog part, please visit our e-shop or contact us directly.

In order to handle peaks in demand, for example, you can also order materials ready printed from Phoenix Contact. To do this, use the ordering option in CLIP PROJECT or order via the e-shop.

General



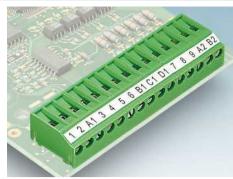
High resistance

High-quality marking materials guarantee high resistance to aggressive media and thereby ensure clear and permanent legibility



Marking after installation

Unprinted PCB terminal blocks can be marked quickly and clearly even after they have been installed using TML and SK marking strips.



Individual marking

Even very specific marking requirements such as special characters can be met with



Reliable marking

Labels that are resistant to high temperatures ensure reliable marking of components and PCBs during the production process and beyond.



Protection against static discharge

ESD-safe labels can be used to mark components and PCBs that are at risk from electrostatic discharge.



Protection against tampering

As these rating plates clearly show attempts at tampering, they cannot be reused.



Versatile use

With self-laminating labels, both round and flat-ribbon cables can be marked clearly and without abrasion. The portfolio includes various other conductor markings.



Easy and universal

The THERMOMARK printing systems together with the CLIP PROJECT software offer custom marking options for your production process. Excellent printing quality and optimum printing accuracy increase device acceptance among users.



MICROFOX ...ESD pliers are suitable for working on sensitive components, as the electrostatic energy is discharged safely by the special grip material.

SK marker cards

Self-adhesive marker strips for terminal blocks without a marker groove



- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- The markers that are supplied on rolls can be quickly and cost-effectively labeled using THERMOMARK printers
- The markers that are supplied as cards can be easily labeled using standard laser
- Ideal for marking COMBICON plug-in connectors
- Marking service: Phoenix Contact can custom-label SK markers in accordance with your requirements



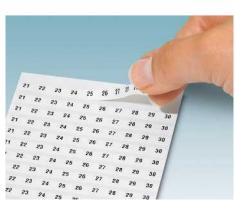
Markers labeled with 2.54 mm pitch

(General data	
- 1	Material	
	Temperature range	[°C]
١	Wipe resistance	
(Components	

Technical data	
Polyester	
-40 150	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data

Description Color	Туре	Order No.	Pcs. / Pkt.
Marker card, printed horizontally, self-adhesive, 10-section marking stripes, 14 identical decades marked with 1-10, 11-20, etc. up to 91-100, adequate for 140 terminal blocks (SK 2,54SK 3,81max. 2 characters per terminal)			
white	SK 2,54/2,8:FORTL.ZAHLEN	0804853	10
Marker card, self-adhesive, marked according to customer specifications, 14-section marker strips, max. 25-pos. marking (SKP2,54 to SKP3,81 max. 2 characters per pos.)			
white	SK 2,8 REEL P2,54 WH CUS	0825120	1
Marker card, unprinted, DIN A4 format, pitch as desired, self- adhesive, with 50 perforated marker strips, strip length of 185 mm			
white	SK U/2,8 WH:UNBEDRUCKT	0803883	10
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m			
white	SK 2,8 WH:REEL	0805205	1





Technical data		Technical da	ta		Technical data			
Polyester -40 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		Polyester -40 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			Polyester -40 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			
Ordering data			Ordering da	Ordering data		Ordering data		
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
SK 3,5/2,8:FORTL.ZAHLEN	0804073	10	SK 3,81/2,8:FORTL.ZAHLEN	0804109	10	SK 5,08/2,8:FORTL.ZAHLEN	0804280	10
SK 2.8 REEL P3.5 WH CUS	0825121	1	SK 2.8 REEL P3.81 WH CUS	0825122	1	SK 2,8 REEL P5,08 WH CUS	0825123	1
OK 2,6 HZZZ 1 6,6 WH 666	0020121	·	GR 2,6 HELL 1 6,61 HH 666	0020122		3K 2,5 NEEL 1 0,00 WH 000	0020120	
SK U/2,8 WH:UNBEDRUCKT	0803883	10	SK U/2,8 WH:UNBEDRUCKT	0803883	10	SK U/2,8 WH:UNBEDRUCKT	0803883	10

COMBICON accessories

SK marker cards

Self-adhesive marker strips for terminal blocks without a marker groove

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Marking service: Phoenix Contact can custom-label SK markers in accordance with your requirements



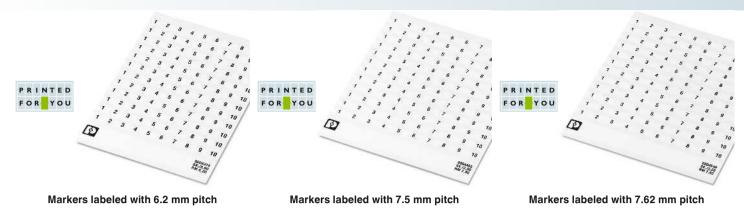
General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data					
Polyester					
-40 150					
DIN EN 61010-1 (VDE 0411-1)					
free from silicone and halogen					
Ordering data					

i echnicai dat	a	
Polyester -40 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		
Ordering data	a	
/ Туре	Order No.	Pcs. / Pkt.
SK 5,08/3,8:FORTL.ZAHLEN	0804293	10
SK 3,8 REEL P5,08 WH CUS	0825125	1

Components	tree from silicone and nalogen			tree from silicone and nalogen		
	Ordering da	ata		Ordering d	ata	
Description Color	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Marker card, printed horizontally, self-adhesive, 10-section marker strip, 12 identical decades marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks						
white	SK 5/3,8:FORTL.ZAHLEN	0804183	10	SK 5,08/3,8:FORTL.ZAHLEN	0804293	10
Marker card, self-adhesive, marked according to customer specifications, 12-section marker strips, max. 25-pos. marking per strip white	SK 3.8 REEL P5 WH CUS	0825124	1	SK 3,8 REEL P5,08 WH CUS	0825125	1
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm	SK 3,0 NEEL 13 WIT 000	0023124	,	3K 3,0 NEEL 1 3,00 WH 000	0023123	
white	SK U/3,8 WH:UNBEDRUCKT	0803906	10	SK U/3,8 WH:UNBEDRUCKT	0803906	10
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m						
white	SK 3,8 WH:REEL	0805218	1	SK 3,8 WH:REEL	0805218	1

SK marker cards



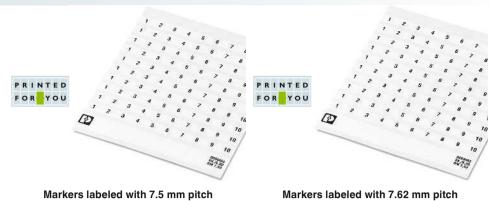
Technical data		Technical data		Technical data				
Polyester -40 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen Ordering data			Polyester -40 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen Ordering data			Polyester -40 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen Ordering data		
Туре	Order No.	Pcs. / Pkt.	Type Order No. Pcs. / Pkt. Type		Туре	Order No.	Pcs. / Pkt.	
SK 6,2/3,8:FORTL.ZAHLEN SK 3,8 REEL P6,2 WH CUS	0804374	10	SK 7,5/3,8:FORTL.ZAHLEN SK 3,8 REEL P7,5 WH CUS	0804455	10	SK 7,62/3,8:FORTL.ZAHLEN SK 3,8 REEL P7,62 WH CUS	0804549	10
SK U/3.8 WH:UNBEDRUCKT	0803906	10	SK U/3.8 WH:UNBEDRUCKT	0803906	10	SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	10	SK 3,8 WH:REEL	0805218	10	SK 3,8 WH:REEL	0805218	1

COMBICON accessories

SK marker cards

Self-adhesive marker strips for terminal blocks without a marker groove

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Marking service: Phoenix Contact can custom-label all TMT markers in accordance with your requirements



General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data					
Polyester					
-40 150					
DIN EN 61010-1 (VDE 0411-1)					
free from silicone and halogen					
Ordering data					

	Polyester -40 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		
	Ordering dat	a	
Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
10	SK 7,62/5:FORTL.ZAHLEN	0804552	10
1	SK 5,0 REEL P7,62 WH CUS	0825132	1
10	SK U/5,0 WH:UNBEDRUCKT	0803922	10
1	SK 5,0 WH:REEL	0805221	1

Technical data

Components	free from silicone and halogen			free from silicone and halogen			
	Ordering da	ıta		Ordering da	ıta		
Description Color	Туре	Order No.	Pcs./ Pkt.	Туре	Order No.	Pcs. / Pkt.	
Marker card, printed horizontally, self-adhesive, 10-section marker strip, 10 identical decades marked 1-10, 11-20 etc. up to 91-100, for example, sufficient for 100 terminal blocks							
white	SK 7,5/5:FORTL.ZAHLEN	0804468	10	SK 7,62/5:FORTL.ZAHLEN	0804552	10	
Marker card, self-adhesive, marked according to customer specifications, 10-section marker strips, max. 25-pos. marking per strip							
white	SK 5,0 REEL P7,5 WH CUS	0825131	1	SK 5,0 REEL P7,62 WH CUS	0825132	1	
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm							
white	SK U/5,0 WH:UNBEDRUCKT	0803922	10	SK U/5,0 WH:UNBEDRUCKT	0803922	10	
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m							
white	SK 5 0 WH-REEL	0805221	1	SK 5 0 WH-REEL	0805221	1	

Self-adhesive marker strips for terminal blocks without a marker groove







Markers with a strip length of up to 185 mm

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

i echnicai data	recnnicai data
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO- MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	CMS-P1-PLOTTER • Office printing systems
Polyester	Polyester
-40 150	-40 150
DIN EN 61010-1 (VDE 0411-1)	DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen	free from silicone and halogen

				neo nem emeche ana nalegen		
	Ordering data		Ordering data			
Description Color	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m						
white	SK 2,8 WH:REEL	0805205	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m						
white	SK 3,8 WH:REEL	0805218	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m						
white	SK 5,0 WH:REEL	0805221	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 7 strips, strip height of 10 mm, 1 roll = 90 m						
white	SK 10,0 WH:REEL	0812188	1			
Marker card, unprinted, DIN A4 format, pitch as desired, self- adhesive, with 50 perforated marker strips, strip length of 185 mm						
white				SK U/2,8 WH:UNBEDRUCKT	0803883	10
Marker card, unprinted, DIN A4 format, pitch as desired, self- adhesive, with 40 perforated marker strips, strip length of 185 mm						
white				SK U/3,8 WH:UNBEDRUCKT	0803906	10
Marker card, unprinted, DIN A4 format, pitch as desired, self- adhesive, with 35 perforated marker strips, strip length of 185 mm						
white				SK U/5,0 WH:UNBEDRUCKT	0803922	10

SK marker cards

Self-adhesive marker strips for terminal blocks without a marker groove



- The TML marking range offers self-adhesive marker strips for marking products that do not have a marker groove





Unlabeled

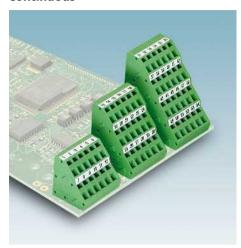
General data	
Can be printed with:	
Number of individual labels per strip	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

		Ordering data	а	
Description	Color	Туре	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted				
1 roll = 2500 strips, lettering field size: 104 x 2.8 mm	white	TML (104X2,8)R	0801832	1
1 roll = 2500 strips, lettering field size: 104 x 3.8 mm	white	TML (104X3,8)R	0801833	1
1 roll = 2500 strips, lettering field size: 104 x 5 mm	white	TML (104X5)R	0801834	1
1 roll = 1500 strips, lettering field size: 104 x 10 mm	white	TML (104X10)R	0801835	1

SK marker cards

Self-adhesive marker strips for terminal blocks without marker groove, continuous



- The TML marking range offers self-adhesive marker strips for marking products that do not have a marker groove
- The marker strips are automatically perforated or cut to the required length during the printing process



Thermal transfer for rolls



Unlabeled

General data	
Can be printed with:	
Number of individual labels per strip	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-
MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
14
Polyester
-40 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

		Ordering data	a	
Description	Color	Туре	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted, continuous				
1 roll = 30 m continuous, strip height: 2.8 mm	white	TML (EX2,8)R	0801836	1
1 roll = 30 m continuous, strip height: 3.8 mm	white	TML (EX3,8)R	0801837	1
1 roll = 30 m continuous, strip height: 5 mm	white	TML (EX5)R	0801838	1
1 roll = 30 m continuous, strip height: 7 mm	white	TML (EX7)R	0830837	1
1 roll = 30 m continuous, strip height: 10 mm	white	TML (EX10)R	0801839	1

ZB/ZBF Zack marker strip

Zack marker strip terminal marking for a vertical marker groove

- The ZB zack marker strip system is a marking solution for modular terminal blocks and electronic modules with vertical marker grooves
- Marking service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

1) 10 identically marked strips make up one packing unit (PU).





Markers for a terminal block width of 7.5 mm

General data	
Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data CMS-P1-PLOTTER -40 ... 100 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

		Ordering data		
Description	Color	Туре	Order No.	Pcs. / Pkt.
Zack marker strip, 10-section, unprinted: pack contains to label 100 terminal blocks	enough			
as above, however, large batch, sufficient for 1000 terminal blocks	white white	ZB 7,5:UNBEDRUCKT	0803948	10
Zack marker strip, printed horizontally, 10-section, with secutive numbers, e.g. 1-10, 11-20, etc. up to 91-100¹)	con-			
Zack marker strip, printed horizontally, 10-section, with numbers, e.g. 1/1/1, 2/2/2, etc. up to 100/100/100¹)	same			
	white			
Zack marker strip, 10-section, printed horizontally: with L3, N, PE 1)				
U, V, W, N, ½	white white			
Zack marker strip, printed vertically, 10-section, with co tive numbers, e.g. 1-10, 11-20, etc. up to 91-100¹)				
Zack marker strip, special printing, 10-section, divisible, ing according to customer requirements, please specify the marking with order				
	white	ZB 7,5 CUS	0824994	1
		Accessories	S	
Marker pen, refillable, for manual marking, 0.35 mm line t ness, can be refilled with CMS-INK-TR-C 5, delivered with				
		X-PEN 0,35	0811228	1
Magazine, for CMS-P1-PLOTTER		OMO D4 M/ZD	F4.44000	_

CMS-P1-M/ZB

5144699



Technical data

Markers for a terminal block width of 7.62 mm Markers for a terminal block width of 10.2 mm

Technical data

CMS-P1-PLOTTER PA V2 -40 100 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen Ordering dat			CMS-P1-PLOTTER PA V2 -40 100 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen Ordering dat			
Ordering dat	.d		Ordering dat	d		
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	
ZB 7,62:UNBEDRUCKT ZB 7,62/WH-100:UNBEDRUCKT	1054000 5060922	10 100	ZB 10:UNBEDRUCKT ZB10/WH-100:UNBEDRUCKT	1053001 5060883	10 100	
ZB 7,62,LGS:FORTL.ZAHLEN	1054233	10	ZB10,LGS:FORTL.ZAHLEN	1053014	10	
			ZB10,LGS:GLEICHE ZAHLEN	1053030	10	
			ZB10,LGS:L1-N,PE ZB10,LGS:U-N	1053412 1053438	10 10	
			ZB10,QR:FORTL.ZAHLEN	1053027	10	
ZB 7,62 CUS	0824997	1	ZB 10 CUS	0824941	1	
Accessories	3		Accessories			
X-PEN 0,35	0811228	1	X-PEN 0,35	0811228	1	
CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1	

ZB/ZBF Zack marker strip

Terminal block and module marking with flat Zack marker strip



The ZBF flat Zack marker strip is designed for marking terminal blocks, equipment and smaller modules with Phoenix Contact marker grooves.

The flat Zack marker strip is available in all common pitches as labeled or unlabeled versions.

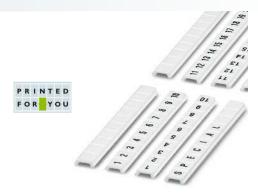
Further pitches and markings are possible on request.

1) 10 identically marked strips make up one packing unit (PU).



Components

Magazine, for CMS-P1-PLOTTER



Markers for a terminal block width of 5.2 mm

General data	
Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	

Technical data	
CMS-P1-PLOTTER	
PA	
V2	
-40 100	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data

Pcs./

Pkt.

10

10

10

10

5144709

100

Description	Color	Туре	Order No.
Zack flat marker strip, 10-section, unprinted: for individumarking with TML (101X4,2)R TR, X-PEN or CMS-P1- PLOTTER, sufficient for marking 100 terminal bloper pack			
	white white	ZBF 5:UNBEDRUCKT ZBF 5/WH-100:UNBEDRUCKT	0808642 0808668
Flat Zack marker strip, 10-section, printed horizontally: consecutive numbers, e.g. 1–10, 11–20, etc. up to 91–1001)			
	white	ZBF 5,LGS:FORTL.ZAHLEN	0808671
Zack marker strip, flat, printed horizontally, 10-section, even numbers, e.g. 2-20, 22-40, etc. up to 82-100¹)	with		
	white	ZBF 5,LGS:GERADE ZAHLEN	0810821
Zack marker strip, flat, printed horizontally, 10-section, odd numbers, e.g. 1-19, 21-39, etc. up to 81-99¹)	with		
	white	ZBF 5,LGS:UNGERADE ZAHLEN	0810863
Zack marker strip, flat, printed vertically, 10-section, with secutive numbers, e.g. 1-10, 11-20, etc. up to 91-1001)	n con-		
	white	ZBF 5,QR:FORTL.ZAHLEN	0808697
Zack marker strip, flat, special printing, 10-section, division marking according to customer requirements, please specify desired marking with order			
	white	ZBF 5 CUS	0825025
		Accessories	
Marker pen, refillable, for manual marking, 0.35 mm line the ness, can be refilled with CMS-INK-TR-C 5, delivered with			
		X-PEN 0,35	0811228
Manager to a CNAC DA DI OTTED			

CMS-P1-M/ZBF

ZB/ZBF Zack marker strip



Markers for a terminal block width of 7.5 mm

Markers for a terminal block width of 10.2 mm

Markers for a terminal block width of 15 mm

Technical data		Technical data			Technical data					
CMS-P1-PLOTTER PA V2 -40 100 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			CMS-P1-PLOTTER PA V2 -40 100 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen	PA V2 V2 -40 100 PN EN 61010-1 (VDE 0411-1) Pree from silicone and halogen Pree from silicone and halogen				PA V2 . 100 -40 100 EN 61010-1 (VDE 0411-1) DIN EN 61010-1 (VDE 0411-1)		
Ordering d	lata		Ordering da	ta		Ordering da	ıta			
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.		
ZBF 7,5:UNBEDRUCKT	0809942	10	ZBF10:UNBEDRUCKT	0809997	10	ZBF 15:UNBEDRUCKT	0811202	10		
ZBF 7,5,LGS:FORTL.ZAHLEN	0809955	10	ZBF10,LGS:FORTL.ZAHLEN	0810009	10					
		.0		00.0000						
ZBF 7,5,QR:FORTL.ZAHLEN	0809968	10	ZBF10,QR:FORTL.ZAHLEN	0810025	10					
ZBF 7,5 CUS	0825028	1	ZBF10 CUS	0825031	1	ZBF 15 CUS	0825019	1		
Accessor	Accessories			Accessories		Accessorie	es			
X-PEN 0,35	0811228	1	X-PEN 0,35	0811228		X-PEN 0,35	0811228	1		
,			·		1	·				
CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1		

Device marking

Stick-on device marking



- EML ... self-adhesive device markers have been specially developed to allow the marking of various types of operating equipment in control, system, and control cabinet engineering applications
- Precise printing quality and good adhesive properties
- If high-quality ink ribbons are used, the marking is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors are available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The EML ... materials are UL-listed
- Designation example: EML (10X4)R...

Lettering field size: 10 x 4 mm Type of packaging: roll

The THERMOMARK ROLL-ERH external media hub is required for RL rolls, see under "Printers" on page 820.

For additional label sizes, see the product area on our website at www.phoenixcontact.net/products

Can be printed with:



Thermal transfer for rolls



Unlabeled, white

97

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

Technical data

		Ordering data			
		Ordering de	atu .	1	
Description	Color	Туре	Order No.	Pcs. / Pkt.	
Labels					
10,000 labels per roll		EML (10X4)R	0815583	1	
10,000 labels per roll		EML (10X7)R	0816663	1	
2500 labels per roll					
2500 labels per roll		EML (15X9)R	0815677	1	
2500 labels per roll		EML (16,5X5)R	0816702	1	
10,000 labels per roll		EML (16X7)R	0818001	1	
2500 labels per roll		EML (17,5X8)R	0816744	1	
2500 labels per roll		EML (19X6)R	0816760	1	
2500 labels per roll		FMI (OOVO)D	0046700		
2500 labels per roll		EML (20X8)R	0816786	1	
2500 labels per roll		EMI (25 4V12 7)B	0816825	1	
2500 labels per roll 2500 labels per roll		EML (25,4X12,7)R	0010025	'	
2500 labels per roll					
2500 labels per roll					
2500 labels per roll					
1000 labels per roll					
2500 labels per roll		EML (30X20)R	0816922	1	
2500 labels per roll		EML (38X17)R	0816951	1	
1000 labels per roll		EML (40X8)R	0816980	1	
1000 labels per roll					
1000 labels per roll		EML (40X25)R	0818027	1	
1000 labels per roll		EML (51X25)R	0817028	1	
1000 labels per roll		EML (70X32)R	0817060	1	
400 labels per roll		EML (70X50)R	0817099	1	
2500 labels per roll		EML (90X5)R	0817109	1	
300 labels per roll		EML (100X40)R	0800286	1	
300 labels per roll		EML (100X73)R	0817125	1	
250 labels per roll		EML (100X90)R	0817154	1	
Labels, on large roll 10,000 labels per roll		EML (16,5X5)RL	0816113	1	
10,000 labels per roll		EWL (10,5X5)NL	0010113	'	
10,000 labels per roll		EML (25,4X12,7)RL	0816087	1	
10,000 labels per roll		EML (38,1X19)RL	0816171	1	
3000 labels per roll		EML (50,8X25,4)RL	0816184	1	
3000 labels per roll		EML (69,8X31,8)RL	0816197	1	
2500 labels per roll		(,,-,-			
1000 labels per roll					
Labels, round, 17.5 mm diameter					
2500 labels per roll	white	EML (D17,5)R	0815774	1	
Continuous labels, on large roll					
Width: 37 mm, length: 90 m	transparent	EML (37XE)RLTR	0815716	1	
Continuous labels, on large roll, length: 90 m					
Width: 100 mm, length: 90 m					
· •					







Unlabeled, silver

*9*1

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

*9*1

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Technical data

Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data			Ordering data		
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs./ Pkt.
EML (10X7)R YE EML (15X6) R YE EML (15X9)R YE EML (16,5X5)R YE EML (16,5X5)R YE EML (17,5X8)R YE EML (20X7)R YE EML (20X7)R YE EML (20X8)R YE EML (25,4X12,7)R YE	0816676 0819288 0816045 0816728 0816731 0816777 0816773 0816799	1 1 1 1 1 1	EML (15X9)R SR EML (21,5X21,5)R SR	0816032 0816812	1
EML (26,5X17,5)R YE	0816896	1	EML (26,5X7,5)R SR EML (26,5X12)R SR EML (26,5X17,5)R SR EML (26,5X18,5)R SR	0816841 0816854 0816883 0816906	1 1 1
EML (30X20)R YE	0816935	1	EML (26,5X26,5)R SR	0816919	1
EML (40X25)R YE EML (51X25)R YE EML (70X32)R YE	0816977 0817031 0817073	1 1 1	EML (40X15)R SR EML (51X25)R SR EML (70X32)R SR EML (70X50)R SR	0815729 0817002 0817057 0817086	1 1 1 1
EML (100X73)R YE	0817138	1	EML (100X40)R SR EML (100X73)R SR EML (100X90)R SR	0802697 0817112 0817141	1 1 1
EML (16,5X5)RL YE EML (17,5X8)RL YE EML (18X7)RL YE	0816126 0816139 0802733	1 1 1			
EML (76,2X6,5)RL YE	0816207	1	EML (101,6X25,4)RL SR	0815790	1
			EML (100XE)RL SR	0815787	1

Device marking

Stick-on device marking, for hightemperature applications



- White polyimide labels with high level of temperature resistance
- Continuous temperature range of - 40° C to $+180^{\circ}$ C, up to $+300^{\circ}$ C temporarily, for up to 60 seconds
- For marking PCBs, can be used in all industrial soldering processes
- High weathering and chemical resistance
- The marking material is UL listed
- Protection against tampering: the labels cannot be removed without disintegrating
- Designation example: EML-HT (8x8)R

Lettering field size: 8 x 8 mm Type of packaging: roll

- Single-web large roll with 8000 or 10,000 labels (see figure below)

Notes:

The THERMOMARK-RIBBON 110-EML-HT ink ribbon is required for marking EM-LHT... high-temperature labels, see under "Printers", page 821

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.



Can be printed with:



Thermal transfer for rolls



Technical data

1 • THERMO-

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
•	

Ink ribbon, specifically for high-temperature labels, EML-HT...

vith:	THERMOMARK ROLL • THERMOMARK ROLL X1 • THERM MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
	Polyimide
ige [°C]	-40 180
	DIN EN 61010-1 (VDE 0411-1)
	free from silicone and halogen

		Ordering data		
Description	Color	Туре	Order No.	Pcs. / Pkt.
High-temperature labels				
4000 labels per roll	white	EML-HT (8X8)R	0800340	1
4000 labels per roll	white	EML-HT (15X6)R	0830644	1
4000 labels per roll	white	EML-HT (15X15)R	0800341	1
4000 labels per roll	white	EML-HT (20X7)R	0830645	1
4000 labels per roll	white	EML-HT (24X4)R	0830646	1
4000 labels per roll	white	EML-HT (25X8)R	0830647	1
2500 labels per roll	white	EML-HT (25,4X12,7)R	0830648	1
2500 labels per roll	white	EML-HT (32X10)R	0830649	1
2500 labels per roll	white	EML-HT (35X6,5)R	0830650	1
1000 labels per roll	white	EML-HT (40X15)R	0800339	1
2500 labels per roll	white	EML-HT (45X5)R	0800337	1
1000 labels per roll	white	EML-HT (50X10)R	0800338	1
1000 labels per roll, round, 12 mm diameter	white	EML-HT (D12)R	0801376	1
High-temperature labels, on large roll				
10,000 labels per roll	white			
10,000 labels per roll	white			
8000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
8000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
High-temperature label, labeled acc. to customer specifications	ica-			
4 labels per strip	white			
5 labels per strip	white			
4 labels per strip	white			
4 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
3 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
4 labels per strip	white			
1 label per strip	white			
		Accesories		

	Accessories							
(THERMOMARK-RIBBON 110-EML-HT	0800342	1					



Unlabeled, on large roll



Labeled according to customer specifications

		ata

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Polyimide

-40 ... 180 DIN EN 61010-1 (VDE 0411-1)

Technical data

Polyimide

-40 ... 180 DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen		free from silicone and halogen			
Ordering dat	а		Ordering data		
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
EML-HT (8X8)RL-T EML-HT (15X6)RL-T EML-HT (15X15)RL-T EML-HT (20X7)RL-T EML-HT (24X4)RL-T EML-HT (25X8)RL-T EML-HT (25,4X12,7)RL-T EML-HT (32X10)RL-T EML-HT (35X6,5)RL-T EML-HT (40X15)RL-T EML-HT (45X5)RL-T EML-HT (45X5)RL-T	0830651 0830652 0830653 0830654 0830655 0830656 0830657 0830658 0830659 0830660 0830661	1 1 1 1 1 1 1 1 1 1			
			EML-HT (8X8)R CUS EML-HT (15X6)R CUS EML-HT (15X15)R CUS EML-HT (20X7)R CUS EML-HT (24X4)R CUS EML-HT (25X8)R CUS EML-HT (25,4X12,7)R CUS EML-HT (32X10)R CUS EML-HT (35X6,5)R CUS EML-HT (40X15)R CUS EML-HT (45X5)R CUS EML-HT (45X5)R CUS	0830169 0830663 0830170 0830664 0830665 0830666 0830669 0830168 0830168 0830166	1 1 1 1 1 1 1 1 1 1 1 1
Accessories	•		Accessories	1	
THERMOMARK-RIBBON 110-EML-HT	0800342	1			

Stick-on device marking, for ESD applications



- Safe marking for sensitive components on **PCBs**
- Static dissipative adhesive: prevents transmission of voltage and protects the component against electrostatic discharge
- Marking service: Phoenix Contact can custom-mark all EML-ESD ... markers according to your requirements
- Designation example: EML-ESD (8x8)R

Lettering field size: 8 x 8 mm Type of packaging: roll

Notes:

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

Can be printed with:



Thermal transfer for rolls

Components



Unlabeled

Technical data

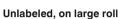
Ordering data

General data Can be printed with: Material Temperature range Wipe resistance

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK S1.1 • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

Description	Color	Туре	Order No.	Pcs. / Pkt.
Device marking, roll				
4000 labels per roll	white	EML-ESD (8X8)R	0830564	1
4000 labels per roll	white	EML-ESD (15X6)R	0830565	1
4000 labels per roll	white	EML-ESD (15X15)R	0830566	1
4000 labels per roll	white	EML-ESD (20X7)R	0830567	1
4000 labels per roll	white	EML-ESD (24X4)R	0830568	1
4000 labels per roll	white	EML-ESD (25X8)R	0830569	1
2500 labels per roll	white	EML-ESD (25,4X12,7)R	0830570	1
2500 labels per roll	white	EML-ESD (32X10)R	0830571	1
2500 labels per roll	white	EML-ESD (35X6,5)R	0830572	1
2500 labels per roll	white	EML-ESD (40X15)R	0830573	1
2500 labels per roll	white	EML-ESD (45X5)R	0830574	1
1000 labels per roll	white	EML-ESD (50X10)R	0830575	1
Device marking, roll				
10,000 labels per roll	white			
10,000 labels per roll	white			
8,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
8,000 labels per roll	white			
10,000 labels per roll	white			
10,000 labels per roll	white			
Device marking, roll, marked according tions	g to customer specifica-			
4 labels per strip	white			
5 labels per strip	white			
4 labels per strip	white			
4 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
3 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
1 label per strip	white			







Labeled according to customer specifications

		data	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK S1.1 • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester

-40 ... 150 DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Polyester -40 ... 150

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data		Ordering data			
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
EML-ESD (8X8)RL-T EML-ESD (15X6)RL-T EML-ESD (15X15)RL-T EML-ESD (20X7)RL-T EML-ESD (25X8)RL-T EML-ESD (25X8)RL-T EML-ESD (25X12,7)RL-T EML-ESD (32X10)RL-T EML-ESD (35X6,5)RL-T EML-ESD (45X5)RL-T EML-ESD (45X5)RL-T EML-ESD (50X10)RL-T	0830576 0830577 0830578 0830579 0830580 0830581 0830582 0830583 0830584 0830585 0830586	1 1 1 1 1 1 1 1 1 1			
			EML-ESD (8X8)R CUS EML-ESD (15X6)R CUS EML-ESD (15X15)R CUS EML-ESD (20X7)R CUS EML-ESD (24X4)R CUS EML-ESD (25X8)R CUS EML-ESD (25X8)R CUS EML-ESD (32X10)R CUS EML-ESD (35X6,5)R CUS EML-ESD (40X15)R CUS EML-ESD (40X15)R CUS EML-ESD (45X5)R CUS EML-ESD (50X10)R CUS	0830588 0830589 0830590 0830591 0830592 0830593 0830594 0830595 0830596 0830597 0830598	1 1 1 1 1 1 1 1 1 1

Stick-on device marking, removable



- Particularly suitable for temporary mark-
- The labels adhere well and reliably, and can be removed easily and residue-free if required
- The labels cannot be reused following removal
- Marking service: Phoenix Contact can custom-mark all EML-RM ... markers according to your requirements
- Designation example: **EML-RM** (8x8)R

Lettering field size: 8 x 8 mm Type of packaging: roll

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

Can be printed with:



Thermal transfer for rolls



Unlabeled

Technical data

Ordorina data

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Ink ribbon, length: 300 m, width: 110 mm

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-
MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
WATREATT THE TWO WATREATTS THE TWO WATREATTS
- ·

Pcs. / Pkt.

-40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

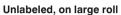
THERMOMARK-RIBBON 110

5145384

Polyester

		Ordering dat	а
Description	Color	Туре	Order No.
Labels, removable			
4000 labels per roll	white	EML-RM (8X8)R	0830528
4000 labels per roll	white	EML-RM (15X6)R	0830529
4000 labels per roll	white	EML-RM (15X15)R	0830530
4000 labels per roll	white	EML-RM (20X7)R	0830531
4000 labels per roll	white	EML-RM (24X4)R	0830532
4000 labels per roll	white	EML-RM (25X8)R	0830533
2500 labels per roll	white	EML-RM (25,4X12,7)R	0830534
2500 labels per roll	white	EML-RM (32X10)R	0830535
2500 labels per roll	white	EML-RM (35X6,5)R	0830536
2500 labels per roll	white	EML-RM (40X15)R	0830537
2500 labels per roll	white	EML-RM (45X5)R	0830538
1000 labels per roll	white	EML-RM (50X10)R	0830539
Labels, on large roll, removable			
10,000 labels per roll	white		
10,000 labels per roll	white		
8,000 labels per roll	white		
10,000 labels per roll	white		
10,000 labels per roll	white		
10,000 labels per roll	white		
10,000 labels per roll	white		
10,000 labels per roll	white		
10,000 labels per roll	white		
8,000 labels per roll	white		
10,000 labels per roll	white		
10,000 labels per roll	white		
Labels, removable, marked according to customer spe	ecifica-		
tions			
4 labels per strip	white		
5 labels per strip	white		
4 labels per strip	white white		
4 labels per strip			
2 labels per strip	white white		
2 labels per strip	white		
3 labels per strip	white		
2 labels per strip	white		
2 labels per strip	white		
2 labels per strip	white		
2 labels per strip 1 label per strip	white		
i ianei hei siiih	WILLE		
		Accessories	







Labeled according to customer specifications

Technical data	Technical data
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-	
MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	-
Polyester	Polyester

-40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

-40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

Ordering data		Ordering data			
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
EML-RM (8X8)RL-T EML-RM (15X6)RL-T EML-RM (15X15)RL-T EML-RM (20X7)RL-T EML-RM (24X4)RL-T EML-RM (25X8)RL-T EML-RM (25,4X12,7)RL-T EML-RM (32X10)RL-T EML-RM (35X6,5)RL-T EML-RM (40X15)RL-T EML-RM (40X15)RL-T EML-RM (45X5)RL-T EML-RM (45X5)RL-T	0830540 0830541 0830542 0830543 0830544 0830545 0830547 0830549 0830550 0830551	1 1 1 1 1 1 1 1 1 1			
			EML-RM (8X8)R CUS EML-RM (15X6)R CUS EML-RM (15X15)R CUS EML-RM (20X7)R CUS EML-RM (24X4)R CUS EML-RM (25X8)R CUS EML-RM (25,4X12,7)R CUS EML-RM (32X10)R CUS EML-RM (35X6,5)R CUS EML-RM (40X15)R CUS EML-RM (45X5)R CUS EML-RM (45X5)R CUS EML-RM (50X10)R CUS	0830552 0830553 0830554 0830555 0830555 0830557 0830558 0830559 0830560 0830561 0830562 0830563	1 1 1 1 1 1 1 1 1 1
Accessories		Accessories	S		
THERMOMARK-RIBBON 110	5145384	1			

Device marking

Stick-on device marking, with antitamper protection



- Tamper-proof label, can be used as a rating plate or seal, for example
- When peeled off, part of the metallic layer comes away, leaving behind a triangular pattern on both the label and the surface
- The safety function is reliable up to 80°C
- Marking service: Phoenix Contact can custom-label all EMLS ... markers in accordance with your requirements
- The EMLS ... materials are UL-listed
- Designation example: EMLS (15x9)R SR

Lettering field size: 15 x 9 mm Type of packaging: roll

Can be printed with:



Thermal transfer for rolls



Unlabeled

*9*1

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-
MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

		Ordering	data	
Description	Color	Туре	Order No.	Pcs. / Pkt.
Safety labels				
2500 labels per roll	silver	EMLS (15X9)R SR	0800347	1
2500 labels per roll	silver	EMLS (19X6)R SR	0800343	1
1000 labels per roll	silver	EMLS (20X20)R SR	0800344	1
1000 labels per roll	silver	EMLS (26,5X12)R SR	0800353	1
1000 labels per roll	silver	EMLS (38,1X19)R SR	0800354	1
1000 labels per roll	silver	EMLS (40X8)R SR	0800348	1
1000 labels per roll	silver	EMLS (40X15)R SR	0800345	1
500 labels per roll	silver	EMLS (60X30)R SR	0800355	1
500 labels per roll	silver	EMLS (70X32)R SR	0800346	1
100 labels per roll	silver	EMLS (70X150)R SR	0800351	1
250 labels per roll	silver	EMLS (76X51)R SR	0800350	1
250 labels per roll	silver	FMLS (85X32)R SR	0800356	1

Device marking

Stick-on device marking, with antitamper protection

- All EMLS ... device markers can also be supplied marked according to customer requirements



Labeled according to customer specifications

97

	Technical data
General data	
Can be printed with:	-
Material	Polyester
Temperature range [°C]	-40 150
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone and halogen

		Ordering data		
Description	Color	Туре	Order No.	Pcs./ Pkt.
Safety label, labeled acc. to customer specifi	ications			
4 labels per strip	silver	EMLS (15X9)R SR CUS	0830175	1
4 labels per strip	silver	EMLS (19X6)R SR CUS	0830171	1
4 labels per strip	silver	EMLS (20X20)R SR CUS	0830172	1
2 labels per strip	silver	EMLS (26,5X12)R SR CUS	0830179	1
2 labels per strip	silver	EMLS (38,1X19)R SR CUS	0830180	1
2 labels per strip	silver	EMLS (40X8)R SR CUS	0830176	1
2 labels per strip	silver	EMLS (40X15)R SR CUS	0830173	1
1 label per strip	silver	EMLS (60X30)R SR CUS	0830181	1
1 label per strip	silver	EMLS (70X32)R SR CUS	0830174	1
1 label per strip	silver	EMLS (70X150)R SR CUS	0830178	1
1 label per strip	silver	EMLS (76X51)R SR CUS	0830177	1
1 label per strip	silver	EMLS (85X32)R SR CUS	0830182	1

Conductor and cable marking

Self-adhesive conductor marking with transparent protective foil



- The cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the marking and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- High-quality marking image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

Can be printed with:



Thermal transfer for rolls



Marker for conductor diameters of up to 46 mm, unlabeled

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-
MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
PVC
-50 110
DIN EN 61010-1 (VDE 0411-1)
Office of the second

Technical data

	Ordering data		
Description Cold	Туре	Order No.	Pcs. / Pkt.
Cable marker labels			
5000 labels, up to 3 mm Ø whit	WML 3 (13X10)R	0800073	1
3000 labels, up to 5 mm Ø whit	WML 5 (25X10)R	0817523	1
3000 labels, up to 5 mm Ø yellov	WML 5 (25X10)R YE	0830673	1
7000 labels, up to 6 mm Ø whit	WML 6 (13X13)R	0816252	1
7000 labels, up to 6 mm Ø yellov	WML 6 (13X13)R YE	0830674	1
4000 labels, up to 7.5 mm Ø whit	WML 7,5 (13X13)R	0800074	1
1500 labels, up to 7.5 mm Ø whit	wML 7,5 (17X9)R	0828444	1
2100 labels, up to 7.5 mm Ø whit	WML 7,5 (25X13)R	0800075	1
1000 labels, up to 12 mm Ø whit	WML 12 (25X19)R	0800076	1
1500 labels, up to 14 mm Ø whit	WML 14 (25X19)R	0817536	1
1500 labels, up to 14 mm Ø yellov	WML 14 (25X19)R YE	0817549	1
1000 labels, up to 14 mm Ø whit	WML 14 (38X19)R	0817552	1
1500 labels, up to 14 mm Ø yellov	WML 14 (38X19)R YE	0830675	1
2500 labels, up to 18 mm Ø whit	WML 18 (12X12)R	0817507	1
500 labels, up to 20 mm Ø whit	WML 20 (31X25)R	0828457	1
900 labels, up to 22 mm Ø whit	WML 22 (25X25)R	0800078	1
500 labels, up to 36 mm Ø whit	WML 36 (25X38)R	0817510	1
250 labels, up to 46 mm Ø whit	WML 46 (25X38)R	0800067	1
Cable marker labels, on large roll			
10,000 labels, up to 5 mm Ø whit	WML 5 (25X10)RL	0830676	1
15,000 labels, up to 6 mm Ø whit	WML 6 (13X13)RL	0830677	1
5000 labels, up to 14 mm Ø whit	WML 14 (25X19)RL	0830678	1
3000 labels, up to 14 mm Ø whit	WML 14 (38X19)RL	0830679	1



Self-adhesive conductor marking with transparent protective foil

- All WML ... cable marker labels can also be supplied labeled according to customer requirements



Markers for conductor diameters of up to 36 mm, labeled acc. to customer specifications

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data			
PVC			
-50 110			
DIN EN 61010-1 (VDE 0411-1)			
Silicone-free			

		Ordering data		
Description	Color	Туре	Order No.	Pcs. / Pkt.
Cable marker labels, labeled according to cuments	ustomer require-			
Up to 3 mm Ø, 4 labels per strip	white	WML 3 (13X10)R CUS	0824884	1
Up to 5 mm Ø, 3 labels per strip	white	WML 5 (25X10)R CUS	0824885	1
Up to 5 mm Ø, 3 labels per strip	yellow	WML 5 (25X10)R YE CUS	0830680	1
Up to 6 mm Ø, 7 labels per strip	white	WML 6 (13X13)R CUS	0824886	1
Up to 6 mm Ø, 7 labels per strip	yellow	WML 6 (13X13)R YE CUS	0830681	1
Up to 7.5 mm Ø, 7 labels per strip	white	WML 7,5 (13X13)R CUS	0824887	1
Up to 7.5 mm Ø, 4 labels per strip	white	WML 7,5 (17X9)R CUS	0828991	1
Up to 7.5 mm Ø, 3 labels per strip	white	WML 7,5 (25X13)R CUS	0824888	1
Up to 12 mm Ø, 3 labels per strip	white	WML 12 (25X19)R CUS	0824889	1
Up to 14 mm Ø, 3 labels per strip	white	WML 14 (25X19)R CUS	0824890	1
Up to 14 mm Ø, 3 labels per strip	yellow	WML 14 (25X19)R YE CUS	0824891	1
Up to 14 mm Ø, 2 labels per strip	white	WML 14 (38X19)R CUS	0824892	1
Up to 14 mm Ø, 2 labels per strip	yellow	WML 14 (38X19)R YE CUS	0830682	1
Up to 18 mm Ø, 7 labels per strip	white	WML 18 (12X12)R CUS	0824894	1
Up to 20 mm Ø, 2 labels per strip	white	WML 20 (31X25)R CUS	0828992	1
Up to 22 mm Ø, 3 labels per strip	white	WML 22 (25X25)R CUS	0824895	1
Up to 36 mm Ø, 3 labels per strip	white	WML 36 (25X38)R CUS	0824896	1

Printers

THERMOMARK ROLL, thermal transfer printer for material off the



- The THERMOMARK ROLL can print markers supplied on rolls in the context of terminal, conductor, cable, and device marking applications
- For all labels and shrink sleeves
- Maintenance-free operation with triedand-tested thermal transfer printing tech-
- High-quality, fast marking
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.



Description

width: 64 mm



CCC · W · P CB

Color

black

black

white

black white

Dimensions	
	[mm]
General data	
Print resolution	[dpi]
Max. print width	[mm]
Max. printing length	[mm]
Power supply	[V]
Weight	[kg]
Operating systems	

Technical data				
Width	Length	Height		
253	320	189		
300 dpi				
104				
1000				
100 240 / 50 Hz 60 Hz				
4				
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)				

	Thermal transfer printer for material off the roll, including pean power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels,		
	one ink ribbon (50 meters)		
1		gray	_
	Cutter, can be retrofitted, for precise cutting of continuous m into required lengths	edia	
	Cutter, can be retrofitted, for perforating continuous media		
	Transport case		
	External media hub, for roll diameters of 150 mm to 305 mm	n	
	External media hub, for roll diameters of up to 500 mm		
	Ink ribbon, length: 300 m, width: 110 mm		
		black blue green red	
	Ink ribbon, specifically for high-temperature labels, EML-HT		

Ink ribbon, specifically for WMS... shrink sleeves, length; 300 m.

Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m,

bit), MS Windows 8 (32/64-bit)			
Ordering data			
Туре	Order No.	Pcs. / Pkt.	
THERMOMARK ROLL	5146477	1	
Accessories	5		
THERMOMARK ROLL-CUTTER	5146422	1	
THERMOMARK ROLL-CUTTER/P	5146435	1	
TL CASE	0800613	1	

THERMOMARK ROLL X1, thermal transfer printer for material off the roll



The THERMOMARK ROLL X1 printer is suitable for marking large quantities and offers the following features:

- Also accommodates large rolls; inside the printer housing, the label rolls are protected against environmental influences such as dust and dirt
- For all labels and shrink sleeves
- Maintenance-free operation with triedand-tested thermal transfer printing technology
- High-quality, fast marking
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software
- Printing and dispensing labels on request or automatically after removing the label with the THERMOMARK ROLL X1 -**DISPENSER**

Cutting to length or perforating is easy

- Continuous media can be cut or perforated with a high degree of positioning accuracy (see figure below)





Thermal transfer for rolls



Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Max. printing length	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	

	Technical data				
	Width	Length	Height		
]	264	412	245		
]	5 40				
]	300 dpi				
]	104				
]	1000				
	10/100 Mbps Et	hernet / USB 2.0			
]	100 240 / 50 I	Hz 60 Hz			
]	5				
	MS Windows XI	P SP3, MS Windo	ws Vista, MS Windows 7 (32/64-		
	bit), MS Windov	vs 8 (32/64-bit)			

Ordering data

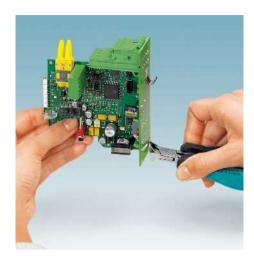
Order No.

Description Cole	or	Туре
Thermal transfer printer for material off the roll, including European power cable, USB cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)		
gra	ıy	THER
Cutter , can be retrofitted, for precise cutting of continuous media into required lengths		THER
Perforation device, can be retrofitted, for perforating and cutting		

,	THERMOMARK ROLL X1	5146723	1
	Accessories	}	
	THERMOMARK ROLL X1 CUTTER	5146765	1
	THERMOMARK ROLL X1 CUTTER/P	5146766	1
c e n	THERMOMARK-RIBBON 110 THERMOMARK-RIBBON 110 BU THERMOMARK-RIBBON 110 GN THERMOMARK-RIBBON 110 RD	5145384 0829544 0829542 0829543	1 1 1
(THERMOMARK-RIBBON 110-EML-HT	0800342	1
()	THERMOMARK-RIBBON 110-WMSU THERMOMARK-RIBBON 110-WMSU WH	0801358 0801359	1
(THERMOMARK-RIBBON 64-WMSU THERMOMARK-RIBBON 64-WMSU WH	0801360 0801361	1 1
(THERMOMARK-RIBBON 110-WMTB	5148007	1
r	THERMOMARK ROLL X1-CASE	5146724	1

Cutter, can be retrofitted, for precise cutting of continuous m into required lengths	iedia
Perforation device , can be retrofitted, for perforating and continuous media	utting
Ink ribbon, length: 300 m, width: 110 mm	black blue green red
Ink ribbon, specifically for high-temperature labels, EML-HT	·
	black
Ink ribbon, specifically for WMS shrink sleeves, length: 30 width: 110 mm	00 m,
	black white
Ink ribbon, specifically for WMS shrink sleeves, length: 30 width: 64 mm	00 m,
	black white
Ink ribbon, specifically for cable markers for assembly with binders, WMTB HF, length: 300 m, width: 110 mm	cable
	black
Transport case	
	silver

MICROFOX electronics pliers



Miniature precision pliers feature the fol-

- Ergonomically designed two-component grip for fatigue-proof and non-slip use
- Manufactured from high-grade special tool steel
- Opening spring for uniform, smooth opening
- Through-connected joint for permanent stability and optimum distribution of force
- Mirror-polished and oiled metal surfaces, which provide maximum rust protection

Cutting pliers

- Additional inductive hardened cutting for long-term, stable cutting performance
- Precision-ground for exact cutting applications with minimum effort
- Various head shapes, even for areas that are difficult to access

Gripping and bending pliers

- Smooth grip to prevent damage to components when gripping and bending

Technical data regarding cutting capacity, see www.phoenixcontact.net/products



Diagonal cutter, with chamfer



	0		
	Ordering dat	ia	
Description	Туре	Order No.	Pcs. / Pkt.
Electronic diagonal cutter , round head, with chamfer, with opening spring	MICROFOX-SB	1212489	1
Electronic diagonal cutter, tapered head, angled (21°), without chamfer, with opening spring	MICROFOX-SP	1212488	1
Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version		12.2.2.2	
Electronic front cutter, without chamfer, with opening spring	MICROFOX-SP-1	1212487	1
Electronic front cutter, 20° angle, without chamfer, with opening spring			
Electronic needle-nose pliers, smooth grip, with opening spring			
Electronic needle-nose pliers , 45° angle, smooth grip, with opening spring			
Electronic flat-nose pliers, smooth grip, with opening spring			
Electronic round-nose pliers, smooth grip, with opening spring			







Needle-nose pliers



Flat/round-nose pliers







Ordering data			Ordering dat	а		Ordering dat	Ordering data Order No. Pcs. / Pkt.	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	
MICROFOX-E	1212494	1						
MICROFOX-EO	1212495	1						
			MICROFOX-P	1212491	1			
			MICROFOX-PC	1212492	1			
			WIGHOI OX-FC	1212492	'			
						MICROFOX-F	1212493	1
						MICROFOX-R	1212490	1

MICROFOX ESD electronics pliers



ESD MICROFOX pliers offer the following features:

- The special conductive plastic grip ensures slow and safe removal of electrostatic energy according to standards and directives such as DIN EN 61340-5
- Ergonomically designed two-component grip for fatigue-proof and non-slip use
- Manufactured from high-grade special tool steel
- Opening spring for uniform, smooth opening
- Screwed precision-joint for permanent stability and optimum results
- Mirror-polished and phosphate-treated metal surfaces for optimum rust protection and no glare when working

Cutting pliers

- Additional inductive hardened cutting for long-term, stable cutting performance
- Precision-ground for exact cutting applications with minimum effort
- Various head shapes, even for areas that are difficult to access

Gripping and bending pliers

- Smooth grip to prevent damage to components when gripping and bending

Notes:

Technical data regarding cutting capacity, see www.phoenixcontact.net/products





ESD diagonal cutter



	Ordering dat	а	
Description	Туре	Order No.	Pcs. / Pkt.
ESD electronic diagonal cutter, round head, without chamfer, with opening spring	MICROFOX-S ESD	1212480	1
ESD electronic front cutter, without chamfer, with opening spring			
ESD electronic needle-nose pliers, smooth grip, with opening spring			
ESD electronic needle-nose pliers, 45° angle, smooth grip, with opening spring			
ESD electronic flat-nose pliers, smooth grip, with opening spring			
ESD electronic round-nose pliers, smooth grip, with opening spring			















ESD front cutter

ESD needle-nose pliers

ESD flat/round-nose pliers







Ordering data			Ordering dat	a		Ordering dat	a	
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
MICROFOX-E ESD	1212485	1						
			MICROFOX-P ESD	1212482	1			
			MICROFOX-PC ESD	1212483	1			
						MICROFOX-F ESD	1212484	1
						MICROFOX-R ESD	1212481	1

Press-in devices



Stamp holder for EMC header



Stamp set for EMCV header

Description
Stamp holder, for EMC press-in pin strips, for upper and lower stamp
Stamp set, for EMCV press-in pin strips, consisting of upper and lower stamp for 3.81 mm pitch, 2 to 16-pos.

Ordering data				
Туре	Order No.	Pcs./ Pkt.		
EMC 1,5-SH	1877258	1		

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
EMCV 1,5-SS 1	1877274	1		



Stamp holder for EMSTB header



Stamp set for EMSTBVA header

Description
Stamp holder, for EMSTB press-in pin strips, for upper and lower stamp
Stamp set , for EMSTBVA press-in pin strips, consisting of lower stamp 2 to 24 pos. and upper stamp 2 to 16-pos.

Ordering data				
Туре	Order No.	Pcs. / Pkt.		
EMSTB 2,5-SH	1877203	1		

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
EMSTBVA 2,5-SS-1-5,08	1877216	1			





Module socket contact for MSTBC pin strip

Module pin contact for ICC connector

	Ordering data			Ordering data		
Description	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Module socket contact, is inserted into the connector after the conductor has been crimped; for conductors from						
0.5 to 1.0 mm ²	MSTBC-MT 0,5-1,0	3190564	100			
0.5 to 1.0 mm ² ribbon contacts	MSTBC-MT 0,5-1,0 BA	3190645	4000			
1.5 to 2.5 mm ²	MSTBC-MT 1,5-2,5	3190551	100			
1.5 to 2.5 mm ² ribbon contacts	MSTBC-MT 1,5-2,5 BA	3190658	3500			
Module pin contact , is inserted into the connector after the conductor has been crimped; for conductors from						
0.5 to 1.0 mm ²				ICC-MT 0,5-1,0	3190577	100
0.5 to 1.0 mm ² ribbon contacts				ICC-MT 0,5-1,0 BA	3190603	4000
1.5 to 2.5 mm ²				ICC-MT 1,5-2,5	3190580	100
1.5 to 2.5 mm ² ribbon contacts				ICC-MT 1,5-2,5 BA	3190593	4000





Module socket contact for MCC pin strip

Module socket Contact for PCC pin strip

	Ordering data			Ordering da	ta	
Description	Туре	Order No.	Pcs./ Pkt.	Туре	Order No.	Pcs. / Pkt.
Module socket contact , is inserted into the plug component after the conductor has been crimped; for conductors from						
0.2 to 0.34 mm ² 0.2 to 0.34 mm ² ribbon contacts 0.5 to 1.0 mm ² 0.5 to 1.0 mm ² ribbon contacts	MCC-MT 0,2-0,35 MCC-MT 0,2-0,35 (0,0) BA MCC-MT 0,5-1,0 MCC-MT 0,5-1,0 BAND	1859988 1923717 1859991 1898622	100 8000 100 6500			
Module socket contact, 0.5 - 1 mm ² for wires from 0.5 1,0 mm ² For conductors from 1.5 2.5 mm ²				STG-MTN 0,5-1,0 STG-MTN 0,5-1,0 BA STG-MTN 1,5-2,5 STG-MTN 1.5-2.5 BAND	3190438 3190629 3190506 3190632	100 4000 100 3300

Pullout aids



Pull-out aid for plugs with crimp contact, pitch 5.08 mm

	Ordering data				
Description	Туре	Order No.	Pcs. / Pkt.		
Pull-out aid for MSTBC 2,5/ and ICC 2,5/, for snapping into the latching chambers of the plug, can be labeled with ZB 6					
2-pos.	STZ 2-MSTBC-5,08	1810529	50		
4-pos.	STZ 4-MSTBC-5,08	1810532	50		
8-pos.	STZ 8-MSTBC-5,08	1810516	50		
12-pos.	STZ 12-MSTBC-5,08	1810503	50		

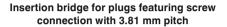
 $^{\mbox{\tiny 1}}\mbox{)}$ Different numbers of positions can be supplied for MCC 1/...ST on request



Pull-out aid for plugs with crimp contact, pitch 3.81/7.62 mm

	Ordering data				
Description	Туре	Order No.	Pcs. / Pkt.		
Pull-out aid for MCC 1/ST and for PCC 4/ST, for snapping into the latching chambers of the plug, can be labeled with ZB 6;1)					
2-pos.	STZ 2-PCC 4-7,62	1840214	50		
3 to 4-pos.	STZ 3-PCC 4-7,62	1840227	50		
5- to 7-pos.	STZ 5-PCC 4-7,62 GN	1842005	50		
8- to 12-pos.	STZ 8-PCC 4-7,62	1840230	50		







Insertion bridge with long contact zone for plugs featuring screw connection with 5 or 5.08 mm pitch

	Ordering data		Ordering data			
Description	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Insertion bridge, fully insulated, for plugs with a 3.81 mm pitch						
2-pos. 3-pos. 4-pos.	EBPL 2-3,81 EBPL 3-3,81 EBPL 4-3,81	1733495 1733505 1733518	50 50 50			
Insertion bridge, insulated 2-pos. 3-pos.				EBL 2-5 EBL 3-5	2303145 2303158	10 10

Please refer to the notes for the bridges, refer to page 37



Insertion bridge for PCB terminal blocks and plugs featuring screw connection with 5.0 or 5.08 mm pitch

	Ordering data				
Description	Туре	Order No.	Pcs. / Pkt.		
Insertion bridge , fully insulated, for plug-in connectors with 5.0 or 5.08 mm pitch					
2-pos.	EBP 2-5	1733169	10		
3-pos.	EBP 3-5	1733172	10		
4-pos.	EBP 4-5	1733185	10		
5-pos.	EBP 5-5	1733198	10		
6-pos.	EBP 6-5	1733208	10		

Fixed bridges

Notes:

Please refer to the notes for the bridges, refer to page 37.

1) Current carrying capacity 20 A. Laboratory data sheet available on request.



Fixed bridge, for ZFKDS 4 PCB terminal blocks, 7.5 mm pitch



Fixed bridge, for ZFKDS 4 PCB terminal blocks, 10 mm pitch

	Ordering data			Ordering dat	ta		
Description	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	
Fixed bridge, for ZFKDS 4 PCB terminal blocks, fully insulated, 7.5 mm pitch1)							
2-pos.	FBSK 2-7,5	1928343	50				
3-pos.	FBSK 3-7,5	1928356	50				
4-pos.	FBSK 4-7,5	1928369	10				
5-pos.	FBSK 5-7,5	1928372	50				
10-pos.	FBSK 10-7,5	1928385	50				
Fixed bridge, for ZFKDS 4 PCB terminal blocks, fully insulated, 10 mm pitch ¹)							
2-pos.				FBSK 2-10	1928398	50	
3-pos.				FBSK 3-10	1928408	50	
4-pos.				FBSK 4-10	1928411	50	
5-pos.				FBSK 5-10	1928424	10	
10-pos.				FBSK 10-10	1928437	50	

Please refer to the notes for the bridges, refer to page 37

1) Current carrying capacity 57 A. Laboratory data sheet available on request.



Fixed bridge, for ZFKDS 10 PCB terminal blocks, 10 mm pitch



Fixed bridge, for ZFKDS 10 PCB terminal blocks, 10 mm pitch

Description
Fixed bridge, for ZFKDS 10 PCB terminal blocks, fully insulated, 10 mm pitch1)
2-pos.
3-pos. 4-pos.
Fixed bridge, for ZFKDS 10 PCB terminal blocks, fully insulated,
pitch: 15 mm¹)
2-pos.
3-pos.
4-pos.

Ordering data					
Туре	Order No.	Pcs. / Pkt.			
FBSK 2-10/ZFKDS 10 FBSK 3-10/ZFKDS 10 FBSK 4-10/ZFKDS 10	1986644 1986657 1986660	50 10 10			

Order No.	Pcs. / Pkt.
1986699 1986686	50 50 50
	1986699



2.3 mm test plugs



Test plug, consisting of 1 mm Ø test pin and 2 mm Ø socket

		Ordering data		Ordering data			
Description	Color	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
Test plug metal part, 2.3 mm Ø							
		MPS-MT	0201744	10			
	white	MPS-IH WH	0201663	10			
Insulating sleeve, for MPS metal part	red	MPS-IH RD	0201676	10			
	blue	MPS-IH BU	0201689	10			
	yellow	MPS-IH YE	0201692	10			
	green	MPS-IH GN	0201702	10			
	gray	MPS-IH GY	0201728	10			
	black	MPS-IH BK	0201731	10			
Test plug, consisting of 1 mm Ø test pin, conductor mm and socket Ø 2 mm	r length 150						
					MPS-MT 1-S	1944372	1
					MPS-MT 1-S4-B RD	1982800	50



4 mm test plugs



Reducing plug

		Ordering data		Ordering da	ta		
Description	Color	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs./ Pkt.
Test plug, consisting of: Metal part for 4 mm \varnothing socket hand	ole						
		PS-MT	0311647	10			
Insulating sleeve for PS metal part	white	PS-IH WH	0311566	10			
	red	PS-IH RD	0311579	10			
	blue	PS-IH BU	0311582	10			
	yellow	PS-IH YE	0311595	10			
	green	PS-IH GN	0311605	10			
	violet	PS-IH VT	0311618	10			
	gray	PS-IH GY	0311621	10			
	black	PS-IH BK	0311634	10			
Reducing plug, for connecting a 4 mm \varnothing test plug to a 2 test plug socket	.3 mm Ø						
	gray				RPS	0201647	10

Test plug

Notes:

COMBICON select You will find the possible plug-in connector combinations in COMBICON select at: www.phoenixcontact.net/products



5-position test plug

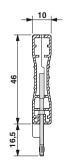


Technical data

Single-wire/terminal point, stranded Single-wire/terminal point, AWG Nominal current I_N Nominal voltage U_N

0.14 mm² - 0.75 mm² 26 - 18 2 A 125 V

	Orde	Ordering data					
Description	Туре	Order No.	Pcs. / Pkt.				
Test plug , 5-pos., 5/5,08 mm pitch with 2 mm Ø test pins, gold-plated test pins	ST-MKDSP 3/5	1718207	10				
$\textbf{Test plug}, 10\text{-pos.}, 5/5,08 \text{mm pitch with 2 mm} \varnothing \text{lamellar pins and 10 firmly welded 1 m test conductors, gold-plated lamellar pins}$							
Test plug , 5-position, 5/5.08 mm pitch, with special multiple-spring wire plug, makes contact in the connection space							
Test plug , 5-position, 7.5/7.62 mm pitch, with special multiple-spring wire plug, makes contact in the connection space							







10-pos. test plug, with 10 welded-on test conductors



5-pos. test plug, 5/0/5.08 mm pitch, makes contact in the conductor connection space

P



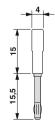
5-pos. test plug, 7.5/7.62 mm pitch, makes contact in the conductor connection space

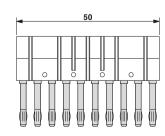
PG

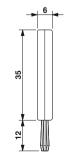


Technical data	Technical data	Technical data
0.75 mm ²	0.75 mm ²	0.75 mm ²
2 A	2 A	2 A
125 V	25 V	25 V

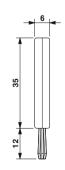
Ordering data		Ordering dat	а	Ordering data				
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
SPB 10-MKDSP	1301355	5						
			SPB 5-MKDS 3	1301216	10			
						SPB 5-GMKDS 3	1301203	10

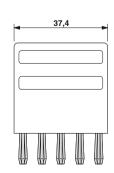








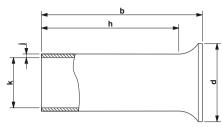


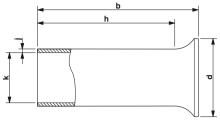


Ferrules

Ferrules without insulating collar, according to DIN 46228-1

- The ferrules without plastic sleeve are made from soft tin-plated electrolytic copper
- The dimensions of the ferrules conform to DIN 46228-1
- The A 0,25.. can also be used to process conductors with a cross section of 0.14 mm^2





Notes:

1) These ferrules are not included in DIN 46228-4:1990-09.



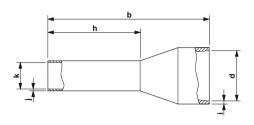
Conductor cross sections from 0.14 to 35 mm²

(1)

						Tec	hnical d	ata			Technical data		
General data													
Material / coating											E-CU / tin-plated (galvanic)		
											Ord	dering data	
Description	Cro	oss section	Color			Dim	nensions [m	ım]			Time	Order No.	Pcs./
	[mm ²]	AWG		а	b	d	h	i	j	k	Туре	Order No.	Pkt.
Ferrules, without plast	ic sleeves, CSA-c	certified											
	0.251)	24	silver	-	5.00	1.70	4.30	-	0.15	0.80	A 0,25-5	3202465	1000
	0.251)	24	silver	-	7.00	1.70	6.30	-	0.15	0.80	A 0,25-7	3202478	1000
	0.341)	22	silver	-	7.00	1.80	6.30	-	0.15	0.90	A 0,34-7	3009202	1000
	0.5	20	silver	-	6.00	2.10	5.30	-	0.15	1.00	A 0,5 - 6	3200218	1000
	0.51)	20	silver	-	8.00	2.10	7.30	-	0.15	1.00	A 0,5 - 8	3202481	1000
	0.5	20	silver	-	10.00	2.10	9.30	-	0.15	1.00	A 0,5 -10	3202494	1000
	0.75	18	silver	-	6.00	2.30	5.30	-	0.15	1.20	A 0,75-6	3200221	1000
	0.751)	18	silver	-	8.00	2.30	7.30	-	0.15	1.20	A 0,75-8	3202504	1000
	0.75	18	silver	-	10.00	2.30	9.30	-	0.15	1.20	A 0,75-10	3200234	1000
	1	18	silver	-	6.00	2.50	5.30	-	0.15	1.40	A 1 - 6	3200247 3202517	1000
	11)	18	silver		8.00	2.50	7.30		0.15	1.40	A 1 -8	3200250	1000
	1	18 16	silver silver	-	10.00	2.50	9.30 6.00	-	0.15 0.15	1.40 1.70	A 1 -10 A 1,5 - 7	3200250	1000
	1.5 1.5	16	silver	-	7.00 10.00	2.80	9.00		0.15	1.70	A 1,5 - 10	3200263	1000
	1.5	16	silver		12.00	2.80	11.00		0.15	1.70	A 1,5-10 A 1.5-12	320278	1000
	1.5	16		-	15.00	2.80	14.00	-			A 1,5-12 A 1,5-15	3202591	1000
	1.5	16	silver silver	-	18.00	2.80	17.00		0.15 0.15	1.70 1.70	A 1,5-15 A 1,5-18	3202601	1000
	2.5	14	silver	-	7.00	3.40	6.00		0.15	2.20	A 2,5 - 7	320289	1000
	2.5	14	silver	-	12.00	3.40	11.00		0.15	2.20	A 2,5 - 12	3200289	1000
	2.5	14	silver	-	18.00	3.40	17.00	-	0.15	2.20	A 2,5-12 A 2,5-18	320292	1000
	4	12	silver	-	9.00	4.00	8.00		0.13	2.80	A 4 - 9	3200302	1000
	4	12	silver		12.00	4.00	11.00		0.20	2.80	A 4 -12	3200302	1000
	4	12	silver	_	18.00	4.00	17.00	_	0.20	2.80	A 4 -18	3202834	1000
	6	10	silver	-	10.00	4.70	9.00		0.20	3.50	A 6 -10	3202520	500
	6	10	silver	_	12.00	4.70	11.00	_	0.20	3.50	A 6 -12	3200328	500
	10	8	silver	-	12.00	5.80	10.80	-	0.20	4.50	A 10 -12	3200331	500
	10	8	silver	_	18.00	5.80	16.80	_	0.20	4.50	A 10 -12	3200331	500
	16	6	silver	_	12.00	7.50	10.50	-	0.20	5.80	A 16 -12	3200425	100
	25¹)	4	silver	-	12.00	9.50	10.00	-	0.20	7.30	A 25 -12	3200357	100
	25	4	silver	_	15.00	9.50	13.00	_	0.20	7.30	A 25 -15	3200360	100
	25	4	silver	_	18.00	9.50	16.00	_	0.20	7.30	A 25 -18	3200373	100
	25¹)	4	silver	-	20.00	9.50	18.00	-	0.20	7.30	A 25 -20	3200386	100
	35	2	silver	-	18.00	11.00	16.00	-	0.20	8.30	A 35 -18	3200399	100
	35¹)	2	silver	_	20.00	11.00	18.00	_	0.20	8.30	A 35 -20	3200409	100

Ferrules with insulating collar, according to DIN 46228-4

- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- The insulation reliability of close connections is increased and the splicing of wires is prevented
- The Al 0,25.. can also be used to process conductors with a cross section of 0.14 mm²





Conductor cross sections from 0.14 to 120 mm²

Notes:

1) These ferrules are not included in DIN 46228-4:1990-09.

(1)

	Technical data	Technical data
General data		
Material / coating		E-CU / tin-plated (galvanic)
Plastic sleeve material		polypropylene
Long/short-term temperature		105 °C / 120 °C

								Ordering data					
Description	Cros	s section	Color			Dim	ensions [r	nm]			Туре	Order No.	Pcs./
	[mm ²]	AWG		а	b	d	h	i	j	k	Туре	Order No.	Pkt.
Ferrules, with plastic sle 1990-09, CSA-certified	eeve, color range	as per DIN 46	6228-4:										
1000 00, 0071 00111100	0.251)	22	yellow	-	10.50	2.00	6.00	0.25	0.15	0.80	AI 0.25- 6 YE	3203024	100
	0.251)	22	yellow	-	12.50	2.00	8.00	0.25	0.15	0.80	AI 0,25-8 YE	3203037	100
	0.5	20	white	-	12.00	2.50	6.00	0.25	0.15	1.10	AI 0,5 - 6 WH	3200687	100
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5 - 8 WH	3200014	100
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5 - 8 WH -1000	3200881	1000
	0.5	20	white	-	16.00	2.50	10.00	0.25	0.15	1.10	AI 0,5-10 WH	3201275	100
	0.51)	20	white	-	18.00	2.50	12.00	0.25	0.15	1.10	AI 0,5 -12 WH	3200506	100
	0.75	18	gray	-	12.00	2.80	6.00	0.25	0.15	1.30	AI 0,75-6 GY	3200690	100
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75-8 GY	3200519	100
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75-8 GY -1000	3200894	1000
	0.75	18	gray	-	16.00	2.80	10.00	0.25	0.15	1.30	AI 0,75-10 GY	3201288	100
	0.75	18	gray	-	18.00	2.80	12.00	0.25	0.15	1.30	AI 0,75-12 GY	3200849	100
	1	18	red	-	12.00	3.00	6.00	0.30	0.15	1.50	AI 1 - 6 RD	3200742	100
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 RD	3200030	100
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 RD -1000	3200904	1000
	1	18	red	-	16.00	3.00	10.00	0.30	0.15	1.50	AI 1 -10 RD	3200182	100
	1	18	red	-	18.00	3.00	12.00	0.30	0.15	1.50	AI 1 -12 RD	3200674	100
	1.5 ¹)	16	black	-	12.00	3.40	6.00	0.30	0.15	1.80	AI 1,5 - 6 BK	3200755	100
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5 - 8 BK	3200043	100
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5 - 8 BK -1000	3200917	1000
	1.5	16	black	-	18.00	3.40	10.00	0.30	0.15	1.80	AI 1,5-10 BK	3200195	100
	1.5	16	black	-	18.50	3.40	12.00	0.30	0.15	1.80	AI 1,5 -12 BK	3201482	100
	1.5	16	black	-	24.00	3.40	18.00	0.30	0.15	1.80	AI 1,5-18 BK	3200056	100
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5 - 8 BU	3200522	100
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5 - 8 BU -1000	3200920	1000
	2.5 ¹)	14	blue	-	17.00	4.20	10.00	0.30	0.15	2.30	AI 2,5 -10 BU	3202533	100
	2.5	14	blue	-	18.00	4.20	12.00	0.30	0.15	2.30	AI 2,5 -12 BU	3200962	100
	2.5	14	blue	-	24.00	4.20	18.00	0.30	0.15	2.30	AI 2,5 -18 BU	3200580	100
	4	12	gray	-	17.00	4.80	10.00	0.30	0.20	2.80	AI 4 -10 GY	3200535	100
	4	12	gray	-	19.00	4.80	12.00	0.30	0.20	2.80	AI 4 -12 GY	3200959	100
	4	12	gray	-	26.00	4.80	18.00	0.30	0.20	2.80	AI 4 -18 GY	3200593	100
	6	10	yellow	-	20.00	6.20	12.00	0.30	0.20	3.50	AI 6 -12 YE	3200548	100
	6	10	yellow	-	26.00	6.20	18.00	0.30	0.20	3.50	AI 6 -18 YE	3200603	100
	10	8	red	-	22.00	7.50	12.00	0.30	0.20	4.60	AI 10 -12 RD	3200551	100
	10	8	red	-	28.00	7.50	18.00	0.30	0.20	4.60	AI 10 -18 RD	3200616	100
	16	6	blue	-	24.00	8.80	12.00	0.40	0.20	5.80	AI 16 -12 BU	3200564	100
	16	6	blue	-	28.00	8.80	18.00	0.40	0.20	5.80	AI 16 -18 BU	3200629	100
	25	4	yellow	-	30.00	11.00	16.00	0.50	0.20	7.30	AI 25 -16 YE	3200577	50
	25	4	yellow	-	32.00	11.00	18.00	0.50	0.20	7.30	AI 25 -18 YE	3201505	50
	25	4	yellow	-	35.00	11.00	22.00	0.50	0.20	7.30	AI 25 -22 YE	3200700	50
	35	2	red	-	30.00	12.50	16.00	0.50	0.20	8.30	AI 35 -16 RD	3200441	50
	35	2	red	-	32.00	12.50	18.00	0.50	0.20	8.30	AI 35 -18 RD	3201495	50
	35	2	red	-	39.00	12.50	25.00	0.50	0.20	8.30	AI 35 -25 RD	3200713	50
	50	1/0	blue	-	36.00	15.00	20.00	0.60	0.35	10.30	AI 50 -20 BU	3200454	50
	50	1/0	blue	-	40.00	15.00	25.00	0.60	0.35	10.30	AI 50 -25 BU	3200726	25
	70¹)	2	yellow	-	37.00	16.00	20.00	0.60	0.35	12.70	AI 70 -20 YE	3201848	25
	95¹)	4	red	-	44.00	18.00	25.00	0.60	0.35	14.70	AI 95 -25 RD	3201853	25
	120¹)	5	blue	-	48.00	21.00	27.00	0.70	0.45	16.70	Al120 -27 BU	3201822	25

MSTB mounting flange/coding tab

Notes:

Please refer to the notes for the mounting flanges on page 36.

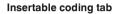


Additional fastening for horizontal and vertical MSTB headers

	Ordering dat	а	
Description	Туре	Order No.	Pcs. / Pkt.
Mounting flange , for fixing both ends of the header onto the PCB, with M2 x 14 screws and nuts	MSTB-BF	1759981	50
Coding tab, for MSTB headers, for dividing headers, plugged onto the header pin, made from green insulation material			
Pair of guide rails, inserted into the groove of ICVG, for accommodating a printed circuit board (mother/daughter PCB connection) height: 86 mm, hole diameter: 3.4 mm			
Strain relief , for 5.08 mm pitch FKIC plugs, snapped into the latching chambers of the connection plugs			
4 to 7-pos. ≥ 8-pos.			

MSTB mounting flange/coding tab







Pair of guide rails for ICV...G

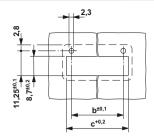


Pull-out aid for FKC plug with 5.08 mm pitch



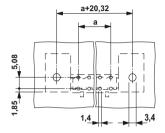
Ordering dat	Ordering data			ta	Ordering data			
Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.	Туре	Order No.	Pcs. / Pkt.
MSTB-BL	1755477	100						
			FLRP/ICV 80	1808353	10			
						STZ 4-FKC-5,08	1876877	50
						STZ 8-FKC-5,08	1876880	50

Sheet metal cutout dimensions/drilling diagrams/dimensional drawings

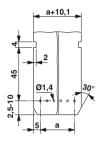


Sheet metal cutout dimensions for DFK-MC 1,5/...-GF, see page 240.

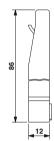
Number of positions	b	С
2	13.81	18.50
3	17.62	22.30
4	21.43	26.10
5	25.24	29.90
6	29.05	33.80
7	32.86	37.60
8	36.67	41.40
9	40.48	45.10
10	44.29	49.00
11	48.10	52.80
12	51.91	56.60
13	55.72	60.40
14	59.53	64.20
15	63.34	68.00
16	67.15	71.90



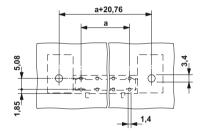
Drilling diagram for ICV 2,5/...-G-5,08 with FLRP-ICV 80, see page 333.



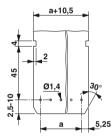
PCB cutout for ICV 2,5/...G-5,08 with FLRP-ICV 80, see page 333.



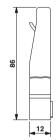
FLRP-ICV 80, see page 332.



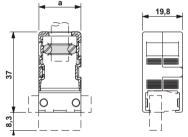
Drilling diagram for GICV 2,5/...-G-7,62 with FLRP-ICV, see page 347.



PCB cutout for GICV 2,5/...-G-5,08 with FLRP-ICV 80, see page 347.



FLRP-ICV 80, see page 346.



KGG-MSTB 2,5/.., see page 348.

Cable housing	Plugs
KGG-MSTB 2,5/3	GMSTB 2,5/2-ST*
KGG-MSTB 2,5/4	GMSTB 2,5/3-ST
KGG-MSTB 2,5/6	GMSTB 2,5/4-ST*
KGG-MSTB 2,5/7	GMSTB 2,5/5-ST
KGS-MSTB 2,5/9	GMSTB 2,5/6-ST*
KGS-MSTB 2,5/10	GMSTB 2,5/7-ST
KGS-MSTB 2,5/12	GMSTB 2,5/8-ST*
KGS-MSTB 2,5/13	GMSTB 2,5/9-ST
KGS-MSTB 2,5/15	GMSTB 2,5/10-ST*
KGS-MSTB 2,5/16	GMSTB 2,5/11-ST
KGS-MSTB 2,5/18	GMSTB 2,5/12-ST*

KGG-MSTB 2,5 and KGS-MSTB 2,5 can be combined with
GMSTB 2,5/ST and GMSTB 2,5/ST-7,62.

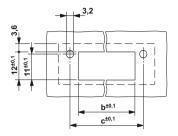
* The cable housing pitch	is approximately 2 m	m wider than
that of the plugs.		

	c	
	b	
£,		
13,5+0.5		
4 4		
	3,5	

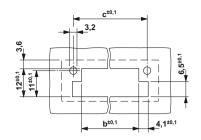
Sheet metal cutout dimensions for IC-DFR..., see page 350.

Number of positions	b	С
2	21.00	26.83
3	26.08	31.91
4	31.16	36.99
5	36.24	42.07
6	41.32	47.15
7	46.40	52.23
8	51.48	57.31
9	56.56	62.39
10	61.64	67.47
11	66.72	72.55
12	71.80	77.63
13	76.88	82.71
14	81.96	87.79
15	87.04	92.87
16	92.12	97.95

Sheet metal cutout dimensions/drilling diagrams/dimensional drawings

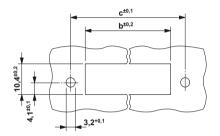


Sheet metal cutouts for DFK-MSTB 2,5/...-G, see page 352.



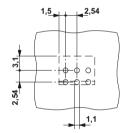
Sheet metal cutouts for DFK-MSTB 2,5/...-GF, see page 353.

Number of	5.0	pitch	5.08	pitch
positions	b	С	b	С
2	12.7	20	13.18	20.32
3	17.7	25	18.26	25.40
4	22.7	30	23.34	30.48
5	27.7	35	28.42	35.56
6	32.7	40	33.50	40.64
7	37.7	45	38.58	45.72
8	42.7	50	43.66	50.80
9	47.7	55	48.74	55.88
10	52.7	60	53.82	60.96
11	57.7	65	58.90	66.04
12	62.7	70	63.98	71.12
13	67.7	75	69.06	76.20
14	72.7	80	74.14	81.28
15	77.7	85	79.22	86.36
16	82.7	90	84.30	91.44

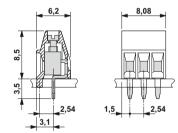


Sheet metal cutout dimensions for DFK-MSTB(V)A 2,5/...-G(F), see page 354.

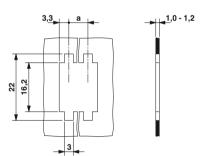
Number of	DFK	G	DFK.	GF
positions	b	С	b	С
2	12.54	19.76	20.65	29.92
3	17.62	24.84	25.73	35.00
4	22.70	29.92	30.81	40.08
5	27.78	35.00	35.89	45.16
6	32.86	40.08	40.97	50.24
7	37.94	45.16	46.05	55.32
8	43.02	50.24	51.13	60.40
9	48.10	55.32	56.21	65.48
10	53.18	60.40	61.29	70.56
11	58.26	65.48	66.37	75.64
12	63.34	70.56	71.45	80.72
13	68.42	75.64	76.53	85.80
14	73.50	80.72	81.61	90.88
15	78.58	85.80	86.69	95.96
16	83.66	90.88	91.77	101.04



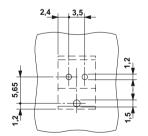
Drilling diagram for MPT 0,5/...-2,54, 2 to 3-pos.The 2 and 3-pos. versions have an additional locating pin (1.5 mm long) to support the mechanical load.



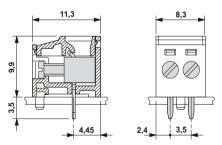
MPT 0,5/...-2,54, 2 to 3-pos., see page 83.



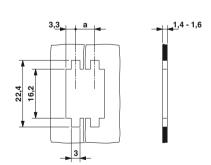
Panel feed-through for CIOC...FL, see page 65. Dimension a = 6.5 mm



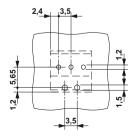
Drilling diagram for MKDSFW 1,5/2-3,5



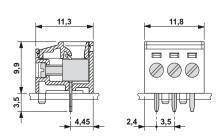
MKDSFW 1,5/2-3,5 with locating pin, see page 87.



Panel feed-through for CIOC...FL, see page 65. Dimension a = 6.5 mm

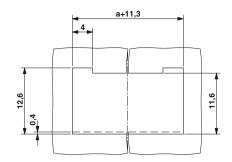


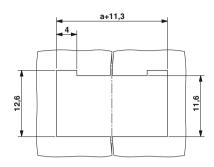
Drilling diagram for MKDSFW 1,5/3-3,5

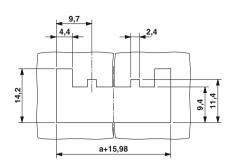


MKDSFW 1,5/3-3,5 with locating pin, see page 87.

Sheet metal cutout dimensions/drilling diagrams/dimensional drawings



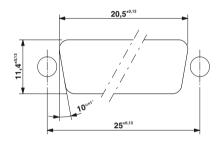


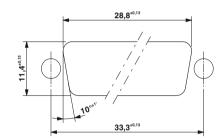


DMC 1,5/...-G1F-3,5-LR P20THR, see page 186.

DMCV 1,5/...-G1F-3,5-LR P20THR, see page 187.

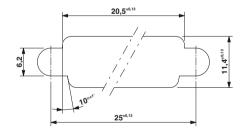
CC(V)2,5/...-GF-5,08-LR P26THR, see page 299.

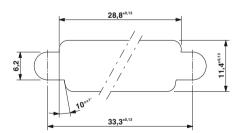




Mounting cutout according to DIN 41652-3 for panel thickness of up to 2.0 mm PSC 1,5/3..M(-PE) See page 251.

Mounting cutout according to DIN 41652-3 for panel thickness of up to 2.0 mm PSC 1,5/5..M(-PE) See page 251.





Mounting cutout according to DIN 41652-3 for panel thickness of up to 4.5 mm PSC 1,5/3..M(-PE) See page 251.

Mounting cutout according to DIN 41652-3 for panel thickness of up to 4.5 mm PSC 1,5/5..M(-PE) See page 251.

COMBICON accessories

Sheet metal cutout dimensions/drilling diagrams/dimensional drawings

Quality in quantity



Integrated management system

The aim of the Phoenix Contact integrated management system is to coordinate all the requirements regarding products, processes, and organization.

Statutory and regulatory requirements, as well as those of international standards and our customers, are met and, in some cases, even exceeded in all phases of the product lifecycle.

In the Phoenix Contact management system, the integration of quality, environmental protection, and safety in the workplace is monitored each year for conformance by internationally recognized independent bodies. Certification in accordance with international standards ISO 9001, ISO 14001, and BS OHSAS 18001 is the result of our corporate philosophy of meeting the needs of our customers, staff, and environment as best as possible. They serve as the basis for innovative products with the familiar high Phoenix quality standard, actively practiced environmental protection, and responsibility in the field of occupational health and safety. It goes without saying that we integrate all further requirements of standards, international approvals or special customer requirements into our company processes.

This system provides a building block for the success of the Phoenix Contact Group and its products and services.

CE marking

The CE mark was introduced as an important instrument for the free movement of goods and services within the single European market. By attaching the mark to a product, the manufacturer confirms that it complies with all applicable European Union (EU) directives. EC directives describe the product properties with regard to device safety and avoiding danger. These are legally binding regulations of the European Union (EU). In other words, compliance

with the requirements is a statutory condition for marketing the product within the EU.

Where applicable, the products that our company currently manufactures fall within the scope of the following directives:

- 2006/95/EC Electrical equipment designed for use
- within certain voltage limits (Low Voltage Directive)
- 2004/108/EC Electromagnetic compatibility (EMC Directive)
- 2006/42/EC Safety of machinery (Machinery Directive)
- 94/9/EC Equipment and protective systems intended for use in potentially explosive areas (ATEX Directive 100a)
- 1999/5/EC Radio and telecommunications terminal equipment (R&TTE)

The standards upon which the specified directives are based have been part of our standard of development for a long time. This guarantees conformance with European directives. The numbers of the directives indicate their version at the time of publication. In the event of changes to directives and/or standards, our products will undergo conformity assessment again in good time and a new declaration of conformity will be issued promptly. The current declarations for each product can also be found in our Download Center.

The EMC Directive occupies a special place among the European directives listed. It defines electromagnetic compatibility as a fundamental property of devices based on mandatory guidelines. European Law therefore acknowledges the electromagnetic compatibility of devices and systems as an important condition for error-free operation of machinery and systems. Phoenix Contact is one of the leading international companies in surge protection, and therefore possesses broad expertise in EMC. This expertise and the experience gained over years of developing and applying industrial interface and communication technology have resulted in our products having an extremely high standard of quality with regard to electromagnetic compatibility. It was with a view to providing other companies with this expertise that our associate company, Phoenix Testlab, was founded. Phoenix Testlab GmbH is an independent, accredited service provider offering EMC testing that conforms to European standards. At Phoenix Testlab,

devices are also tested with regard to their electrical safety, mechanical influences, and their behavior in relation to environmental influences. Furthermore. Phoenix Testlab is a "Notified Body" in accordance with EMC Directive 2004/108/EC and according to R&TTE Directive 1999/5/EC for radio and telecommunications terminal equipment. As a "Telecom Certification Body" (TCB), Phoenix Testlab may also approve these products for markets in the USA, Canada, and Japan.

Standards and regulations

All relevant standards and regulations are used as the basis for the development and maintenance of our products.

International standards are subject to continuous changes as a result of harmonization and new developments. In line with this process, the current version of all standards that are relevant to our products is documented on the Internet at www.phoenixcontact.net/products.

Online product information service on the web

Phoenix Contact's product range is growing constantly.

Due to our commitment to product monitoring, all products are subject to improvement.

The Internet is an ideal platform to quickly communicate new product developments and improvements to the market.

You can quickly access the relevant Phoenix Contact website for your region via www.phoenixcontact.com. Here, you will always find the latest overview of products, solutions, and services from Phoenix Contact. This includes technical documents, such as data sheets and user manuals, the latest driver and demo software, plus a means of contacting the appropriate contact person directly.

Note:

Subject to changes that serve the purpose of technical progress.

Connection cross section

The connection capacity for plug-in connectors and PCB terminal blocks is documented in the technical data. The connection capacity defines the conductor cross section which can be connected for conductors in solid (single and multistrand) or stranded (fine-strand) versions. Cross section ranges are also specified for the use of ferrules. In addition, ranges where two conductors in solid and stranded versions are to be simultaneously connected are also mentioned.

Phoenix Contact PCB terminal blocks and plug-in connectors are designed to allow copper conductors to be connected to them untreated. "Special treatment" or the use of ferrules is not required. "Special treatment" includes tin-plating the litz wires of a conductor, using cable lugs, bending the eyes, etc. However, it does not include straightening the conductor before inserting it into the terminal block or twisting a multi-strand conductor in order to consolidate its ends.

If ferrules are nevertheless used to protect stranded conductors against splicing, the connection capacity of the stranded conductor is generally reduced by one level. Conductors must not be soldered ("soldering all litz wires of a conductor together").

It is always recommended that you use Phoenix Contact CRIMPFOX crimping tools to crimp ferrules.

Cross	Single	-strand	Multi-	strand	Fine-s	strand	1		Americar	Wire Gaug	e [AWG]		
section [mm ²]	Diameter Max. dimension	Number of wires	Diameter Max. dimension	Number of wires (minimum number)	Diameter Max. dimension	Number of wires (guide value)	Gauge No.	[Ø mm]	Solid wires [circ. miles]	[mm²]	[Ø mm]	Stranded wires [circ. miles]	[mm²
0.2	0.5	1	-	-	-	-	24	0.51	404	0.21	-	-	-
0.5	0.9	1	1.1	7	1.1	16	20	0.81	1022	0.52	0.97	1111	0.56
0.75	1.0	1	1.2	7	1.3	24	18	1.02	1620	0.82	1.16	1600	0.82
1	1.2	1	1.4	7	1.5	32	(17)	1.15	2050	1.04			
-	-	-	-	-	-	-	16	1.29	2580	1.31	1.50	2580	1.32
1.5	1.5	1	1.7	7	1.8	30	(15)	1.45	3260	1.65			
-	-	-	-	-	-	-	14	1.63	4110	2.08	1.85	4100	2.09
2.5	1.9	1	2.2	7	2.3	50	(13)	1.83	5180	2.63			
-	-	-	-	-	-	-	12	2.05	6530	3.31	2.41	6500	3.32
4	2.4	1	2.7	7	2.9	56	(11)	2.30	8230	4.17			
-	-	-	-	-	-	-	10	2.59	10380	5.26	2.95	10530	5.37
6	2.9	1	3.3	7	3.9	84	(9)	2.91	13100	6.63			
-	-	-	-	-	-	-	8	3.26	16510	8.37	3.73	16625	8.48
10	3.7	1	4.2	7	5.1	80	(7)	3.67	20800	10.56	4.15	20820	10.55
-	-	-	-	-	-	-	6	4.12	26240	13.30	4.67	26250	13.39
16	4.6	1	5.3	7	6.3	126	(5)	4.62	33100	16.77	5.24	33100	16.77
-	-	-	-	-	-	-	4	5.19	41740	21.15	5.90	41650	21.24
25	-	-	6.6	7	7.8	196	3	5.83	52600	26.67	6.61	52630	26.67
35	-	-	7.9	7	9.2	276	2	6.54	66360	33.62	7.42	66150	33.74
-	-	-	-	-	-	-	1	7.35	83690	42.41	8.33	83706	42.69
50	-	-	9.1	19	11	396	0	8.25	105600	53.51	9.35	104640	53.36
70	-	-	11	19	13.1	360	00	9.27	133100	67.44	10.52	132300	67.47

Degrees of protection according to DIN EN 60529

Definition:

IP (Ingress Protection) protection according to DIN EN 60529 is defined by two digits (e.g., IP54), the meaning of which is explained in the following tables.

Degree of protection against access to dangerous parts and against solid foreign objects

First digit	Short description	Example	Definition
0	Not protected		
1	Protected against solid foreign objects	50 4	Protected against touching dangerous parts with the back of the hand. Protection against ingress of solid foreign objects with \varnothing > 50 mm.
2	Protected against solid foreign objects with Ø 12.5 mm or more	(12,5)	Protected against touching dangerous parts with a finger. Protection against ingress of solid foreign objects with \emptyset > 12.5 mm.
3	Protected against solid foreign objects with Ø 2.5 mm or more		Protected against touching dangerous parts with a tool. Protection against ingress of solid foreign objects with \varnothing > 2.5 mm.
4	Protected against solid foreign objects with Ø 1 mm or more		Protected against touching dangerous parts with a wire. Protection against ingress of solid foreign objects with \varnothing > 1 mm.
5	Protected against dust		Protected against touching dangerous parts with a wire. The ingress of dust is not completely prevented, but dust may not enter in such an amount that the satisfactory operation of the device or its safety is impaired.
6	Dust-proof		Protected against touching dangerous parts with a wire. No ingress of dust.

Degree	of protection against	water	
Second digit	Short description	Example	Definition
0	Not protected		
1	Protected against dripping water	4	Vertically falling drops shall have no effect.
2	Protected against dripping water if the housing is inclined at an angle of up to 15°	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Vertically falling drops shall have no effect if the housing is inclined at an angle of up to 15° either side of the vertical.
3	Protected against spray water	4	Water that is sprayed at an angle of up to 60° either side of the perpendicular shall have no harmful effect.
4	Protected against splash water	辦	Water that splashes against the housing from any direction shall have no harmful effect.
5	Protected against jet water	→	Water that is directed as a jet against the housing from every direction shall have no harmful effect.
6	Protected against powerful jet water	X ₹ X	Water that is directed as a strong jet against the housing from every direction shall have no harmful effect.
7	Protected against the effect of temporary submersion in water		Water may not penetrate in a harmful quantity when the housing is temporarily submerged in water under standard pressure and time conditions.
8	Protected against the effect of continuous submersion in water	4	Water may not penetrate in a harmful quantity when the housing is submerged in water continuously under conditions to be agreed between the manufacturer and user.
9K	Protected against water during high-pressure and jet-stream cleaning		Water that is directed against the housing under extremely high pressure from every direction shall have no harmful effect. (Example: IP69K according to DIN 40050 Part 9)

For safety reasons, electrical equipment must b protected against external influences. This is the job of the housing, which protects electrical equipment against contact, the penetration of soli objects, dust, and moisture.

The following table contains possible combinations of degrees of protection according to DIN EN 60529 which can be practically applie to housing.

Shock protection

No shock protection

Back of hand safe

wires, etc. > 1 mm Ø

Protection against touching with tools, wires, etc. > 2.5 mm \varnothing

Protection against touching with tools,

Protection against touching with tools, wires, etc. > 1 mm \varnothing

Protection against touching with tools, wires, etc. > 1 mm \varnothing

Touch proof

al equipment must be luences. This is the tects electrical e penetration of solid s possible rotection according be practically applied	Protection against water	No protection	Protection against vertically falling dripping water	Protection against dripping water if the housing is inclined at an angle of up to 15°	Protection against spray water from all directions, even when inclined at an angle of up to 60°	Protection against splash water from all directions	Protection against jet water from all directions	Protection against powerful jet water from all directions	Protection against temporary submersion	Protection against the effects of continuous submersion in water	Protected against water during high-pressure and jet-stream cleaning (DIN 40050-9)
Foreign object protection		IPx0	IPx1	IPx2	IPx3	IPx4	IPx5	IPx6	IPx7	IPx8	IPx9K
No protection against solid foreign objects	IP0x	IP00									
Protection against solid foreign objects > 50 mm Ø	IP1x	IP10	IP11	IP12							
Protection against solid foreign objects > 12.5 mm Ø	IP2x	IP20	IP21	IP22	IP23						
Protection against solid foreign objects > 2.5 mm Ø	IP3x	IP30	IP31	IP32	IP33						
Protection against solid foreign objects > 1.5 mm Ø	IP4x	IP40	IP41	IP42	IP43	IP44					
Protection against harmful dust accumulations inside the device	IP5x	IP50				IP54	IP55				
No ingress of dust	IP6x	IP60					IP65	IP66	IP67	IP68	IP69K

Our insulation housing is made from various thermoplastic materials. Depending on the application, the best-suited material is selected based on its electrical and mechanical properties.

All plastics used by Phoenix Contact are RoHS-compliant.

All plastics used at Phoenix Contact have been listed with UL (Underwriters Laboratories Inc.) in the USA.

Behavior of plastics under the influence of temperature (operating temperatures)

All plastics undergo thermal aging when they are subjected to heat over long periods. This process causes changes in the mechanical and electrical properties of the material. External influences, e.g., radiation, additional mechanical, chemical or electrical stresses, amplify this effect. All characteristic data included in the table has been determined using samples and so provides a good means of drawing comparisons between different plastics. However, applying these characteristics to an evaluation of molded plastic parts is only possible to a limited extent, and can only give the designer a rough guide when it comes to selecting a plastic material. This catalog uses RTI Elec according to UL746B as an assessment criterion for temperature resistance.

Insulation materials

Polyamide: PA and PA-GF

Polyamide has excellent electrical, mechanical, and chemical properties even at high operating temperatures. Brief peak temperatures up to approximately 200°C are permitted as a result of heat aging stabilization. The absorption of water makes the plastic flexible and resistant to breakage, even at low temperatures.

Fiber-reinforced polyamides feature greater rigidity and hardness as well as operating temperatures higher than those of non-reinforced materials.

Polyamide for high-temperature applications: PA HT and PA-GF HT

Special high-temperature-resistant types of polyamide are used in non-reinforced or fiberglass-reinforced variants for reflow applications. These high-temperature polyamides combine the excellent electrical properties of polyamide and the requirements of the reflow soldering process for temperature resistance.

Liquid crystal polymers: LCP GF

LCP combines high temperature stability with excellent dimensional stability and creeping resistance for products used in reflow processes. LCP has exceptional mechanical properties across a wide temperature range and a very low thermal expansion.

Polyester: PBT and PBT-GF

We use thermoplastic polyester in non-reinforced and fiberglass-reinforced variants for special applications which require increased dimensional and form

In addition to the high operating temperature, the material is characterized by good mechanical strength and hardness, as well as excellent notched impact strength. PBT does not absorb moisture from its surroundings. PBT is therefore particularly suitable for strips, for example, which are soldered onto PCBs.

Polycarbonate: PC

Polycarbonate combines many advantages such as rigidity, impact strength. transparency, dimensional stability, good insulation properties, and resistance to heat.

The amorphous material only absorbs moisture to a very limited degree, and is used for items such as large, rigid electronic component housing.

In its transparent form, polycarbonate is particularly suitable for use as cover profiles or marking materials.

Acrylonitrile butadiene styrene: ABS

We use ABS for products which must have good impact and notched impact properties in addition to high mechanical stability and rigidity. The products are also characterized by their special surface quality and hardness.

ABS is suitable for coating metallic surfaces, e.g., nickel.

Polyvinyl chloride: PVC

While most thermoplastic materials are processed with injection molding using ready-to-use molding and extrusion material, PVC is processed as a powder in the extruder. This is why it is used in our profile products. PVC is also selfextinguishing without flame protection and has high mechanical strength but is notchsensitive.

Polyoxymethylene: POM

Polyoxymethylene is a technical material that combines high rigidity with mechanical stability, excellent elastic properties, high tenacity, dimensional accuracy, and exceptional sliding friction behavior.

Polyethylene: PE

Polyethylene is characterized by excellent chemical resistance and electrical insulation properties. PE is thermoplastic and can therefore be processed using almost all procedures. Furthermore, PE has excellent tenacity even at low temperatures and a good elongation at break.

Polypropylene: PP

PP has higher rigidity, hardness, and stability and is more heat-resistant than PE. PP is not as tough at low temperatures, however.

Thermoplastic polyurethane: TPU and TPU-GF

TPU is characterized by excellent electrical properties, a good surface feel, a high degree of flexibility over a wide temperature range, and high resistance to wear. Thermoplastic polyurethanes are also elastic and low-temperature impact resistant.

In contrast to non-reinforced materials. fiberglass-reinforced TPU is characterized by high rigidity and hardness.

Irradiated ethylene-propylene-diene polymer/polypropylene: EPDM-PP

EPDM-PP is a polymer blend of PP and irradiated EPDM. EPDM-PP is a rubber-like material which can be processed using thermoplastic procedures. EPDM-PP combines high temperature resistance, a low compression set, and excellent resistance to abrasion and chemicals.

Acrylonitrile butadiene styrene rubber: NBR

NBR is a rubber with excellent resistance to aging. It also features excellent resistance to abrasion and low plastic flow. Its elasticity is lower than other rubbers.

Fluorinated rubber: FPM

FPM rubbers are characterized by very high temperature resistance, but behave less favorably at low temperatures than other rubbers.

Chlorine-butadiene rubber: CR

CR rubber stands out against other rubbers with its excellent resistance to weather and ozone.

Properties	Standard	Unit	PA	PA GF	PA HT	PA GF HT	PBT	PBT GF	LCP GF	PC	ABS	PVC	POM	PP	UP
RTI Elec¹)	UL 746B	°C	≥ 105	≥ 105	≥ 105	≥ 105	≥ 105	≥ 105	≥ 130	≥ 105	≥ 80	≥ 50	≥ 105	65	50
Minimum temperature for use (without mechanical load)		°C	-40	-40	-40	-40	-40	-40	-40	-40	-40	-15	-40	-40	-40
Dielectric strength	IEC 60243-1/ DIN VDE 0303-21	kV/cm	600	400		> 200	400	400		> 300	850		850		
Creep resistance CTI	IEC 60112/ DIN VDE 0303-1		600	400	≥ 250	225	600	225	175	175	600	600	600		
Creep resistance CTIM	IEC 60112/ DIN VDE 0303-1		550	250			600	225		175	600	600	600		
Inflammability class	UL 94	HB - V0	V2, V0	HB, V0	V0	V0	V0	V0	V0	V2, V0		V0	НВ	НВ	НВ
Tropical and termite resistance			Good	Good			Good			Good					,

¹⁾ Possible at ">" higher temperatures, but not recommended due to increased aging of plastics and insufficient current carrying capacity.

Properties	Standard	Unit	TPU	TPU GF	EPDM/ PP
RTI Elec	UL 746B	°C	50	50	100
Minimum temperature for use (without mechanical load)		°C	-40	-40	-40
Dielectric strength	IEC 60243-1/ DIN VDE 0303-21	kV/cm	35	35	
Creep resistance CTI	IEC 60112/ DIN VDE 0303-1		600	600	600
Creep resistance CTIM	IEC 60112/ DIN VDE 0303-1		600		
Inflammability class	UL 94	HB - V0	V2	НВ	НВ
Chemical resistance	See chemic	cal resista	nce table)	

Properties	Standard	Unit	NBR	FPM	CR
Operating temperature		°C	£ 100	£ 200	£ 100
Minimum temperature for use (without mechanical load)		°C	-40	-25	-40
Dielectric strength	IEC 60243-1/ DIN VDE 0303-21	kV/cm		evant as th materials	
Creep resistance CTI	IEC 60112/ DIN VDE 0303-1				
Creep resistance CTIM	IEC 60112/ DIN VDE 0303-1				
Inflammability class	UL 94	HB - V0	1		

Technical information

Degree of protection, properties of plastic, approvals

	Plas	tics																
	Concentration in %	Temperature in °C	/PA 6	GF	GF								PUR irradiated*	PVC-P (soft)			FPM (Viton)	CR (neoprene)
Chemicals	Conce in %	Temp in °C	PA 66/PA	PA 66 GF	PA 46 GF	PC GF	POM	NBR	G	EPDM	PBT	PUR	PUR ii	PVC-F	PE-LD	TPU	FPM (CR (n
Acetaldehyde			0	0	0	-	0	-	-	0		+	+	+	0	0		0
Acetate			+	+	+	0	0	-	+	0	0	+	+	-	-	-	-	-
Acetic acid	20		-		0	0	+	-	+	+	+	0	0	0	+	-		0
Acetone		20	+				+		+	+	0	0	0	-	+	-		0
Acetophenone Alcohols			+	+	+	0	0	-	+	0	0	+	+			-	-	-
Aldehyde			0	0	0	0	+	0	+	+	+	+	+	+	+	+	0	+ 0
Alkalis, strong			0	-	-		+		+	U	+	-	+	+	0	0	-	-
Alkalis, weak			+	+	+		+	0	+	+	+	+	+	+	+	0	+	0
Amines			+	+	+	-	0		-	0	+	+	+	+	0		-	-
Ammonia	10	20	+				+	0	+	+	+	+	+	0	+	0		+
Benzaldehyde			0	0	0	-	0	-	-	0		+	+	+	0	0	-	0
Benzine		20	+	+	+	0	+	0	0	-	+	+	+	-	-	-	+	-
Benzol		50	+	+	+	+	0	-	0	-	+	0	0	-	0	-	0	-
Benzophenone	40-	20	+	+	+	0	0	-	+	0	0	+	+	-		-	+	-
Boracic acid	100	20	0				0	+		+	+	0	0	0	+	+	+	+
Brake fluid Butyric acid		100	+	-	0	0	+	0		+	+	0	0	0	+	-	0	- 0
Citric acid	10		+	-	U	U	+	+	+	+	+	U	U	+	+	+	+	+
Cyclohexanone	10		+	+	+	0	0	-	+	0	0	+	+			-	-	-
Detergent alkalis	2	100	0				+	+		+	+	+	+		+	+	+	0
Diesel oil			+				+	+	+		+	+	+		+	-	+	-
Diethylamine			+	+	+	-	0			0	+	+	+	+	-	-		-
Dimethylamine			+	+	+	-	0	-	-	0	+	+	+	+	0		-	-
Ester			+	+	+	0	-	-	-	0	+			-	+	-	_	-
Ethanol			0	0	0	0	+	0	+	+	+	+	+	-	+	+	+	+
Ether			+	+	+	•	0		0	0	+	+	+		0	+		-
Formaldehyde Formic acid			0	0	0	- 0	0	-	-	0		+	+	+	0	0	+	0
Fuels			+	+	+	0	+	0	+	+	+	+	+		+	-	+	+
Gear oil		100	+	-	т	U	+	+	U		+	+	+	+	+		+	-
Glacial acetic acid		50		-	-	-	-		0	+	-	-	-	-	+	-	-	-
Greases			+	+	+	+	+	+	0	0				0	+		+	0
Halogens (fluorine, chlorine, bromine, iodine)			-	-	-	+	-	-	-	-	-	-	-	-	-	-	+	-
Hydraulic oil		20	+				0	+		-	+	+	+	-	+	-	+	-
Hydrocarbons, aliphatic			+	+	+	+	+	+	0	0	+	+	+	-	+	+	+	-
Hydrocarbons, aromatic			+	+	+		0		0	0	0	+	+		-		+	-
Hydrocarbons, chlorinated Hydrocarbons, unsaturated chlorinated			0	0	0	-	+	-	-	-	0	- 0	0	-	-	-	+	
Hydrochloric acid		20	-	U	U		+	0	+	0	0	-	-		+	0	+	0
Inorganic salt solutions		20	+	+	+		+	+	+	+	+	+	+	+	+	+	+	Ū
Kerosene		20	+				+				+	+	+	-	0	-	+	-
Ketones			+	+	+	0	0		+	0	0	+	+		-	-	-	-
Lactic acid	10	20	+				+	+	+	+	+	+	+	-	+	+	+	+
Machine oil			+				+				+	+	+	0	+	-	+	-
Metal chloride			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Metal nitrate			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Metal sulfate Methanol			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Methylamine			+	0	+	0	+	0	+	+	+	+	+	+	+	+	0	+
Mineral oil			+	+	+		+	+	+	-	+	+	+	-	+	-	+	
Motor oil		120	+	+	+	0	+	+	+		+	+	+		+		+	-
Nitric acid	30	20	-	0	-	0			+	0	0	0	0		+	-	+	
Nitrobenzene			0				0	-		0	+	-	-	-	0	+	0	-
Ozone			0	0	0	-	0	-	+	+	+	0	0	+	+	0	+	-
Potassium hydroxide solution			+	+	+	-	+	0	+		-	+	+	+	+	0	+	-
Propyl alcohol			0	0	0	0	+	0	+	+	+	+	+	-	+	+	+	+
Seawater		20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sodium hydroxide solution	50	50	0	0	+	-	+	+	+	+		+	+	+	+	0	0	0
Sulfuric acid Turpentine	50	50	- 0	0	0	0	-	-	+	+	-	0	0	+	+	0	+	-
UV resistance			+	+	+	+	0	+			+	+	+	0	0	+	+	
Water (dist.)		20	ŕ	-	r	3	J				т	т	T	+	J	r	r	
		_															+	+
Water, cold			+	+	+	+	+	+	+	+	+	+	+	+	+	+	т —	

⁻ Not resistant

Moderately resistant
 Resistant

^{*} The irradiated PUR type is generally more resistant than the non-irradiated type. This cannot be quantified and must be checked in individual cases.

The information in the table has been gathered from the recommendations of our plastic suppliers.

Since individual operating conditions can also affect the usability of each product, this information should be used as a guide only.

 $For applications \ where \ no \ prior \ experience \ exists, \ we \ recommend \ that \ the \ user \ carries \ out \ preliminary \ tests.$

Insulation coordination for equipment within low-voltage systems

Dimensioning of air and creepage distances according to DIN EN 60664-1/ VDE 0110-1.

This part of the standard, based on IEC 60664, contains specifications for the insulation coordination of items of equipment in low-voltage systems. This part is applicable for items to be used at a height of up to 2000 m above sea level. This basic safety standard is primarily aimed at technical committees, and if suitable product directives are not available for an item, it can be used at one's own responsibility. International and European product standards cited in this catalog contain specifications for insulation coordination in accordance with DIN EN 60664/VDE 0110-1.

Insulation coordination

Insulation coordination includes the selection of electrical insulation properties for items as regards intended applications and ambient conditions. Separate requirements must be applied for air and creepage distances and for rigid insulation. The surge voltages to be expected, characteristics of surge protective devices, and pollution at the intended site must be considered when dimensioning clearances. Clearances are then dimensioned according to the external or internal surge voltages to be expected. Different surge voltages, grouped into categories, i.e., a value that determines an impulse withstand voltage, ascertain the required clearance directly. These surge voltage categories (I to IV) are mainly based on a statistical study, and are used for the items that are directly supplied by low-voltage networks. Definitions of the individual categories are provided below as an extract of DIN EN 60664/VDE 0110-1.

The clearances can be calculated according to Table 2 (minimum clearances) depending on the homogeneity level of the field between the electrodes (case A - nonhomogeneous field, case B - homogeneous field).

Clearances according to case A are capable of withstanding the assigned surge voltages under all conditions. Items that are dimensioned according to case A can therefore be used without any further testing. Clearance values according to case B are based on ideal conditions. Clearance values which fall between case A and case B must be proven by means of a surge voltage test.

The voltages present, the properties of insulation materials, the pollution to be expected, and safety measures against pollution are considered when dimensioning creepage distances.

The effect of pollution is considered when determining the air and creepage distances according to three intensity levels (pollution degree 1 to 3).

The creepage distance is based on the rated voltage that is derived from the working voltage or nominal mains voltage. The minimum creepage distances are assigned to the rated voltages according to the pollution degree in Table 4.

If the respective product descriptions do not contain any additional specifications, the products presented in this catalog are dimensioned for surge voltage category III and pollution degree 3 according to this regulation (DIN EN 60664-1/VDE 0110-1).

Surge voltage categories I to IV

- Items in **surge voltage category IV** can be used at the terminal point of the installation.

Note: examples of such items include electricity meters and primary devices for overcurrent protection.

- Items in surge voltage category III can be used in fixed installations and are intended for such cases where there are special requirements for the reliability and availability of the items.

Note: examples of such items include switches in fixed installations and items for industrial use with permanent connection to the fixed installation.

 Items in surge voltage category II are power-consuming items that are supplied by the fixed installation.

Note: examples of such items include household appliances, portable tools, other domestic appliances, and similar devices.

- Items in surge voltage category I can be connected to circuits where measures have been taken to limit the surge voltages to a suitable lower value.

Pollution degrees 1 to 4

The following four pollution degrees have been defined for the micro-environment in order to determine air and creepage distances:

Pollution degree 1

No contamination or only dry, nonconductive contamination is present. The contamination has no influence.

- Pollution degree 2

Only non-conductive contamination is present. Temporary conductivity due to condensation must occasionally be taken into consideration, however.

- Pollution degree 3

Conductive contamination or dry, nonconductive contamination is present which becomes conductive, since condensation is expected.

- Pollution degree 4

Permanent conductivity is present, caused by conductive dust, rain or moisture.

Insulation material

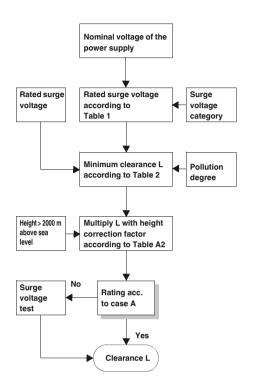
DIN EN 60664/VDE 0110-1 classifies insulation materials into four groups depending on their CTI values that were obtained using solution A in accordance with IEC 60112. These are: Insulation material group I: $600 \leq CTI$ Insulation material group II: $400 \le CTI < 600$ Insulation material group IIIa: 175 ≤ CTI < 400 Insulation material group IIIb: 100 ≤ CTI < 175

The comparative tracking index of the creepage distance must have been determined based on suitable samples using test solution A as specified in **DIN IEC 60112.**

The proof tracking index of the creepage distance (PTI) is used as proof of the creepage current properties of insulation materials.

Dimensioning of clearances

Schematic for determining clearances



Altitude correction factors (extract from Table A.2)

Height in m	Normal air pressure in kPa	Multiplication factor for gaps
2000	80.0	1.00
3000	70.0	1.14
4000	62.0	1.29
5000	54.0	1.48
6000	47.0	1.70
7000	41.0	1.95
8000	35.5	2.25
9000	30.5	2.62
10000	26.5	3.02
15000	12.0	6.67
20000	5.5	14.50

Current carrying capacity

Standard IEC 60947-7-1/ EN 60947-7-1/DIN VDE 0611-1 specifies the test currents for the individual conductor cross sections listed in the adjacent table. The corresponding currents are listed with the connection data for the individual products.

Rated surge voltages for items that are directly supplied by the low-voltage network (extract from Table 1)

Nominal voltage of the power supply system 1) (mains) acc. to IEC 60038 3) [V]		Conductor-neutral conductor voltage derived from the total nominal AC voltage or nominal DC voltage		tated surg [\ rge voltag	/]	•
Three-phase	Single-phase	[V]	- 1	Ш	III	IV
		50	330	500	800	1500
		100	500	800	1500	2500
	120 to 240	150	800	1500	2500	4000
230/400 277/480	120 10 240	300	1500	2500	4000	6000
400/690		600	2500	4000	6000	8000
1000		1000	4000	6000	8000	12000

- 1) Refer to Appendix B for application in existing deviating low-voltage networks and their nominal voltages.
- 2) Items with this rated surge voltage may be used in systems in accordance with IEC 60364-4-443.
- 3) The slash, i.e., /, indicates a three-phase 4-conductor system. The lower value is the conductor-to-neutral conductor voltage, whereas the higher value is the conductor-to-conductor voltage. When only one value is specified, it refers to a three-phase 3conductor system, and indicates the conductor-to-conductor voltage.
- 4) Refer to 2.2.2.1.1 for an explanation of surge voltage categories.

Minimum clearances for surge voltages (extract from Table 2)

Required impulse	Non-ho	Cond omogeneous	ition A field (refer to	1.3.15)	Hom		tion B ld (refer to 1.3.1	4)
withstand voltage 1) 5)		Pollution	degree 6)		Pollution degree 6)			
., %)	1	2	3		1	2	3	
	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	
0.33 ²)	0.01				0.01			
0.40	0.02				0.02			
0.5 ²)	0.04	0.2 3) 4)			0.04			
0.60	0.06	, ,			0.06	0.2 3) 4)		
0.80 ²)	0.10		0.8 4)		0.10	, ,	0.8 4)	
1.0	0.15		0.0 /		0.15		0.0 /	
1.2	0.25	0.25			0.2			
1.5 ²)	0.5	0.5			0.3	0.3		
2.0	1.0	1.0	1.0	1	0.45	0.45		
2.5 ²)	1.5	1.5	1.5		0.6	0.6		
3.0	2.0	2.0	2.0		0.8	0.8		
4.0 ²)	3	3	3	1	1.2	1.2	1.2	
5.0	4	4	4		1.5	1.5	1.5	
6.0 ²)	5.5	5.5	5.5		2	2	2	
8.0 2)	8	8	8		3	3	3	
10	11	11	11		3.5	3.5	3.5	
12 ²)	14	14	14		4.5	4.5	4.5	
15	18	18	18		5.5	5.5	5.5	
20	25	25	25		8	8	8	
25	33	33	33		10	10	10	
30	40	40	40		12.5	12.5	12.5	
40	60	60	60]	17	17	17	
50	75	75	75		22	22	22	
60	90	90	90		27	27	27	
80	130	130	130		35	35	35	
100	170	170	170		45	45	45	

- 1) This voltage is:
- For function insulation: the highest surge voltage expected for the clearance
- For basic insulation, if influenced directly or considerably by surge voltages from the low-voltage network:
- the item's rated surge voltage

 For a different basic insulation: the highest surge voltage possible in the circuit
- 2) Preferred values
- ³) For PCBs, the values of pollution degree 1 are applicable, except that no deviation below the value of 0.04 mm is permitted, as specified in Table 4.
- 4) Minimum clearances for pollution degrees 2 and 3 are based on the corresponding creepage distances. This resistance is reduced
- due to the effects of humidity.

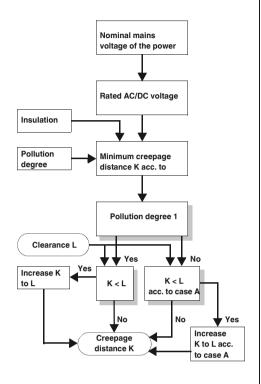
 5) Values can be interpolated for parts or circuits within items that are subjected to surge voltages.
- 6) The distances for pollution degree 4 are equal to those for pollution degree 3, except that the minimum clearance is 1.6 mm.

Test currents according to IEC 60947-7-1/EN 60947-7-1, Table 5

Rated cross section	[mm²]	0.2	0.5	0.75	1.0	1.5	2.5	4	6	10	16
Test current	[A]	4	6	9	13.5	17.5	24	32	41	57	76
Rated cross section	[mm ²]	25	35	50	70	95	120	150	185	240	300
Test current	[A]	101	125	150	192	232	269	309	353	415	520

Dimensioning of creepage distances

Schematic for determining creepage distances



Single-phase 3 or 2-conductor AC or DC voltage systems (extract from Table 3a)

Nominal	Voltages	for Table 4
voltage of the power supply	for conductor-conductor insulation 1)	for conductor-ground insulation 1)
system (mains) *)	All systems	3-conductor systems center point grounded
[V]	[V]	[V]
12.5	12.5	-
24 25	25	-
30	32	-
42 48 50 **)	50	-
60	63	_
30 - 60	63	32
100 **)	100	-
110 120	125	-
150 **)	160	_
220	250	-
110 - 220 220 - 240	250	125
300 **)	320	-
220 - 440	500	250
600 **)	630	-
480 - 960	1000	500
1000 **)	1000	-

- 1) Conductor-ground insulation levels for non-grounded systems or those grounded through impedance correspond to conductor-conductor insulation levels as the operating voltage of every conductor to ground can, in practice, reach the conductor-conductor voltage. This is due to the fact that the actual voltage to ground is determined by the insulation resistance and the capacitive reactance of each conductor to ground. A low (but permissible) insulation resistance of one conductor can thereby practically ground it and increase the other two to conductor-conductor voltage to ground.
- *) Refer to 2.2.1 for correlation with the rated voltage. *) These values correspond to the values in Table 1.

Three-phase 4 or 3-conductor AC voltage systems (extract from Table 3b)

Nominal	V	oltages for Table	e 4
voltage of the power supply system (mains) *)	for conductor- conductor insulation	Three-phase 4-conductor systems with grounded	Three-phase 3-conductor systems non- grounded 1)
D/I	All systems	neutral conductor 2)	or conductor grounded
[V] 60	[V] 63	[V] 32	[V] 63
110/120/127	125	80	125
150 **)	160	-	160
208	200	125	200
220/230/240	250	160	250
300 **)	320	-	320
380/400/415	400	250	400
440	500	250	400
480/500	500	320	500
575	630	400	630
600 **)	630	-	630
660/690	630	400	630
720/830	800	500	800
960	1000	630	1000
1000 **)	1000	_	1000

- 1) Conductor-ground insulation levels for non-grounded systems or those grounded through impedance correspond to conductor-conductor insulation levels as the operating voltage of every conductor to ground can, in practice, reach the conductor-conductor voltage. This is due to the fact that the actual voltage to ground is determined by the insulation resistance and the capacitive reactance of each conductor to ground. A low (but permissible) insulation resistance of one conductor can thereby practically ground it and increase the other two to conductor-conductor voltage to ground.
- 2) For items designed for use in three-phase 4-conductor and three-phase 3-conductor systems, grounded as well as non-grounded, only the values for 3-conductor systems
- *) Refer to 2.2.1 for correlation with the rated voltage
- *) These values correspond to the values in Table 1.

Creepage distances to prevent failures occurring due to creepage (extract from Table 4)

			Mi	nimum creep	age distance:	s				
	Printed	circuits			Pol	lution degree				
Voltage 1)	Pollution	n degree			POI	iulion degree				
r.m.s. value	1	2	1		2			3		
r.m.s. value	All insulation material groups			Insula	Insulation material group			Insulation material group		
		except IIIb		I	II	III	I	II	III ²)	
[V]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
10	0.025	0.04	0.08	0.40	0.40	0.40	1.00	1.00	1.00	
12.5	0.025	0.04	0.09	0.42	0.42	0.42	1.05	1.05	1.05	
16	0.025	0.04	0.10	0.45	0.45	0.45	1.10	1.10	1.10	
20	0.025	0.04	0.11	0.48	0.48	0.48	1.20	1.20	1.20	
25	0.025	0.04	0.125	0.50	0.50	0.50	1.25	1.25	1.25	
32	0.025	0.04	0.14	0.53	0.53	0.53	1.30	1.30	1.30	
40	0.025	0.04	0.16	0.56	0.80	1.10	1.4	1.6	1.8	
50	0.025	0.04	0.18	0.60	0.85	1.20	1.5	1.7	1.9	
63	0.040	0.63	0.20	0.63	0.90	1.25	1.6	1.8	2.0	
80	0.063	0.10	0.22	0.67	0.95	1.3	1.7	1.9	2.1	
100	0.10	0.16	0.25	0.71	1.00	1.4	1.8	2.0	2.2	
125	0.16	0.25	0.28	0.75	1.05	1.5	1.9	2.1	2.4	
160	0.25	0.40	0.32	0.80	1.1	1.6	2.0	2.2	2.5	
200	0.40	0.63	0.42	1.00	1.4	2.0	2.5	2.8	3.2	
250	0.56	1.00	0.56	1.25	1.8	2.5	3.2	3.6	4.0	
320	0.75	1.60	0.75	1.60	2.2	3.2	4.0	4.5	5.0	
400	1.00	2.00	1.00	2.00	2.8	4.0	5.0	5.6	6.3	
500	1.30	2.50	1.30	2.50	3.6	5.0	6.3	7.1	8.0	
630	1.80	3.20	1.8	3.2	4.5	6.3	8.0	9	10.0	
800	2.40	4.00	2.4	4.0	5.6	8.0	10.0	11	12.5	
1000	3.20	5.00	3.2	5.0	7.1	10	12.5	14	16.0	
1250			4.2	6.3	9	12.5	16	18	20	
1600			5.6	8	11	16	20	22	25	
2000			7.5	10	14	20	25	28	32	
2500			10	12.5	18	25	32	36	40	
3200			12.5	16	22	32	40	45	50	
4000			16	20	28	40	50	56	63	
5000			20	25	36	50	63	71	80	
6300	1		25	32	45	63	80	90	100	
8000			32	40	56	80	100	110	125	
10000	1		40	50	71	100	125	140	160	

- 1) This voltage is:
- a) For function insulation: the working voltage b) For basic and additional
- insulation of a circuit supplied directly by the low-voltage network: either the voltage selected from Table 3a or 3b on the basis of the rated voltage of the equipment or the rated insulation voltage
- c) For basic and additional insulation of systems, equipment and internal circuits which are not supplied directly from the mains: the highest r.m.s. value of the voltage that, within the bounds of the rated data, can occur in the system, the equipment or the internal circuit, when supplied with rated voltage and in the case of the most unfavorable combination of operating conditions.
- 2) For pollution degree 3, insulation material group IIIb is not recommended for use if voltages are greater than 630 V.

Technical information

Degree of protection, properties of plastic, approvals

Overview of approval bodies and safety marks

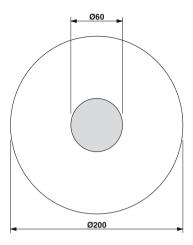
Certification	on bodies and approvals	Country code
CB scheme	IECEE CB Scheme (in combination with certifying body)	Internatio nal
CCA	CENELEC Certification Agreement (CCA inspection report) (in combination with certifying body)	EU
(5)	Canadian Standards Association (CSA)	CA
(l) 91	Underwriters Laboratories Inc. (UL)	US
.	Underwriters Laboratories Inc. (UL) - UL approval for Canada -	CA
. ()	Underwriters Laboratories Inc. (UL) Combined logo - UL approval for the USA and Canada -	US CA
₩	INSIEME PER LA QUALITA'E LA SICUREZZA	ІТ
P	Gosudarstvenne Komitet Standartov (GOST)	RU
Kema	DEKRA Certification B.V.	NL
ÖVE	Österreichischer Verband für Elektrotechnik	АТ
SABS VA CARE NO FREIA	South African Bureau of Standards	ZA
SEV	electrosuisse SEV Verband für Elektro-, Energie- und Informationstechnik	СН
ĎŶĒ ✓DĒ	Verband Deutscher Elektrotechniker e.V. (VDE) - Approval of drawings - Reports with production monitoring	DE
6	Berufsgenossenschaft (BG) GS - Geprüfte Sicherheit	DE
A TŰV	TÜV Rheinland Industrie Service GmbH	DE

€x Explo	sion protection	Country code	Ship classi	fication societies	Country code
FM APPROVED	FM Approvals	US		Bureau Veritas	FR
▶ DEKRA	DEKRA Certification B.V.	NL	(GL)	Germanischer Lloyd AG	DE
PΪΒ	Physikalisch-Technische Bundesanstalt	DE	Lloyds Register	Lloyd's Register EMEA	GB
as International	QS Schaffhausen	СН	ClassNK	Nippon Kaiji Kyokai	JP
√vπ	VTT Expert Services Oy	FI	Ţ <u>ŷ</u>	Det Norske Veritas	NO
IBExU	IBExU Institut für Sicherheitstechnik GmbH	DE	0	Polski Rejestr Statków	PL
<u>@</u>	TÜV Rheinland do Brasil	BR	©	Russian Maritime Register of Shipping	RU
(l) 91	Underwriters Laboratories Inc. (UL)	US	KR *	Korean Register of Shipping	KR
TUV NORD	TÜV Nord	DE	ABS	American Bureau of Shipping	US
▶ DEKRA	DEKRA EXAM GmbH	DE			

Subject to changes that serve the purpose of technical progress.

Shock protection

Touch proof



Back of hand safety

Example: pressure actuation

The accident prevention regulations BGV A 2 issued by the German employer's liability insurance association for precision mechanics and electrical engineering apply to the operators of electrical systems and are aimed at the prevention of electrical accidents by means of special safety requirements.

These regulations contain specifications regarding the safety distances for work, operation, and occasional handling in the proximity of "live parts" in low-voltage systems up to 1000 V \sim or 1500 V -.

Work with live parts is only permitted once they have been de-energized. Operational activities are only permitted in the vicinity of live parts if these parts are de-energized or are protected against direct contact (§ 6). The following safety measures are applicable when working in close proximity to live parts:

- Provision of the de-energized state for the duration of the work
- Ensure shock protection is in place in the form of covers or barriers during the
- Assurance that proximity limits will not be violated (§ 7)

The term "occasional handling" has been introduced for the operation of elements such as pushbuttons, rocker arms or rotary buttons in the proximity of live parts.

In VDE 0105-1, this is covered by "operation with partial protection against direct contact".

Detailed specifications for "occasional handling" can be found in DIN EN 50274. This specifies to what degree live parts in the proximity of operating elements are to be protected against contact. The basis for this is the definition of a "protection area for occasional handling"; this is the area into which the user must reach in order to handle the machine.

The most important thing is that an area formed by an even envelope curve 30 mm in radius must surround the live parts. This area must be touch proof, i.e., the live parts of the electrical device must not be within reach of the VDE test finger in accordance with IEC 60529/ DIN VDE 0470-1 (test finger).

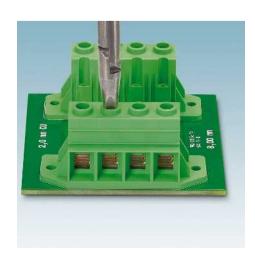


Back of hand safety is specified for the "rest of the area" up to 100 mm around the operating element. Back of hand safety means that when a force of 50 N is applied to a ball with a diameter of 50 mm, this does not come into contact with the live parts of the equipment. No special measures for shock protection are provided outside this area.

Note: systems and equipment that are operated with SELV up to 25 V ~ or 60 V - are considered to be protected against direct contact.

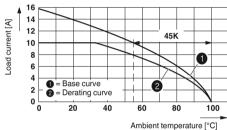
According to BGV A 2, there is no need to test the condition of the system prior to initial startup if the company has confirmation from the manufacturer or installer that the electrical systems and equipment conform to BGV A 2. The confirmation required relates to systems and equipment that have been installed and are ready for operation and can only be issued by the installer or installation company. The manufacturer of the electrical equipment can only issue a confirmation that products have been produced in accordance with the relevant electrotechnical regulations stipulated in BGV A 2. The installer must bear this in mind when selecting the equipment to be

In the field of connection technology, Phoenix Contact offers a wide range of products that are touch proof or that can be protected against contact using covers. Depending on the conditions, all of this must be taken into account when selecting the individual types of terminal block and accessories.



Base and derating curve, test setup, ambient temperature





Current carrying capacity

The technical data shows a rated current strength that does not impair functionality when the ambient temperature and corresponding conductor cross section are taken into account, or does not cause thermal damage to the product. Here, "ambient temperature" refers to the temperature measured in the immediate vicinity of the terminal block. In the application, it is necessary to consider heat sources near the terminal block (e.g., high-load resistors or similar) in particular, which affect the terminal block through radiant heat and/or heat conduction over the conductive path.

EN 60998-1 "Connecting devices for low-voltage circuits for household and similar purposes" limits the permissible heat increase of the conductive parts of terminal points to 45 K. When the upper temperature limit of the insulation material - here, always assumed to be 100°C − is taken into account, these values yield a current carrying capacity dependent on the ambient temperature: the "base curve". Here, the current carrying capacity curve documented according to DIN EN 60512-5-2 shows a current for plug-in connectors that has been reduced by a derating factor of 0.8 from the base curve: the derating curve. For Phoenix Contact PCB terminal blocks, the base curve can be used for the current carrying capacity without the derating factor.

For the application-specific representation of the current carrying capacity of plug-in connectors, determining the derating curve based on various numbers of positions and conductor cross sections has proven itself beyond the method presented in the standard.

Tightening torque of terminal block screws

Tightening torque values have been determined in accordance with IEC 60999-1 for PCB terminal blocks and plug-in connectors with screw connection. The tightening torques provide a secure connection between the conductor and terminal block. They also take into account the stability of the soldering pin and soldering spot, the function of which must not be impaired during the clamping progress.

Anti-rotation protection

2 and 3-pos. terminal blocks in particular are often subjected to high tightening torques, which cannot be absorbed by a few solder pins. Usually these terminal blocks must be supported during conductor connection (held with one hand, housing support). If this is not possible, versions with additional anti-rotation pins are available for many terminal blocks.

Extract from IEC 60999, Table 4

The torque according to IEC and the recommended tightening torque for Phoenix Contact terminal blocks are specified.

Thread	Head screw with slot					
	Torque	Recommended tightening torque				
	[Nm]	[Nm]				
M2.5 (M2.6)	0.4	0.4 - 0.5				
M3	0.5	0.5 - 0.6				
M3.5	0.8	0.8 - 1.0				
M4	1.2	1.2 - 1.5				

Current carrying capacity of conductive paths

The current carrying capacity of the conductive paths on the PCB is decisive for device safety and performance. The width and thickness of a conductive path depend to a large extent on the current strength, the resultant heat loss, the maximum temperature of the PCB, and the ambient temperature.

The conductive path dimensions are defined in IEC 60326-3/DIN IEC 60326-3 taking into consideration the abovementioned factors based on current load curves. Both the conductive path width and thickness are taken into consideration in this representation. The following layer thickness values have become established for the conductive path thickness: 35 µm. 70 μm, and 105 μm, whereby 35 μm and 70 µm are recommended in industrial applications.

Regulations

The international and national standards listed below are of particular relevance for the production of PCBs. Extracts from these standards have been included in various sections, but we recommend that you obtain copies of the standards quoted: IEC 60664/IEC 60664A/DIN VDE 0110-1

 Insulation coordination for equipment within low-voltage systems; basic specifications

IEC 60664/IEC 60664A/VDE 0110-2

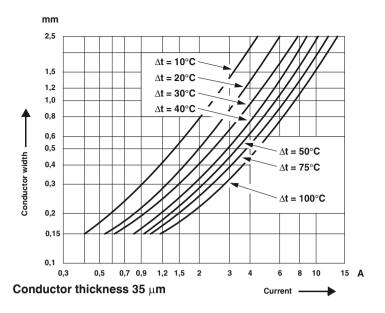
- Insulation coordination for equipment within low-voltage systems; dimensioning of air and creepage distances

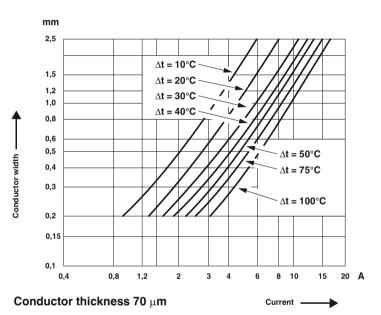
IEC 60097/EN 60097/DIN EN 60097

- Grid systems for printed circuits
- IEC 60249-1/EN 60249-1/DIN EN 60249-1
- Base materials for printed circuits Part 1: Test methods (and other individual regulations)

IEC 60326-3/DIN IEC 60326-3

- PCBs - Part 3: Design and use of PCBs





 Δt = Heating of the PCB as a result of the current

Тур	ne	Order No. Page	Туре	Order No. Page	Туре	Order No. Page	Туре	Order No. Page
A			Al 35 -25 RD Al 50 -20 BU Al 50 -25 BU Al 70 -20 YE	3200713 835 3200454 835 3200726 835 3201848 835	CC 2,5/8-GF-5,08-LR P26THR CC 2,5/9-GF-5,08 P26THR CC 2,5/9-GF-5,08 P26THRR88 CC 2,5/9-GF-5,08-LR P26THR	1792685 299 1954760 299 1954870 303 1792698 299	CCDN 2,5/7-G1F-5,08 P26 THR CCDN 2,5/8-G1 P26 THR CCDN 2,5/8-G1-5,08 P26 THR CCDN 2,5/8-G1F P26 THR	1753352 307 1734339 306 1753190 306 1734504 307
A 0 A 0	,25-5 ,25-7 ,34-7 ,5-6	3202465 834 3202478 834 3009202 834 3200218 834	AI 95 -25 RD AI120 -27 BU AP-ES	3201853 835 3201822 835 5022685 758	CC 2,5/10-GF-5,08 P26THR CC 2,5/10-GF-5,08 P26THRR88 CC 2,5/10-GF-5,08-LR P26THR CC 2,5/11-GF-5,08 P26THR	1954773 299 1954883 303 1792708 299 1954786 299	CCDN 2,5/8-G1F-5,08 P26 THR CCDN 2,5/9-G1 P26 THR CCDN 2,5/9-G1-5,08 P26 THR CCDN 2,5/9-G1F P26 THR	1753365 307 1734342 306 1753200 306 1734517 307
A 0 A 0	,5 - 8 ,5 -10 ,75 - 6 ,75 - 8	3202481 834 3202494 834 3200221 834 3202504 834	В		CC 2,5/11-GF-5,08 P26THRR88 CC 2,5/11-GF-5,08-LR P26THR CC 2,5/12-GF-5,08 P26THR CC 2,5/12-GF-5,08 P26THRR88	1954896 303 1792711 299 1954799 299 1954906 303	CCDN 2,5/9-G1F-5,08 P26 THR CCDN 2,5/10-G1 P26 THR CCDN 2,5/10-G1-5,08 P26 THR CCDN 2,5/10-G1F P26 THR	1753378 307 1734355 306 1753213 306 1734520 307
A 1 A 1		3200234 834 3200247 834 3200250 834	B-STIFT BC 107,6 DKL R KMGY BC 107,6 DKL S TRANS BC 107,6 OT U11 KMGY	1051993 728 2896173 699 2896131 699 2896076 699	CC 2,5/12-GF-5,08-LR P26THR CCA 2,5/2-G-5,08 P26THR CCA 2,5/2-G-5,08 P26THRR32 CCA 2,5/2-G-5,08 RNP26THR	1792724 299 1954919 298 1955031 302 1955167 299	CCDN 2,5/10-G1F-5,08 P26 THR CCDN 2,5/11-G1 P26 THR CCDN 2,5/11-G1-5,08 P26 THR CCDN 2,5/11-G1F P26 THR	1753381 307 1734368 306 1753226 306 1734533 307
A 1 A 1	,5 - 7 ,5 -10 ,5 -12 ,5 -15	3200263 834 3200276 834 3202588 834 3202591 834	BC 107,6 OT U22 KMGY BC 107,6 UT HBUS BK BC 161,6 DKL R KMGY BC 161,6 DKL S TRANS	2896089 699 2896270 699 2278539 700 2278542 700	CCA 2,5/2-G-5,08 RNP26THRR32 CCA 2,5/3-G-5,08 P26THR CCA 2,5/3-G-5,08 P26THRR32 CCA 2,5/3-G-5,08 RNP26THR	1955277 303 1954922 298 1955044 302 1955170 299	CCDN 2,5/11-G1F-5,08 P26 THR CCDN 2,5/12-G1 P26 THR CCDN 2,5/12-G1-5,08 P26 THR CCDN 2,5/12-G1F P26 THR	1753394 307 1734371 306 1753239 306 1734546 307
A 2 A 2	,5 -18 ,5 - 7 ,5 -12 ,5 -18	3202601 834 3200289 834 3200292 834 3202821 834	BC 161,6 OT 000020 KMGY BC 161,6 OT 000022 KMGY BC 161,6 OT 002000 KMGY BC 161,6 OT U11 KMGY	2201450 701 2201454 701 2201451 701 2278513 700	CCA 2,5/3-G-5,08 RNP26THRR32 CCA 2,5/4-G-5,08 P26THR CCA 2,5/4-G-5,08 P26THRR56 CCA 2,5/4-G-5,08 RNP26THR	1955280 303 1954935 298 1955057 302 1955183 299	CCDN 2,5/12-G1F-5,08 P26 THR CCDN 2,5/13-G1 P26 THR CCDN 2,5/13-G1-5,08 P26 THR CCDN 2,5/13-G1F P26 THR	1753404 307 1734384 306 1753242 306 1734559 307
A 4	9	3200302 834	BC 161,6 OT U22 KMGY	2278526 700	CCA 2,5/ 4-G-5,08 RNP26THRR56	1955293 303	CCDN 2,5/13-G1F-5,08 P26 THR	1753417 307
	12	3200315 834	BC 161,6 UT HBUS BK	2278500 700	CCA 2,5/ 5-G-5,08 P26THR	1954948 298	CCDN 2,5/14-G1 P26 THR	1734397 306
	18	3202834 834	BC 17,6 BS U11 KMGY	2896186 698	CCA 2,5/ 5-G-5,08 P26THRR56	1955060 302	CCDN 2,5/14-G1-5,08 P26 THR	1753255 306
	10	3202520 834	BC 17,6 BS U22 KMGY	2896199 698	CCA 2,5/ 5-G-5,08 RNP26THR	1955196 299	CCDN 2,5/14-G1F P26 THR	1734562 307
A 10	1 -12	3200328 834	BC 17,8 DKL R KMGY	2896144 698	CCA 2,5/5-G-5,08 RNP26THRR56	1955303 303	CCDN 2,5/14-G1F-5,08 P26 THR	1753420 307
	0 -12	3200331 834	BC 17,8 DKL S TRANS	2896102 698	CCA 2,5/6-G-5,08 P26THR	1954951 298	CCDN 2,5/15-G1 P26 THR	1734407 306
	0 -18	3200344 834	BC 17,8 OTU MKDSO KMGY	2279732 698	CCA 2,5/6-G-5,08 P26THRR56	1955073 302	CCDN 2,5/15-G1-5,08 P26 THR	1753268 306
	3 -12	3200425 834	BC 17,8 UT HBUS BK	2896241 698	CCA 2,5/6-G-5,08 RNP26THR	1955206 299	CCDN 2,5/15-G1F P26 THR	1734575 307
A 25 A 25	5 -12 5 -15 5 -18 5 -20	3200357 834 3200360 834 3200373 834 3200386 834	BC 35,6 BS U11 KMGY BC 35,6 BS U22 KMGY BC 35,6 DKL R KMGY BC 35,6 DKL S TRANS	2896209 698 2896212 698 2896157 698 2896115 698	CCA 2,5/ 6-G-5,08 RNP26THRR56 CCA 2,5/ 7-G-5,08 P26THR CCA 2,5/ 7-G-5,08 P26THRR56 CCA 2,5/ 7-G-5,08 RNP26THR	1955316 303 1954977 298 1955086 302 1955219 299	CCDN 2,5/15-G1F-5,08 P26 THR CCDN 2,5/16-G1 P26 THR CCDN 2,5/16-G1-5,08 P26 THR CCDN 2,5/16-G1F P26 THR	1753433 307 1734410 306 1753271 306 1734588 307
A 35	5 -18	3200399 834	BC 35,6 OT U11 KMGY	2896034 698	CCA 2,5/7-G-5,08 RNP26THRR56	1955329 303	CCDN 2,5/16-G1F-5,08 P26 THR	1753446 307
	5 -20	3200409 834	BC 35,6 OT U22 KMGY	2896047 698	CCA 2,5/8-G-5,08 P26THR	1954980 298	CCV 2,5/2-GF-5,08 P26THR	1955633 301
	0,25-6 YE	3203024 835	BC 35,6 UT HBUS BK	2896254 698	CCA 2,5/8-G-5,08 P26THRR56	1955099 302	CCV 2,5/2-GF-5,08 P26THRR32	1955743 305
	0,25-8 YE	3203037 835	BC 53,6 BS U11 KMGY	2896225 699	CCA 2,5/8-G-5,08 RNP26THR	1955222 299	CCV 2,5/2-GF-5,08-LR P26THR	1792737 301
AI (0,5 - 6 WH	3200687 835	BC 53,6 BS U22 KMGY	2896238 699	CCA 2,5/8-G-5,08 RNP26THRR88	1955332 303	CCV 2,5/3-GF-5,08 P26THR	1955646 301
	0,5 - 8 WH	3200014 835	BC 53,6 DKL R KMGY	2896432 699	CCA 2,5/9-G-5,08 P26THR	1954993 298	CCV 2,5/3-GF-5,08 P26THRR56	1955756 305
	0,5 - 8 WH -1000	3200881 835	BC 53,6 DKL S TRANS	2896445 699	CCA 2,5/9-G-5,08 P26THRR88	1955109 302	CCV 2,5/3-GF-5,08-LR P26THR	1792740 301
	0,5 -10 WH	3201275 835	BC 53,6 OT U11 KMGY	2896416 699	CCA 2,5/9-G-5,08 RNP26THR	1955235 299	CCV 2,5/4-GF-5,08 P26THR	1955659 301
AI (0,5 -12 WH	3200506 835	BC 53,6 OT U22 KMGY	2896429 699	CCA 2,5/9-G-5,08 RNP26THRR88	1955345 303	CCV 2,5/ 4-GF-5,08 P26THRR56	1955769 305
	0,75- 6 GY	3200690 835	BC 53,6 UT HBUS BK	2896403 699	CCA 2,5/10-G-5,08 P26THR	1955002 298	CCV 2,5/ 4-GF-5,08-LR P26THR	1792753 301
	0,75- 8 GY	3200519 835	BC 71,6 DKL R KMGY	2896160 699	CCA 2,5/10-G-5,08 P26THRR88	1955112 302	CCV 2,5/ 5-GF-5,08 P26THR	1955662 301
	0,75- 8 GY -1000	3200894 835	BC 71,6 DKL S TRANS	2896128 699	CCA 2,5/10-G-5,08 RNP26THR	1955248 299	CCV 2,5/ 5-GF-5,08 P26THRR56	1955772 305
Al (7),75-10 GY	3201288 835	BC 71,6 OT U11 KMGY	2896050 699	CCA 2,5/10-G-5,08 RNP26THRR88	1955358 303	CCV 2,5/5-GF-5,08-LR P26THR	1792766 301
	7),75-12 GY	3200849 835	BC 71,6 OT U22 KMGY	2896063 699	CCA 2,5/11-G-5,08 P26THR	1955015 298	CCV 2,5/6-GF-5,08 P26THR	1955675 301
	I - 6 RD	3200742 835	BC 71,6 UT HBUS BK	2896267 699	CCA 2,5/11-G-5,08 P26THRR88	1955125 302	CCV 2,5/6-GF-5,08 P26THRR56	1955785 305
	I - 8 RD	3200030 835	BL2-2,54/16-ST	2896335 698	CCA 2,5/11-G-5,08 RNP26THR	1955251 299	CCV 2,5/6-GF-5,08-LR P26THR	1792779 301
Al 1	I - 8 RD -1000	3200904 835	BMKLT 14X12 WH	0813789 685	CCA 2,5/11-G-5,08 RNP26THRR88	1955361 303	CCV 2,5/7-GF-5,08 P26THR	1955688 301
	I -10 RD	3200182 835	BMKLT 19X12 WH	0813792 686	CCA 2,5/12-G-5,08 P26THR	1955028 298	CCV 2,5/7-GF-5,08 P26THRR88	1955798 305
	I -12 RD	3200674 835	BMKLT 31,5X12 WH	0813802 687	CCA 2,5/12-G-5,08 P26THRR88	1955138 302	CCV 2,5/7-GF-5,08-LR P26THR	1792782 301
	I,5 - 6 BK	3200755 835	BMKLT 41,5X12 WH	0813815 688	CCA 2,5/12-G-5,08 RNP26THR	1955264 299	CCV 2,5/8-GF-5,08 P26THR	1955691 301
Al 1	1,5 - 8 BK 1,5 - 8 BK -1000 1,5 -10 BK 1,5 -12 BK	3200043 835 3200917 835 3200195 835 3201482 835	С		CCA 2,5/12-G-5,08 RNP26THRR88 CCDN 2,5/2-G1 P26 THR CCDN 2,5/2-G1-5,08 P26 THR CCDN 2,5/2-G1F P26 THR	1955374 303 1734280 306 1753132 306 1734449 307	CCV 2,5/8-GF-5,08 P26THRR88 CCV 2,5/8-GF-5,08-LR P26THR CCV 2,5/9-GF-5,08 P26THR CCV 2,5/9-GF-5,08 P26THRR88	1955808 305 1792795 301 1955701 301 1955811 305
Al 2	1,5 -18 BK	3200056 835	CC 2,5/ 2-GF-5,08 P26THR	1954692 299	CCDN 2,5/2-G1F-5,08 P26 THR	1753307 307	CCV 2,5/9-GF-5,08-LR P26THR	1792805 301
	2,5 - 8 BU	3200522 835	CC 2,5/ 2-GF-5,08 P26THRR32	1954809 303	CCDN 2,5/3-G1 P26 THR	1734287 306	CCV 2,5/10-GF-5,08 P26THR	1955714 301
	2,5 - 8 BU -1000	3200920 835	CC 2,5/ 2-GF-5,08-LR P26THR	1792627 299	CCDN 2,5/3-G1-5,08 P26 THR	1753145 306	CCV 2,5/10-GF-5,08 P26THRR88	1955824 305
	2,5 -10 BU	3202533 835	CC 2,5/ 3-GF-5,08 P26THR	1954702 299	CCDN 2,5/3-G1F P26 THR	1734452 307	CCV 2,5/10-GF-5,08-LR P26THR	1792818 301
Al 2	2,5 -12 BU	3200962 835	CC 2,5/ 3-GF-5,08 P26THRR56	1954812 303	CCDN 2,5/3-G1F-5,08 P26 THR	1753310 307	CCV 2,5/11-GF-5,08 P26THR	1955727 301
	2,5 -18 BU	3200580 835	CC 2,5/ 3-GF-5,08-LR P26THR	1792630 299	CCDN 2,5/4-G1 P26 THR	1734290 306	CCV 2,5/11-GF-5,08 P26THRR88	1955837 305
	4 -10 GY	3200535 835	CC 2,5/ 4-GF-5,08 P26THR	1954715 299	CCDN 2,5/4-G1-5,08 P26 THR	1753158 306	CCV 2,5/11-GF-5,08-LR P26THR	1792821 301
	4 -12 GY	3200959 835	CC 2,5/ 4-GF-5,08 P26THRR56	1954825 303	CCDN 2,5/4-G1F P26 THR	1734465 307	CCV 2,5/12-GF-5,08 P26THR	1955730 301
AI 6	4 -18 GY	3200593 835	CC 2,5/ 4-GF-5,08-LR P26THR	1792643 299	CCDN 2,5/4-G1F-5,08 P26 THR	1753323 307	CCV 2,5/12-GF-5,08 P26THRR88	1955840 305
	5 -12 YE	3200548 835	CC 2,5/ 5-GF-5,08 P26THR	1954728 299	CCDN 2,5/5-G1 P26 THR	1734300 306	CCV 2,5/12-GF-5,08-LR P26THR	1792834 301
	6 -18 YE	3200603 835	CC 2,5/ 5-GF-5,08 P26THRR56	1954838 303	CCDN 2,5/5-G1-5,08 P26 THR	1753161 306	CCVA 2,5/2-G-5,08 P26THR	1955853 300
	0 -12 RD	3200551 835	CC 2,5/ 5-GF-5,08-LR P26THR	1792656 299	CCDN 2,5/5-G1F P26 THR	1734478 307	CCVA 2,5/2-G-5,08 P26THRR32	1955963 304
Al 1 Al 1	0 -18 RD 6 -12 BU 6 -18 BU 5 -16 YE	3200616 835 3200564 835 3200629 835 3200577 835	CC 2,5/ 6-GF-5,08 P26THR CC 2,5/ 6-GF-5,08 P26THRR56 CC 2,5/ 6-GF-5,08-LR P26THR CC 2,5/ 7-GF-5,08 P26THR	1954731 299 1954841 303 1792669 299 1954744 299	CCDN 2,5/5-G1F-5,08 P26 THR CCDN 2,5/6-G1 P26 THR CCDN 2,5/6-G1-5,08 P26 THR CCDN 2,5/6-G1F P26 THR	1753336 307 1734313 306 1753174 306 1734481 307	CCVA 2,5/2-G-5,08 RNP26THR CCVA 2,5/2-G-5,08RNP26THRR32 CCVA 2,5/3-G-5,08 P26THR CCVA 2,5/3-G-5,08 P26THRR32	1956085 301 1956195 305 1955866 300 1955976 304
AI 2	5 -18 YE	3201505 835	CC 2,5/7-GF-5,08 P26THRR88	1954854 303	CCDN 2,5/6-G1F-5,08 P26 THR	1753349 307	CCVA 2,5/ 3-G-5,08 RNP26THR	1956098 301
	5 -22 YE	3200700 835	CC 2,5/7-GF-5,08-LR P26THR	1792672 299	CCDN 2,5/7-G1 P26 THR	1734326 306	CCVA 2,5/ 3-G-5,08RNP26THRR32	1956205 305
	5 -16 RD	3200441 835	CC 2,5/8-GF-5,08 P26THR	1954757 299	CCDN 2,5/7-G1-5,08 P26 THR	1753187 306	CCVA 2,5/ 4-G-5,08 P26THR	1955879 300
	5 -18 RD	3201495 835	CC 2,5/8-GF-5,08 P26THRR88	1954867 303	CCDN 2,5/7-G1F P26 THR	1734494 307	CCVA 2,5/ 4-G-5,08 P26THRR56	1955989 304

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CCVA 2,5/4-G-5,08 RNP26THR	1956108 301	CM125-LG/H 12,5/BO/DB BK	2943055 737	DFK-IPC 16/8-GFU-10,16	1702879 579	DFK-MSTB 2,5/8-G	0707060 352
CCVA 2,5/4-G-5,08RNP26THRR56	1956218 305	CM125-LG/H 35/BO BK	2942904 737	DFK-IPC 16/8-GFU-SH-10,16	1702950 581	DFK-MSTB 2,5/8-G-5,08	0707057 352
CCVA 2,5/5-G-5,08 P26THR	1955882 300	CM125-LG/H 35/BO/DB BK	2941691 737	DFK-IPC 16/8-GU-10,16	1702552 579	DFK-MSTB 2,5/8-GF	0710086 353
CCVA 2,5/5-G-5,08 P26THRR56	1955992 304	CM125-LG/H 35/BO/DB/GH BK	2941840 737	DFK-IPC 16/8-ST-10,16	1703755 584	DFK-MSTB 2,5/8-GF-5,08	0710235 353
CCVA 2,5/5-G-5,08 RNP26THR	1956111 301	CM175-LG/H 35/BO/DB/GH BK	2941507 737	DFK-IPC 16/ 8-STF-10,16	1703836 585	DFK-MSTB 2,5/ 9-G	0707167 352
CCVA 2,5/5-G-5,08RNP26THRR56	1956221 305	CM200-LG/H 55/BO/DB/GH BK	2941853 737	DFK-IPC 16/ 8-STF-SH-10,16	1703991 585	DFK-MSTB 2,5/ 9-G-5,08	0707303 352
CCVA 2,5/6-G-5,08 P26THR	1955895 300	CMS-P1-M/ZB	5144699 804	DFK-IPC 16/ 9-G-10,16	1702484 578	DFK-MSTB 2,5/ 9-GF	0710099 353
CCVA 2,5/6-G-5,08 P26THRR56	1956001 304	CMS-P1-M/ZBF	5144709 806	DFK-IPC 16/ 9-GF-10,16	1702808 579	DFK-MSTB 2,5/ 9-GF-5,08	0710248 353
CCVA 2,5/6-G-5,08 RNP26THR	1956124 301	CP-MSTB	1734634 674	DFK-IPC 16/9-GF-SH-10,16	1703043 580	DFK-MSTB 2,5/10-G	0707170 352
CCVA 2,5/6-G-5,08RNP26THRR56	1956234 305	CR MSTBO-G1	2199618 674	DFK-IPC 16/9-GFU-10,16	1702882 579	DFK-MSTB 2,5/10-G-5,08	0707316 352
CCVA 2,5/7-G-5,08 P26THR	1955905 300	CR-MSTB	1734401 718	DFK-IPC 16/9-GFU-SH-10,16	1702963 581	DFK-MSTB 2,5/10-GF	0710109 353
CCVA 2,5/7-G-5,08 P26THRR56	1956014 304	CS-SKBI	2204082 776	DFK-IPC 16/9-GU-10,16	1702565 579	DFK-MSTB 2,5/10-GF-5,08	0710251 353
CCVA 2,5/7-G-5,08 RNP26THR CCVA 2,5/7-G-5,08RNP26THRR56 CCVA 2,5/8-G-5,08 P26THR CCVA 2,5/8-G-5,08 P26THRR56	1956137 301 1956247 305 1955918 300 1956027 304	D		DFK-IPC 16/9-ST-10,16 DFK-IPC 16/9-STF-10,16 DFK-IPC 16/9-STF-SH-10,16 DFK-IPC 35 HC/2-GF-15,00	1703768 584 1703849 585 1704000 585 1784965 593	DFK-MSTB 2,5/11-G DFK-MSTB 2,5/11-G-5,08 DFK-MSTB 2,5/11-GF DFK-MSTB 2,5/11-GF-5,08	0707183 352 0707329 352 0710112 353 0710264 353
CCVA 2,5/8-G-5,08 RNP26THR	1956140 301	DB 50-90 BK	2820916 722	DFK-IPC 35 HC/ 3-GF-15,00	1784978 593	DFK-MSTB 2,5/12-G	0707196 352
CCVA 2,5/8-G-5,08RNP26THRR88	1956250 305	DB 50-90 GY	2820929 722	DFK-IPC 35 HC/ 4-GF-15,00	1784981 593	DFK-MSTB 2,5/12-G-5,08	0707332 352
CCVA 2,5/9-G-5,08 P26THR	1955921 300	DFK 4	0708357 639	DFK-IPC 35 HC/ 5-GF-15,00	1784994 593	DFK-MSTB 2,5/12-GF	0710125 353
CCVA 2,5/9-G-5,08 P26THRR88	1956030 304	DFK 4-PE	0708315 639	DFK-IPC 35 HC/ 6-GF-15,00	1785003 593	DFK-MSTB 2,5/12-GF-5,08	0710277 353
CCVA 2,5/9-G-5,08 RNP26THR	1956153 301	DFK 4-SI(5X20) BK	0709301 639	DFK-IPCV 16/ 2-G-10,16	1703056 581	DFK-MSTB 2,5/13-G	0707206 352
CCVA 2,5/9-G-5,08RNP26THRR88	1956263 305	DFK 4-SI(6,3X32) BK	0708344 639	DFK-IPCV 16/ 2-GF-10,16	1703218 581	DFK-MSTB 2,5/13-G-5,08	0707345 352
CCVA 2,5/10-G-5,08 P26THR	1955934 300	DFK 5-9,5	0706605 641	DFK-IPCV 16/ 3-G-10,16	1703069 581	DFK-MSTB 2,5/13-GF	0710138 353
CCVA 2,5/10-G-5,08 P26THRR88	1956043 304	DFK-IPC 16/2-G-10,16	1702413 578	DFK-IPCV 16/ 3-GF-10,16	1703221 581	DFK-MSTB 2,5/13-GF-5,08	0710280 353
CCVA 2,5/10-G-5,08 RNP26THR	1956166 301	DFK-IPC 16/2-GF-10,16	1702730 579	DFK-IPCV 16/ 4-G-10,16	1703072 581	DFK-MSTB 2,5/14-G	0707219 352
CCVA 2,5/10-G-5,08RNP26THRR88	3 1956276 305	DFK-IPC 16/2-GF-SH-10,16	1702976 580	DFK-IPCV 16/ 4-GF-10,16	1703234 581	DFK-MSTB 2,5/14-G-5,08	0707358 352
CCVA 2,5/11-G-5,08 P26THR	1955947 300	DFK-IPC 16/2-GFU-10,16	1702811 579	DFK-IPCV 16/ 5-G-10,16	1703085 581	DFK-MSTB 2,5/14-GF	0710141 353
CCVA 2,5/11-G-5,08 P26THRR88	1956056 304	DFK-IPC 16/2-GFU-SH-10,16	1702895 581	DFK-IPCV 16/ 5-GF-10,16	1703247 581	DFK-MSTB 2,5/14-GF-5,08	0710293 353
CCVA 2,5/11-G-5,08 RNP26THR	1956179 301	DFK-IPC 16/2-GU-10,16	1702497 579	DFK-IPCV 16/6-G-10,16	1703098 581	DFK-MSTB 2,5/15-G	0707222 352
CCVA 2,5/11-G-5,08RNP26THRR88	3 1956289 305	DFK-IPC 16/2-ST-10,16	1703690 584	DFK-IPCV 16/6-GF-10,16	1703250 581	DFK-MSTB 2,5/15-G-5,08	0707361 352
CCVA 2,5/12-G-5,08 P26THR	1955950 300	DFK-IPC 16/2-STF-10,16	1703771 585	DFK-IPCV 16/7-G-10,16	1703108 581	DFK-MSTB 2,5/15-GF	0710154 353
CCVA 2,5/12-G-5,08 P26THRR88	1956069 304	DFK-IPC 16/2-STF-SH-10,16	1703933 585	DFK-IPCV 16/7-GF-10,16	1703263 581	DFK-MSTB 2,5/15-GF-5,08	0710303 353
CCVA 2,5/12-G-5,08 RNP26THR	1956182 301	DFK-IPC 16/3-G-10,16	1702426 578	DFK-IPCV 16/8-G-10,16	1703111 581	DFK-MSTB 2,5/16-G	0707235 352
CCVA 2,5/12-G-5,08RNP26THRR88	3 1956292 305	DFK-IPC 16/3-GF-10,16	1702743 579	DFK-IPCV 16/8-GF-10,16	1703276 581	DFK-MSTB 2,5/16-G-5,08	0707374 352
CIOC 3-1-FV-A	1701551 67	DFK-IPC 16/3-GF-SH-10,16	1702989 580	DFK-IPCV 16/9-G-10,16	1703124 581	DFK-MSTB 2,5/16-GF	0710167 353
CIOC 3-20-1,2-F	1701400 65	DFK-IPC 16/3-GFU-10,16	1702824 579	DFK-IPCV 16/9-GF-10,16	1703289 581	DFK-MSTB 2,5/16-GF-5,08	0710316 353
CIOC 3-20-1,2-M	1701393 65	DFK-IPC 16/3-GFU-SH-10,16	1702905 581	DFK-IPCV 35 HC/ 2-GF-15,00	1793600 593	DFK-MSTBA 2,5/ 2-G-5,08	1898839 354
CIOC 3-20-1,6-F	1701402 65	DFK-IPC 16/3-GU-10,16	1702507 579	DFK-IPCV 35 HC/ 3-GF-15,00	1793613 593	DFK-MSTBA 2,5/ 2-GF-5,08	1898981 355
CIOC 3-20-1,6-FL	1701404 65	DFK-IPC 16/3-ST-10,16	1703700 584	DFK-IPCV 35 HC/ 4-GF-15,00	1793626 593	DFK-MSTBA 2,5/ 3-G-5,08	1898842 354
CIOC 3-20-1,6-M	1701394 65	DFK-IPC 16/3-STF-10,16	1703784 585	DFK-IPCV 35 HC/ 5-GF-15,00	1793639 593	DFK-MSTBA 2,5/ 3-GF-5,08	1898994 355
CIOC 3-20-2,0-F	1701403 65	DFK-IPC 16/3-STF-SH-10,16	1703946 585	DFK-IPCV 35 HC/ 6-GF-15,00	1793642 593	DFK-MSTBA 2,5/ 4-G-5,08	1898855 354
CIOC 3-20-2,0-M	1701396 65	DFK-IPC 16/4-G-10,16	1702439 578	DFK-MC 1,5/ 2-GF-3,81	1829345 240	DFK-MSTBA 2,5/ 4-GF-5,08	1899003 355
CIOC 3-24-1,0-F	1701397 65	DFK-IPC 16/4-GF-10,16	1702756 579	DFK-MC 1,5/ 3-GF-3,81	1829358 240	DFK-MSTBA 2,5/ 5-G-5,08	1898868 354
CIOC 3-24-1,0-M	1701390 65	DFK-IPC 16/4-GF-SH-10,16	1702992 580	DFK-MC 1,5/ 4-GF-3,81	1829361 240	DFK-MSTBA 2,5/ 5-GF-5,08	1899016 355
CIOC 3-24-1,2-F	1701398 65	DFK-IPC 16/4-GFU-10,16	1702837 579	DFK-MC 1,5/5-GF-3,81	1829374 240	DFK-MSTBA 2,5/6-G-5,08	1898871 354
CIOC 3-24-1,2-M	1701391 65	DFK-IPC 16/4-GFU-SH-10,16	1702918 581	DFK-MC 1,5/6-GF-3,81	1829387 240	DFK-MSTBA 2,5/6-GF-5,08	1899029 355
CIOC 3-24-1,6-F	1701399 65	DFK-IPC 16/4-GU-10,16	1702510 579	DFK-MC 1,5/7-GF-3,81	1829390 240	DFK-MSTBA 2,5/7-G-5,08	1898884 354
CIOC 3-24-1,6-M	1701392 65	DFK-IPC 16/4-ST-10,16	1703713 584	DFK-MC 1,5/8-GF-3,81	1827596 240	DFK-MSTBA 2,5/7-GF-5,08	1899032 355
CIOC 3-4-FV	1701552 67	DFK-IPC 16/4-STF-10,16	1703797 585	DFK-MC 1,5/9-GF-3,81	1829400 240	DFK-MSTBA 2,5/ 8-G-5,08	1898897 354
CIOC 4-1-FH-SMD-B R32	1701322 67	DFK-IPC 16/4-STF-SH-10,16	1703959 585	DFK-MC 1,5/10-GF-3,81	1829413 240	DFK-MSTBA 2,5/ 8-GF-5,08	1899045 355
CIOC 4-1-FV-A	1701388 67	DFK-IPC 16/5-G-10,16	1702442 578	DFK-MC 1,5/11-GF-3,81	1829426 240	DFK-MSTBA 2,5/ 9-G-5,08	1898907 354
CIOC 4-1-LIH	1701362 69	DFK-IPC 16/5-GF-10,16	1702769 579	DFK-MC 1,5/12-GF-3,81	1829439 240	DFK-MSTBA 2,5/ 9-GF-5,08	1899058 355
CIOC 4-1-LIV	1701375 69	DFK-IPC 16/5-GF-SH-10,16	1703001 580	DFK-MC 1,5/13-GF-3,81	1829442 240	DFK-MSTBA 2,5/10-G-5,08	1898910 354
CIOC 4-18-LI	1701359 69	DFK-IPC 16/5-GFU-10,16	1702840 579	DFK-MC 1,5/14-GF-3,81	1829455 240	DFK-MSTBA 2,5/10-GF-5,08	1899061 355
CIOC 4-20-1,2-F	1701171 65	DFK-IPC 16/5-GFU-SH-10,16	1702921 581	DFK-MC 1,5/15-GF-3,81	1829468 240	DFK-MSTBA 2,5/11-G-5,08	1898923 354
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CIOC 4-20-1,2-M	1701058 65	DFK-IPC 16/5-ST-10,16	1703726 584	DFK-MSTB 2,5/ 2-G	0707109 352	DFK-MSTBA 2,5/12-G-5,08	1898936 354
CIOC 4-20-1,6-F	1701197 65	DFK-IPC 16/5-STF-10,16	1703807 585	DFK-MSTB 2,5/ 2-G-5,08	0707248 352	DFK-MSTBA 2,5/12-GF-5,08	1899087 355
CIOC 4-20-1,6-FL	1701317 65	DFK-IPC 16/5-STF-SH-10,16	1703962 585	DFK-MSTB 2,5/ 2-GF	0710028 353	DFK-MSTBA 2,5/13-G-5,08	1898949 354
CIOC 4-20-1,6-M	1701074 65	DFK-IPC 16/6-G-10,16	1702455 578	DFK-MSTB 2,5/ 2-GF-5,08	0710170 353	DFK-MSTBA 2,5/13-GF-5,08	1899090 355
CIOC 4-20-2,0-F	1701210 65	DFK-IPC 16/6-GF-10,16	1702772 579	DFK-MSTB 2,5/ 3-G	0707112 352	DFK-MSTBA 2,5/14-G-5,08	1898952 354
CIOC 4-20-2,0-FL	1701333 65	DFK-IPC 16/6-GF-SH-10,16	1703014 580	DFK-MSTB 2,5/ 3-G-5,08	0707251 352	DFK-MSTBA 2,5/14-GF-5,08	1899100 355
CIOC 4-20-2,0-M	1701090 65	DFK-IPC 16/6-GFU-10,16	1702853 579	DFK-MSTB 2,5/ 3-GF	0710031 353	DFK-MSTBA 2,5/15-G-5,08	1898965 354
CIOC 4-24-1,0-F	1701113 65	DFK-IPC 16/6-GFU-SH-10,16	1702934 581	DFK-MSTB 2,5/ 3-GF-5,08	0710183 353	DFK-MSTBA 2,5/15-GF-5,08	1899113 355
CIOC 4-24-1,0-FL	1701236 65	DFK-IPC 16/6-GU-10,16	1702536 579	DFK-MSTB 2,5/ 4-G	0707125 352	DFK-MSTBA 2,5/16-G-5,08	1898978 354
CIOC 4-24-1,0-M	1700994 65	DFK-IPC 16/6-ST-10,16	1703739 584	DFK-MSTB 2,5/ 4-G-5,08	0707264 352	DFK-MSTBA 2,5/16-GF-5,08	1899126 355
CIOC 4-24-1,2-F	1701139 65	DFK-IPC 16/6-STF-10,16	1703810 585	DFK-MSTB 2,5/ 4-GF	0710044 353	DFK-MSTBVA 2,5/2-G-5,08	1899139 355
CIOC 4-24-1,2-FL	1701252 65	DFK-IPC 16/6-STF-SH-10,16	1703975 585	DFK-MSTB 2,5/ 4-GF-5,08	0710196 353	DFK-MSTBVA 2,5/2-GF-5,08	1899281 355
CIOC 4-24-1,2-M	1701016 65	DFK-IPC 16/7-G-10,16	1702468 578	DFK-MSTB 2,5/ 5-G	0707138 352	DFK-MSTBVA 2,5/3-G-5,08	1899142 355
CIOC 4-24-1,6-F	1701155 65	DFK-IPC 16/7-GF-10,16	1702785 579	DFK-MSTB 2,5/ 5-G-5,08	0707277 352	DFK-MSTBVA 2,5/3-GF-5,08	1899294 355
CIOC 4-24-1,6-FL	1701278 65	DFK-IPC 16/7-GF-SH-10,16	1703027 580	DFK-MSTB 2,5/ 5-GF	0710057 353	DFK-MSTBVA 2,5/4-G-5,08	1899155 355
CIOC 4-24-1,6-M	1701032 65	DFK-IPC 16/7-GFU-10,16	1702866 579	DFK-MSTB 2,5/ 5-GF-5,08	0710206 353	DFK-MSTBVA 2,5/4-GF-5,08	1899304 355
CIOC 4-4-FV	1701401 67	DFK-IPC 16/ 7-GFU-SH-10,16	1702947 581	DFK-MSTB 2,5/ 6-G	0707141 352	DFK-MSTBVA 2,5/5-G-5,08	1899168 355
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CM 50-LG/H 30/BO BK	2942878 736	DFK-IPC 16/ 7-ST-10,16	1703742 584	DFK-MSTB 2,5/ 6-GF	0710060 353	DFK-MSTBVA 2,5/6-G-5,08	1899171 355
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DMCV 1,5/4-G1-3,5 P20THR	1787221 187	EG 45-AG/PC GN	2764881 721	EMC 1,5/14-GF-3,81	1897063 223	EMG 12-LG	2907910 709
DMCV 1,5/4-G1-3,5 P20THR R44	1818591 189	EG 45-G/ABS GN	2764140 719	EMC 1,5/15-G-3,5	1897225 222	EMG 12-LG/SET	2942962 709
DMCV 1,5/4-G1F-3,5-LR P20THR	1787412 187	EG 45-GMF/PC GN	2764849 721	EMC 1,5/15-G-3,81	1897937 222	EMG 15-B3	2947815 709
DMCV 1,5/4-G1F-3,5-LRP20THRR4	14 1818724 189	EG 45-GMFP/PC GN	2764852 721	EMC 1,5/15-GF-3,5	1897377 223	EMG 15-H 7,5MM KLAR	2947828 709
DMCV 1,5/5-G1-3,5 P20THR	1787234 187	EG 45-GP/ABS GN	2764153 719	EMC 1,5/15-GF-3,81	1897076 223	EMG 15-H 15MM KLAR	2947831 709
DMCV 1,5/5-G1-3,5 P20THR R44	1818601 189	EG 67,5-A/ABS GN	2764357 719	EMC 1,5/16-G-3,5	1897238 222	EMG 15-H 52MM GN	2947844 709
DMCV 1,5/5-G1F-3,5-LR P20THR	1787425 187	EG 67,5-A/PC GN	2764933 721	EMC 1,5/16-G-3,81	1897940 222	EMG 15-LG	2908508 709
DMCV 1,5/5-G1F-3,5-LRP20THRR5	66 1818737 189	EG 67,5-AE/ABS GN	2907347 719	EMC 1,5/16-GF-3,5	1897380 223	EMG 15-LG/SET	2942975 709
DMCV 1,5/6-G1-3,5 P20THR	1787247 187	EG 67,5-AE/PC GN	2764920 721	EMC 1,5/16-GF-3,81	1897089 223	EMG 17-B3	2946081 709
DMCV 1,5/6-G1-3,5 P20THR R44	1818614 189	EG 67,5-AG/ABS GN	2907376 719	EMCV 1,5-SS 1	1877274 826	EMG 17-H 7,5MM KLAR	2946094 709
DMCV 1,5/6-G1F-3,5-LR P20THR	1787438 187	EG 67,5-AG/PC GN	2764946 721	EMCV 1,5/2-G-3,5	1911017 223	EMG 17-H 15MM KLAR	2946104 709
DMCV 1,5/6-G1F-3,5-LRP20THRR5	56 1818740 189	EG 67,5-G/ABS GN	2764292 719	EMCV 1,5/2-G-3,81	1860647 223	EMG 17-H 35MM KLAR	2942221 709
DMCV 1,5/7-G1-3,5 P20THR	1787250 187	EG 67,5-GMF/PC GN	2764894 721	EMCV 1,5/2-GF-3,5	1911169 223	EMG 17-H 52MM GN	2946117 709
DMCV 1,5/7-G1-3,5 P20THR R56	1818627 189	EG 67,5-GMFP/PC GN	2764917 721	EMCV 1,5/2-GF-3,81	1879285 223	EMG 17-LG	2946078 709
DMCV 1,5/7-G1F-3,5-LR P20THR	1787441 187	EG 67,5-GP/ABS GN	2764302 719	EMCV 1,5/3-G-3,5	1911020 223	EMG 17-LG-7,5	2944106 709
DMCV 1,5/7-G1F-3,5-LRP20THRR5	56 1818753 189	EG 90-A/ABS GN	2764399 719	EMCV 1,5/3-G-3,81	1860650 223	EMG 17-LG/O	2942409 709
DMCV 1,5/8-G1-3,5 P20THR	1787263 187	EG 90-A/PC GN	2764988 721	EMCV 1,5/3-GF-3,5	1911172 223	EMG 17-LG/SET	2942988 709
DMCV 1,5/8-G1-3,5 P20THR R56	1818630 189	EG 90-AE/ABS GN	2907350 719	EMCV 1,5/3-GF-3,81	1879298 223	EMG 22-B4	2946146 710
DMCV 1,5/8-G1F-3,5-LR P20THR	1787454 187	EG 90-AE/PC GN	2764975 721	EMCV 1,5/4-G-3,5	1911033 223	EMG 22-H 7,5MM KLAR	2946159 710
DMCV 1,5/8-G1F-3,5-LRP20THRR5	56 1818766 189	EG 90-AG/ABS GN	2907389 719	EMCV 1,5/4-G-3,81	1860663 223	EMG 22-H 15MM KLAR	2946162 710
DMCV 1,5/9-G1-3,5 P20THR	1787276 187	EG 90-AG/PC GN	2764991 721	EMCV 1,5/4-GF-3,5	1911185 223	EMG 22-H 35MM KLAR	2942771 710
DMCV 1,5/9-G1-3,5 P20THR R56	1818643 189	EG 90-G/ABS GN	2764328 719	EMCV 1,5/4-GF-3,81	1879308 223	EMG 22-H 52MM GN	2946175 710
DMCV 1,5/9-G1F-3,5-LR P20THR	1787467 187	EG 90-GMF/PC GN	2764959 721	EMCV 1,5/5-G-3,5	1911046 223	EMG 22-LG	2946133 710
DMCV 1,5/9-G1F-3,5-LRP20THRR7	72 1818779 189	EG 90-GMFP/PC GN	2764962 721	EMCV 1,5/5-G-3,81	1860676 223	EMG 22-LG/SET	2942991 710
DMCV 1,5/10-G1-3,5 P20THR	1787289 187	EG 90-GP/ABS GN	2764315 719	EMCV 1,5/5-GF-3,5	1911198 223	EMG 25-B4	2948335 711
DMCV 1,5/10-G1-3,5 P20THR R56	1818656 189	EM-MP 45N	2943712 765	EMCV 1,5/5-GF-3,81	1879311 223	EMG 25-H 7,5MM KLAR	2947132 711
DMCV 1,5/10-G1F-3,5-LR P20THR	1787470 187	EM-MP 70	2942742 765	EMCV 1,5/6-G-3,5	1911059 223	EMG 25-H 15MM KLAR	2948322 711
DMCV 1,5/10-G1F-3,5-LRP20THRR	721818782 189	EM-MPG 45	2944177 765	EMCV 1,5/6-G-3,81	1860689 223	EMG 25-H 52MM GN	2947145 711
DMCV 1,5/11-G1-3,5 P20THR	1787292 187	EMC 1,5-SH	1877258 826	EMCV 1,5/6-GF-3,5	1911208 223	EMG 25-LG	2948319 711
DMCV 1,5/11-G1-3,5 P20THR R72	1818669 189	EMC 1,5/ 2-G-3,5	1897092 222	EMCV 1,5/6-GF-3,81	1879324 223	EMG 25-LG/SET	2943000 711
DMCV 1,5/11-G1F-3,5-LR P20THR	1787483 187	EMC 1,5/ 2-G-3,81	1897801 222	EMCV 1,5/7-G-3,5	1911062 223	EMG 25-ZE	2941808 711
DMCV 1,5/11-G1F-3,5-LRP20THRR:	721818795 189	EMC 1,5/ 2-GF-3,5	1897241 223	EMCV 1,5/7-G-3,81	1860692 223	EMG 30-B5	2947873 711
DMCV 1,5/12-G1-3,5 P20THR	1787302 187	EMC 1,5/ 2-GF-3,81	1896941 223	EMCV 1,5/7-GF-3,5	1911211 223	EMG 30-H 7,5MM KLAR	2947886 711
DMCV 1,5/12-G1-3,5 P20THR R72	1818672 189	EMC 1,5/3-G-3,5	1897102 222	EMCV 1,5/7-GF-3,81	1879337 223	EMG 30-H 15MM KLAR	2947899 711
DMCV 1,5/12-G1F-3,5-LR P20THR	1787496 187	EMC 1,5/3-G-3,81	1897814 222	EMCV 1,5/8-G-3,5	1911075 223	EMG 30-H 52MM GN	2947909 711
DMCV 1,5/12-G1F-3,5-LRP20THRR	721818805 189	EMC 1,5/3-GF-3,5	1897254 223	EMCV 1,5/8-G-3,81	1860702 223	EMG 30-LG	2947860 711
DMCV 1,5/13-G1-3,5 P20THR	1787315 187	EMC 1,5/3-GF-3,81	1896954 223	EMCV 1,5/8-GF-3,5	1911224 223	EMG 30-LG/SET	2940016 711
DMCV 1,5/13-G1-3,5 P20THR R72	1818685 189	EMC 1,5/ 4-G-3,5	1897115 222	EMCV 1,5/8-GF-3,81	1879340 223	EMG 37-B7	2947064 711
DMCV 1,5/13-G1F-3,5-LR P20THR	1787506 187	EMC 1,5/ 4-G-3,81	1897827 222	EMCV 1,5/9-G-3,5	1911088 223	EMG 37-H 7,5MM KLAR	2947158 711
DMCV 1,5/14-G1-3,5 P20THR	1787328 187	EMC 1,5/ 4-GF-3,5	1897267 223	EMCV 1,5/9-G-3,81	1860715 223	EMG 37-H 15MM KLAR	2947161 711
DMCV 1,5/14-G1-3,5 P20THR R72	1818698 189	EMC 1,5/ 4-GF-3,81	1896967 223	EMCV 1,5/9-GF-3,5	1911237 223	EMG 37-H 35MM KLAR	2942768 711
DMCV 1,5/14-G1F-3,5-LR P20THR	1787519 187	EMC 1,5/ 5-G-3,5	1897128 222	EMCV 1,5/9-GF-3,81	1879353 223	EMG 37-H 52MM GN	2947174 711
DMCV 1,5/15-G1-3,5 P20THR	1787331 187	EMC 1,5/ 5-G-3,81	1897830 222	EMCV 1,5/10-G-3,5	1911091 223	EMG 37-LG	2947051 711
DMCV 1,5/15-G1F-3,5-LR P20THR	1787522 187	EMC 1,5/ 5-GF-3,5	1897270 223	EMCV 1,5/10-G-3,81	1860728 223	EMG 37-LG/SET	2940029 711
DMCV 1,5/16-G1-3,5 P20THR	1787344 187	EMC 1,5/ 5-GF-3,81	1896970 223	EMCV 1,5/10-GF-3,5	1911240 223	EMG 45-B8	2946201 712

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EMG 45-H 7,5MM KLAR	2946214 712	EML (20X8)R	0816786 808	EML-ESD (8X8)RL-T	0830576 813	EMLS (26,5X12)R SR	0800353 816
EMG 45-H 15MM KLAR	2946227 712	EML (20X8)R YE	0816799 809	EML-HT (15X15)R	0800341 810	EMLS (26,5X12)R SR CUS	0830179 817
EMG 45-H 35MM KLAR	2942140 712	EML (21,5X21,5)R SR	0816812 809	EML-HT (15X15)R CUS	0830170 811	EMLS (38,1X19)R SR	0800354 816
EMG 45-H 52MM GN	2946230 712	EML (25,4X12,7)R	0816825 808	EML-HT (15X15)RL-T	0830653 811	EMLS (38,1X19)R SR CUS	0830180 817
EMG 45-LG	2946191 712	EML (25,4X12,7)R YE	0816838 809	EML-HT (15X6)R	0830644 810	EMLS (40X15)R SR	0800345 816
EMG 45-LG/O	2942315 712	EML (26,5X12)R SR	0816854 809	EML-HT (15X6)R CUS	0830663 811	EMLS (40X15)R SR CUS	0830173 817
EMG 45-LG/SET	2940032 712	EML (26,5X17,5)R SR	0816883 809	EML-HT (15X6)RL-T	0830652 811	EMLS (40X8)R SR	0800348 816
EMG 45-ZE	2941811 712	EML (26,5X17,5)R YE	0816896 809	EML-HT (20X7)R	0830645 810	EMLS (40X8)R SR CUS	0830176 817
EMG 50-B9	2947268 713	EML (26,5X18,5)R SR	0816906 809	EML-HT (20X7)R CUS	0830664 811	EMLS (60X30)R SR	0800355 816
EMG 50-H 7,5MM KLAR	2947925 713	EML (26,5X26,5)R SR	0816919 809	EML-HT (20X7)RL-T	0830654 811	EMLS (60X30)R SR CUS	0830181 817
EMG 50-H 15MM KLAR	2947938 713	EML (26,5X7,5)R SR	0816841 809	EML-HT (24X4)R	0830646 810	EMLS (70X150)R SR	0800351 816
EMG 50-H 52MM GN	2947941 713	EML (30X20)R	0816922 808	EML-HT (24X4)R CUS	0830665 811	EMLS (70X150)R SR CUS	0830178 817
EMG 50-LG	2947242 713	EML (30X20)R YE	0816935 809	EML-HT (24X4)RL-T	0830655 811	EMLS (70X32)R SR	0800346 816
EMG 50-LG/O	2940870 713	EML (37XE)RL TR	0815716 808	EML-HT (25,4X12,7)R	0830648 810	EMLS (70X32)R SR CUS	0830174 817
EMG 50-LG/SET	2940045 713	EML (38,1X19)RL	0816171 808	EML-HT (25,4X12,7)R CUS	0830667 811	EMLS (76X51)R SR	0800350 816
EMG 75-B14	2947381 713	EML (38X17)R	0816951 808	EML-HT (25,4X12,7)RL-T	0830657 811	EMLS (76X51)R SR CUS	0830177 817
EMG 75-H 7,5MM KLAR	2947954 713	EML (40X15)R SR	0815729 809	EML-HT (25X8)R	0830647 810	EMLS (85X32)R SR	0800356 816
EMG 75-H 15MM KLAR	2947967 713	EML (40X25)R	0818027 808	EML-HT (25X8)R CUS	0830666 811	EMLS (85X32)R SR CUS	0830182 817
EMG 75-H 52MM GN	2947970 713	EML (40X25)R YE	0816977 809	EML-HT (25X8)RL-T	0830656 811	EMSTB 2,5-SH	1877203 826
EMG 75-LG	2947378 713	EML (40X8)R	0816980 808	EML-HT (32X10)R	0830649 810	EMSTB 2,5/ 2-GF	1900073 311
EMG 75-LG/O	2941879 713	EML (50,8X25,4)RL	0816184 808	EML-HT (32X10)R CUS	0830668 811	EMSTB 2,5/ 2-GF-5,08	1899618 311
EMG 75-LG/SET	2940058 713	EML (51X25)R	0817028 808	EML-HT (32X10)RL-T	0830658 811	EMSTB 2,5/ 3-GF	1900086 311
EMG 90-B17	2946269 713	EML (51X25)R SR	0817002 809	EML-HT (35X6,5)R	0830650 810	EMSTB 2,5/ 3-GF-5,08	1899621 311
EMG 90-H 7,5MM KLAR	2945396 713	EML (51X25)R YE	0817031 809	EML-HT (35X6,5)R CUS	0830669 811	EMSTB 2,5/ 4-GF	1900099 311
EMG 90-H 15MM KLAR	2945406 713	EML (69,8X31,8)RL	0816197 808	EML-HT (35X6,5)RL-T	0830659 811	EMSTB 2,5/ 4-GF-5,08	1899634 311
EMG 90-H 52MM GN	2944300 713	EML (70X32)R	0817060 808	EML-HT (40X15)R	0800339 810	EMSTB 2,5/ 5-GF	1900109 311
EMG 90-LG	2946256 713	EML (70X32)R SR	0817057 809	EML-HT (40X15)R CUS	0830168 811	EMSTB 2,5/ 5-GF-5,08	1899647 311
EMG 90-LG/O	2941581 713	EML (70X32)R YE	0817073 809	EML-HT (40X15)RL-T	0830660 811	EMSTB 2,5/ 6-GF	1900112 311
EMG 90-LG/SET	2907884 713	EML (70X50)R	0817099 808	EML-HT (45X5)R	0800337 810	EMSTB 2,5/ 6-GF-5,08	1899650 311
EMG 90-ZE	2941824 713	EML (70X50)R SR	0817086 809	EML-HT (45X5)R CUS	0830166 811	EMSTB 2,5/ 7-GF	1900125 311
EMG-GKS 12	2947035 709	EML (76,2X6,5)RL YE	0816207 809	EML-HT (45X5)RL-T	0830661 811	EMSTB 2,5/ 7-GF-5,08	1899663 311
EMG-GKS 22	2941594 710	EML (90X5)R	0817109 808	EML-HT (50X10)R	0800338 810	EMSTB 2,5/ 8-GF	1900138 311
EMG-KA	2941510 708	EML (D17,5)R	0815774 808	EML-HT (50X10)R CUS	0830167 811	EMSTB 2,5/ 8-GF-5,08	1899676 311
EMG-SGKS 10	2947585 708	EML (100X40)R	0800286 808	EML-HT (50X10)RL-T	0830662 811	EMSTB 2,5/ 9-GF	1900141 311
EMG100-B19	2947093 714	EML (100X40)R SR	0802697 809	EML-HT (8X8)R	0800340 810	EMSTB 2,5/ 9-GF-5,08	1899689 311
EMG100-H 7,5MM KLAR	2944193 714	EML (15X6) R YE	0819288 809	EML-HT (8X8)R CUS	0830169 811	EMSTB 2,5/10-GF	1900154 311
EMG100-H 15MM KLAR	2943152 714	EML (18X7)RL YE	0802733 809	EML-HT (8X8)RL-T	0830651 811	EMSTB 2,5/10-GF-5,08	1899692 311
EMG100-H 35MM KLAR	2942218 714	EML (25,4X12,7)RL	0816087 808	EML-HT (D12)R	0801376 810	EMSTB 2,5/11-GF	1900167 311
EMG100-H 52MM GN	2944724 714	EML (29X29)R-ME	0828172 674	EML-RM (15X15)R	0830530 814	EMSTB 2,5/11-GF-5,08	1899702 311
EMG100-LG	2947080 714	EML (44X42)R-ME	0828279 674	EML-RM (15X15)R CUS	0830554 815	EMSTB 2,5/12-GF	1900170 311
EMG100-LG/MSTB	2907570 714	EML (44X49)R-ME	0828169 674	EML-RM (15X15)RL-T	0830542 815	EMSTB 2,5/12-GF-5,08	1899715 311
EMG100-LG/O	2907567 714	EML (44X53)R-ME	0828156 674	EML-RM (15X6)R	0830529 814	EMSTB 2,5/13-GF	1900183 311
EMG100-LG/SET	2906283 714	EML (44X64)R-ME	0828266 674	EML-RM (15X6)R CUS	0830553 815	EMSTB 2,5/13-GF-5,08	1899728 311
EMG125-B24	2947996 715	EML (44X72)R-ME	0828143 674	EML-RM (15X6)RL-T	0830541 815	EMSTB 2,5/14-GF	1900196 311
EMG125-H 7,5MM KLAR	2943194 715	EML (44X76)R-ME	0828130 674	EML-RM (20X7)R	0830531 814	EMSTB 2,5/14-GF-5,08	1899731 311
EMG125-H 15MM KLAR	2943181 715	EML-ESD (15X15)R	0830566 812	EML-RM (20X7)R CUS	0830555 815	EMSTB 2,5/15-GF	1900206 311
EMG125-H 52MM GN	2943518 715	EML-ESD (15X15)R CUS	0830590 813	EML-RM (20X7)RL-T	0830543 815	EMSTB 2,5/15-GF-5,08	1899744 311
EMG125-LG	2947983 715	EML-ESD (15X15)RL-T	0830578 813	EML-RM (24X4)R	0830532 814	EMSTB 2,5/16-GF	1900219 311
EMG125-LG/MSTB	2943288 715	EML-ESD (15X6)R	0830565 812	EML-RM (24X4)R CUS	0830556 815	EMSTB 2,5/16-GF-5,08	1899757 311
EMG150-B29	2946036 715	EML-ESD (15X6)R CUS	0830589 813	EML-RM (24X4)RL-T	0830544 815	EMSTBA 2,5/2-G	1899841 310
EMG150-H 7,5MM KLAR	2943178 715	EML-ESD (15X6)RL-T	0830577 813	EML-RM (25,4X12,7)R	0830534 814	EMSTBA 2,5/2-G-5,08	1880300 310
EMG150-H 15MM KLAR	2943165 715	EML-ESD (20X7)R	0830567 812	EML-RM (25,4X12,7)R CUS	0830558 815	EMSTBA 2,5/3-G	1899854 310
EMG150-H 52MM GN	2943521 715	EML-ESD (20X7)R CUS	0830591 813	EML-RM (25,4X12,7)RL-T	0830546 815	EMSTBA 2,5/ 3-G-5,08	1880313 310
EMG150-LG	2946023 715	EML-ESD (20X7)RL-T	0830579 813	EML-RM (25X8)R	0830533 814	EMSTBA 2,5/ 4-G	1899867 310
EMG150-LG/MSTB	2907596 715	EML-ESD (24X4)R	0830568 812	EML-RM (25X8)R CUS	0830557 815	EMSTBA 2,5/ 4-G-5,08	1880326 310
EMG150-LG/O	2906571 715	EML-ESD (24X4)R CUS	0830592 813	EML-RM (25X8)RL-T	0830545 815	EMSTBA 2,5/ 5-G	1899870 310
EML (100X73)R	0817125 808	EML-ESD (24X4)RL-T	0830580 813	EML-RM (32X10)R	0830535 814	EMSTBA 2,5/5-G-5,08	1880339 310
EML (100X73)R SR	0817112 809	EML-ESD (25,4X12,7)R	0830570 812	EML-RM (32X10)R CUS	0830559 815	EMSTBA 2,5/6-G	1899883 310
EML (100X73)R YE	0817138 809	EML-ESD (25,4X12,7)R CUS	0830594 813	EML-RM (32X10)RL-T	0830547 815	EMSTBA 2,5/6-G-5,08	1880342 310
EML (100X90)R	0817154 808	EML-ESD (25,4X12,7)RL-T	0830582 813	EML-RM (35X6,5)R	0830536 814	EMSTBA 2,5/7-G	1899896 310
EML (100X90)R SR	0817141 809	EML-ESD (25X8)R	0830569 812	EML-RM (35X6,5)R CUS	0830560 815	EMSTBA 2,5/7-G-5,08	1880355 310
EML (100XE)RL SR	0815787 809	EML-ESD (25X8)R CUS	0830593 813	EML-RM (35X6,5)RL-T	0830548 815	EMSTBA 2,5/8-G	1899906 310
EML (101,6X25,4)RL SR	0815790 809	EML-ESD (25X8)RL-T	0830581 813	EML-RM (40X15)R	0830537 814	EMSTBA 2,5/8-G-5,08	1880368 310
EML (10X4)R	0815583 808	EML-ESD (32X10)R	0830571 812	EML-RM (40X15)R CUS	0830561 815	EMSTBA 2,5/9-G	1899919 310
EML (10X7)R	0816663 808	EML-ESD (32X10)R CUS	0830595 813	EML-RM (40X15)RL-T	0830549 815	EMSTBA 2,5/9-G-5,08	1880371 310
EML (10X7)R YE	0816676 809	EML-ESD (32X10)RL-T	0830583 813	EML-RM (45X5)R	0830538 814	EMSTBA 2,5/10-G	1899922 310
EML (15X9)R	0815677 808	EML-ESD (35X6,5)R	0830572 812	EML-RM (45X5)R CUS	0830562 815	EMSTBA 2,5/10-G-5,08	1880384 310
EML (15X9)R SR	0816032 809	EML-ESD (35X6,5)R CUS	0830596 813	EML-RM (45X5)RL-T	0830550 815	EMSTBA 2,5/11-G	1899935 310
EML (15X9)R YE	0816045 809	EML-ESD (35X6,5)RL-T	0830584 813	EML-RM (50X10)R	0830539 814	EMSTBA 2,5/11-G-5,08	1880397 310
EML (16,5X5)R	0816702 808	EML-ESD (40X15)R	0830573 812	EML-RM (50X10)R CUS	0830563 815	EMSTBA 2,5/12-G	1899948 310
EML (16,5X5)R YE	0816728 809	EML-ESD (40X15)R CUS	0830597 813	EML-RM (50X10)RL-T	0830551 815	EMSTBA 2,5/12-G-5,08	1880407 310
EML (16,5X5)RL	0816113 808	EML-ESD (40X15)RL-T	0830585 813	EML-RM (8X8)R	0830528 814	EMSTBA 2,5/13-G	1899951 310
EML (16,5X5)RL YE	0816126 809	EML-ESD (45X5)R	0830574 812	EML-RM (8X8)R CUS	0830552 815	EMSTBA 2,5/13-G-5,08	1880410 310
EML (16X7)R	0818001 808	EML-ESD (45X5)R CUS	0830598 813	EML-RM (8X8)RL-T	0830540 815	EMSTBA 2,5/14-G	1899964 310
EML (16X7)R YE	0816731 809	EML-ESD (45X5)RL-T	0830586 813	EMLS (15X9)R SR	0800347 816	EMSTBA 2,5/14-G-5,08	1880423 310
EML (17,5X8)R	0816744 808	EML-ESD (50X10)R	0830575 812	EMLS (15X9)R SR CUS	0830175 817	EMSTBA 2,5/15-G	1899977 310
EML (17,5X8)R YE EML (17,5X8)RL YE EML (19X6)R EML (20X7)R YE	0816757 809	EML-ESD (50X10)R CUS	0830599 813	EMLS (19X6)R SR	0800343 816	EMSTBA 2,5/15-G-5,08	1880436 310
	0816139 809	EML-ESD (50X10)RL-T	0830587 813	EMLS (19X6)R SR CUS	0830171 817	EMSTBA 2,5/16-G	1899980 310
	0816760 808	EML-ESD (8X8)R	0830564 812	EMLS (20X20)R SR	0800344 816	EMSTBA 2,5/16-G-5,08	1880449 310
	0816773 809	EML-ESD (8X8)R CUS	0830588 813	EMLS (20X20)R SR CUS	0830172 817	EMSTBV 2,5/2-GF	1914055 311

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EMSTBV 2,5/3-GF	1914068 311	FBSK 3-15/ZFKDS 10	1986686 830	FK-MCP 1,5/ 9-STF-3,5	1940169 199	FK-MPT 0,5/ 9-3,5-H	1928835 403
EMSTBV 2,5/3-GF-5,08	1898648 311	FBSK 4-10/ZFKDS 10	1986660 830	FK-MCP 1,5/ 9-STF-3,81	1851300 199	FK-MPT 0,5/ 9-ICA-3,5	1930399 404
EMSTBV 2,5/4-GF	1914071 311	FBSK 4-15/ZFKDS 10	1986673 830	FK-MCP 1,5/10-ST-3,5	1939989 198	FK-MPT 0,5/ 9-ICVA-3,5	1930548 405
EMSTBV 2,5/ 4-GF-5,08	1915233 311	FFKDS/H-2,54	1791826 145	FK-MCP 1,5/10-ST-3,5-LR	1817314 199	FK-MPT 0,5/9-ST-3,5	1913992 403
EMSTBV 2,5/ 5-GF	1914084 311	FFKDS/H-3,81	1789650 145	FK-MCP 1,5/10-ST-3,81	1851122 198	FK-MPT 0,5/10-3,5	1891140 403
EMSTBV 2,5/ 5-GF-5,08	1915246 311	FFKDS/H1-5,08	1790335 147	FK-MCP 1,5/10-ST-3,81-LR	1817505 199	FK-MPT 0,5/10-3,5-H	1928848 403
EMSTBV 2,5/ 6-GF	1915107 311	FFKDS/H2-5,08	1790461 147	FK-MCP 1,5/10-STF-3,5	1940172 199	FK-MPT 0,5/10-ICA-3,5	1930409 404
EMSTBV 2,5/6-GF-5,08	1915259 311	FFKDS/V-2,54	1791813 145	FK-MCP 1,5/10-STF-3,81	1851313 199	FK-MPT 0,5/10-ICVA-3,5	1930551 405
EMSTBV 2,5/7-GF	1915110 311	FFKDS/V-3,81	1789647 147	FK-MCP 1,5/11-ST-3,5	1939992 198	FK-MPT 0,5/10-ST-3,5	1914001 403
EMSTBV 2,5/7-GF-5,08	1915262 311	FFKDS/V1-5,08	1790319 149	FK-MCP 1,5/11-ST-3,5-LR	1817327 199	FK-MPT 0,5/11-3,5	1891153 403
EMSTBV 2,5/8-GF	1915123 311	FFKDS/V2-5,08	1790348 149	FK-MCP 1,5/11-ST-3,81	1851135 198	FK-MPT 0,5/11-3,5-H	1928851 403
EMSTBV 2,5/8-GF-5,08	1915275 311	FFKDSA/H1-7,62	1790351 149	FK-MCP 1,5/11-ST-3,81-LR	1817518 199	FK-MPT 0,5/11-ICA-3,5	1930412 404
EMSTBV 2,5/9-GF	1915136 311	FFKDSA/H2-7,62	1790458 151	FK-MCP 1,5/11-STF-3,5	1940185 199	FK-MPT 0,5/11-ICVA-3,5	1930564 405
EMSTBV 2,5/9-GF-5,08	1915288 311	FFKDSA/V1-7,62	1790364 151	FK-MCP 1,5/11-STF-3,81	1851326 199	FK-MPT 0,5/11-ST-3,5	1914027 403
EMSTBV 2,5/10-GF	1915149 311	FFKDSA/V2-7,62	1790377 151	FK-MCP 1,5/12-ST-3,5	1940004 198	FK-MPT 0,5/12-3,5	1891166 403
EMSTBV 2,5/10-GF-5,08	1915291 311	FFKDSA1/H-5,08	1791868 145	FK-MCP 1,5/12-ST-3,5-LR	1817330 199	FK-MPT 0,5/12-3,5-H	1928864 403
EMSTBV 2,5/11-GF	1915152 311	FFKDSA1/H-6,35	1789634 145	FK-MCP 1,5/12-ST-3,81	1851148 198	FK-MPT 0,5/12-ICA-3,5	1930425 404
EMSTBV 2,5/11-GF-5,08	1915301 311	FFKDSA1/H1-7,62	1790513 147	FK-MCP 1,5/12-ST-3,81-LR	1817521 199	FK-MPT 0,5/12-ICVA-3,5	1930577 405
EMSTBV 2,5/12-GF	1915165 311	FFKDSA1/H2-7,62	1790500 147	FK-MCP 1,5/12-STF-3,5	1940198 199	FK-MPT 0,5/12-ST-3,5	1914030 403
EMSTBV 2,5/12-GF-5,08	1915314 311	FFKDSA1/V-5,08	1791855 145	FK-MCP 1,5/12-STF-3,81	1851339 199	FK-MPT 0,5/13-3,5	1891179 403
EMSTBV 2,5/13-GF	1915178 311	FFKDSA1/V-6,35	1789621 147	FK-MCP 1,5/13-ST-3,5	1940017 198	FK-MPT 0,5/13-3,5-H	1928877 403
EMSTBV 2,5/13-GF-5,08	1915327 311	FFKDSA1/V1-7,62	1790490 149	FK-MCP 1,5/13-ST-3,5-LR	1817343 199	FK-MPT 0,5/13-ICA-3,5	1930438 404
EMSTBV 2,5/14-GF	1915181 311	FFKDSA1/V2-7,62	1790487 149	FK-MCP 1,5/13-ST-3,81	1851151 198	FK-MPT 0,5/13-ICVA-3,5	1930580 405
EMSTBV 2,5/14-GF-5,08	1915330 311	FK-MC 0,5/ 2-ST-2,5	1881325 168	FK-MCP 1,5/13-ST-3,81-LR	1817534 199	FK-MPT 0,5/13-ST-3,5	1914043 403
EMSTBV 2,5/15-GF	1915194 311	FK-MC 0,5/ 3-ST-2,5	1881338 168	FK-MCP 1,5/13-STF-3,5	1940208 199	FK-MPT 0,5/14-3,5	1891182 403
EMSTBV 2,5/15-GF-5,08	1915343 311	FK-MC 0,5/ 4-ST-2,5	1881341 168	FK-MCP 1,5/13-STF-3,81	1851342 199	FK-MPT 0,5/14-3,5-H	1928880 403
EMSTBV 2,5/16-GF	1915204 311	FK-MC 0,5/ 5-ST-2,5	1881354 168	FK-MCP 1,5/14-ST-3,5	1940020 198	FK-MPT 0,5/14-ICA-3,5	1930441 404
EMSTBV 2,5/16-GF-5,08	1915356 311	FK-MC 0,5/ 6-ST-2,5	1881367 168	FK-MCP 1,5/14-ST-3,5-LR	1817356 199	FK-MPT 0,5/14-ICVA-3,5	1930593 405
EMSTBVA 2,5-SS-1-5,08	1877216 826	FK-MC 0,5/ 7-ST-2,5	1881370 168	FK-MCP 1,5/14-ST-3,81	1851164 198	FK-MPT 0,5/14-ST-3,5	1914056 403
EMSTBVA 2,5/2-G	1914852 311	FK-MC 0,5/ 8-ST-2,5	1881383 168	FK-MCP 1,5/14-ST-3,81-LR	1817547 199	FK-MPT 0,5/15-3,5	1891195 403
EMSTBVA 2,5/2-G-5,08	1859519 311	FK-MC 0,5/ 9-ST-2,5	1881396 168	FK-MCP 1,5/14-STF-3,5	1940211 199	FK-MPT 0,5/15-3,5-H	1928893 403
EMSTBVA 2,5/ 3-G	1914865 311	FK-MC 0,5/10·ST-2,5	1881406 168	FK-MCP 1,5/14-STF-3,81	1851355 199	FK-MPT 0,5/15-ICA-3,5	1930454 404
EMSTBVA 2,5/ 3-G-5,08	1859522 311	FK-MC 0,5/11·ST-2,5	1881419 168	FK-MCP 1,5/15-ST-3,5	1940033 198	FK-MPT 0,5/15-ICVA-3,5	1930603 405
EMSTBVA 2,5/ 4-G	1914878 311	FK-MC 0,5/12·ST-2,5	1881422 168	FK-MCP 1,5/15-ST-3,5-LR	1817369 199	FK-MPT 0,5/15-ST-3,5	1914069 403
EMSTBVA 2,5/ 4-G-5,08	1859535 311	FK-MCP 1,5/2·ST-3,5	1939918 198	FK-MCP 1,5/15-ST-3,81	1851177 198	FK-MPT 0,5/16-3,5	1891205 403
EMSTBVA 2,5/5-G	1914881 311	FK-MCP 1,5/ 2-ST-3,5-LR	1817233 199	FK-MCP 1,5/15-ST-3,81-LR	1817550 199	FK-MPT 0,5/16-3,5-H	1928903 403
EMSTBVA 2,5/5-G-5,08	1859548 311	FK-MCP 1,5/ 2-ST-3,81	1851041 198	FK-MCP 1,5/15-STF-3,5	1940224 199	FK-MPT 0,5/16-ICA-3,5	1930467 404
EMSTBVA 2,5/6-G	1914894 311	FK-MCP 1,5/ 2-ST-3,81-LR	1817424 199	FK-MCP 1,5/15-STF-3,81	1851368 199	FK-MPT 0,5/16-ICVA-3,5	1930616 405
EMSTBVA 2,5/6-G-5,08	1859551 311	FK-MCP 1,5/ 2-STF-3,5	1940091 199	FK-MCP 1,5/16-ST-3,5	1940046 198	FK-MPT 0,5/16-ST-3,5	1914072 403
EMSTBVA 2,5/ 7-G	1914904 311	FK-MCP 1,5/ 2-STF-3,81	1851232 199	FK-MCP 1,5/16-ST-3,5-LR	1817372 199	FKC 2,5 HC/ 2-ST	1942154 494
EMSTBVA 2,5/ 7-G-5,08	1859564 311	FK-MCP 1,5/ 3-ST-3,5	1939921 198	FK-MCP 1,5/16-ST-3,81	1851180 198	FKC 2,5 HC/ 2-ST-5,08	1942374 494
EMSTBVA 2,5/ 8-G	1914917 311	FK-MCP 1,5/ 3-ST-3,5-LR	1817246 199	FK-MCP 1,5/16-ST-3,81-LR	1817563 199	FKC 2,5 HC/ 2-STF	1942264 495
EMSTBVA 2,5/ 8-G-5,08	1859577 311	FK-MCP 1,5/ 3-ST-3,81	1851054 198	FK-MCP 1,5/16-STF-3,5	1940237 199	FKC 2,5 HC/ 2-STF-5,08	1942484 495
EMSTBVA 2,5/ 9-G	1914920 311	FK-MCP 1,5/3-ST-3,81-LR	1817437 199	FK-MCP 1,5/16-STF-3,81	1851371 199	FKC 2,5 HC/ 3-ST	1942167 494
EMSTBVA 2,5/ 9-G-5,08	1859580 311	FK-MCP 1,5/3-STF-3,5	1940101 199	FK-MPT 0,5/2-3,5	1891069 403	FKC 2,5 HC/ 3-ST-5,08	1942387 494
EMSTBVA 2,5/10-G	1914933 311	FK-MCP 1,5/3-STF-3,81	1851245 199	FK-MPT 0,5/2-3,5-H	1928767 403	FKC 2,5 HC/ 3-STF	1942277 495
EMSTBVA 2,5/10-G-5,08	1859593 311	FK-MCP 1,5/4-ST-3,5	1939934 198	FK-MPT 0,5/2-ICA-3,5	1930328 404	FKC 2,5 HC/ 3-STF-5,08	1942497 495
EMSTBVA 2,5/11-G	1914946 311	FK-MCP 1,5/ 4-ST-3,5-LR	1817259 199	FK-MPT 0,5/2-ICVA-3,5	1930470 405	FKC 2,5 HC/ 4-ST	1942170 494
EMSTBVA 2,5/11-G-5,08	1859603 311	FK-MCP 1,5/ 4-ST-3,81	1851067 198	FK-MPT 0,5/2-ST-3,5	1913921 403	FKC 2,5 HC/ 4-ST-5,08	1942390 494
EMSTBVA 2,5/12-G	1914959 311	FK-MCP 1,5/ 4-ST-3,81-LR	1817440 199	FK-MPT 0,5/3-3,5	1891072 403	FKC 2,5 HC/ 4-STF	1942280 495
EMSTBVA 2,5/12-G-5,08	1859616 311	FK-MCP 1,5/ 4-STF-3,5	1940114 199	FK-MPT 0,5/3-3,5-H	1928770 403	FKC 2,5 HC/ 4-STF-5,08	1942507 495
EMSTBVA 2,5/13-G	1914962 311	FK-MCP 1,5/ 4-STF-3,81	1851258 199	FK-MPT 0,5/ 3-ICA-3,5	1930331 404	FKC 2,5 HC/ 5-ST	1942183 494
EMSTBVA 2,5/13-G-5,08	1859629 311	FK-MCP 1,5/ 5-ST-3,5	1939947 198	FK-MPT 0,5/ 3-ICVA-3,5	1930483 405	FKC 2,5 HC/ 5-ST-5,08	1942400 494
EMSTBVA 2,5/14-G	1914975 311	FK-MCP 1,5/ 5-ST-3,5-LR	1817262 199	FK-MPT 0,5/ 3-ST-3,5	1913934 403	FKC 2,5 HC/ 5-STF	1942293 495
EMSTBVA 2,5/14-G-5,08	1859632 311	FK-MCP 1,5/ 5-ST-3,81	1851070 198	FK-MPT 0,5/ 4-3,5	1891085 403	FKC 2,5 HC/ 5-STF-5,08	1942510 495
EMSTBVA 2,5/15-G	1914988 311	FK-MCP 1,5/5-ST-3,81-LR	1817453 199	FK-MPT 0,5/ 4-3,5-H	1928783 403	FKC 2,5 HC/ 6-ST	1942196 494
EMSTBVA 2,5/15-G-5,08	1859645 311	FK-MCP 1,5/5-STF-3,5	1940127 199	FK-MPT 0,5/ 4-ICA-3,5	1930344 404	FKC 2,5 HC/ 6-ST-5,08	1942413 494
EMSTBVA 2,5/16-G	1914991 311	FK-MCP 1,5/5-STF-3,81	1851261 199	FK-MPT 0,5/ 4-ICVA-3,5	1930496 405	FKC 2,5 HC/ 6-STF	1942303 495
EMSTBVA 2,5/16-G-5,08	1859658 311	FK-MCP 1,5/6-ST-3,5	1939950 198	FK-MPT 0,5/ 4-ST-3,5	1913947 403	FKC 2,5 HC/ 6-STF-5,08	1942523 495
ESL 15X5 ESL 20X5	0822592 675 0822589 675	FK-MCP 1,5/6-ST-3,5-LR FK-MCP 1,5/6-ST-3,81 FK-MCP 1,5/6-ST-3,81-LR FK-MCP 1,5/6-STF-3,5	1817275 199 1851083 198 1817466 199 1940130 199	FK-MPT 0,5/ 5-3,5 FK-MPT 0,5/ 5-3,5-H FK-MPT 0,5/ 5-ICA-3,5 FK-MPT 0,5/ 5-ICVA-3,5	1891098 403 1928796 403 1930357 404 1930506 405	FKC 2,5 HC/ 7-ST FKC 2,5 HC/ 7-ST-5,08 FKC 2,5 HC/ 7-STF FKC 2,5 HC/ 7-STF-5,08	1942206 494 1942426 494 1942316 495 1942536 495
F		FK-MCP 1,5/6-STF-3,81 FK-MCP 1,5/7-ST-3,5 FK-MCP 1,5/7-ST-3,5-LR FK-MCP 1,5/7-ST-3,81	1851274 199 1939960 198 1817288 199 1851096 198	FK-MPT 0,5/5-ST-3,5 FK-MPT 0,5/6-3,5 FK-MPT 0,5/6-3,5-H FK-MPT 0,5/6-ICA-3,5	1913950 403 1891108 403 1928806 403 1930360 404	FKC 2,5 HC/ 8-ST FKC 2,5 HC/ 8-ST-5,08 FKC 2,5 HC/ 8-STF FKC 2,5 HC/ 8-STF-5,08	1942219 494 1942439 494 1942329 495 1942549 495
FBSK 2-10	1928398 830	FK-MCP 1,5/7-ST-3,81-LR	1817479 199	FK-MPT 0,5/6-ICVA-3,5	1930519 405	FKC 2,5 HC/ 9-ST	1942222 494
FBSK 2-7,5	1928343 830	FK-MCP 1,5/7-STF-3,5	1940143 199	FK-MPT 0,5/6-ST-3,5	1913963 403	FKC 2,5 HC/ 9-ST-5,08	1942442 494
FBSK 3-10	1928408 830	FK-MCP 1,5/7-STF-3,81	1851287 199	FK-MPT 0,5/7-3,5	1891111 403	FKC 2,5 HC/ 9-STF	1942332 495
FBSK 3-7,5	1928356 830	FK-MCP 1,5/8-ST-3,5	1939963 198	FK-MPT 0,5/7-3,5-H	1928819 403	FKC 2,5 HC/ 9-STF-5,08	1942552 495
FBSK 4-10	1928411 830	FK-MCP 1,5/8-ST-3,5-LR	1817291 199	FK-MPT 0,5/7-ICA-3,5	1930373 404	FKC 2,5 HC/10-ST	1942235 494
FBSK 4-7,5	1928369 830	FK-MCP 1,5/8-ST-3,81	1851106 198	FK-MPT 0,5/7-ICVA-3,5	1930522 405	FKC 2,5 HC/10-ST-5,08	1942455 494
FBSK 5-10	1928424 830	FK-MCP 1,5/8-ST-3,81-LR	1817482 199	FK-MPT 0,5/7-ST-3,5	1913976 403	FKC 2,5 HC/10-STF	1942345 495
FBSK 5-7,5	1928372 830	FK-MCP 1,5/8-STF-3,5	1940156 199	FK-MPT 0,5/8-3,5	1891124 403	FKC 2,5 HC/10-STF-5,08	1942565 495
FBSK 10-10	1928437 830	FK-MCP 1,5/8-STF-3,81	1851290 199	FK-MPT 0,5/ 8-3,5-H	1928822 403	FKC 2,5 HC/11-ST	1942248 494
FBSK 10-7,5	1928385 830	FK-MCP 1,5/9-ST-3,5	1939976 198	FK-MPT 0,5/ 8-ICA-3,5	1930386 404	FKC 2,5 HC/11-ST-5,08	1942468 494
FBSK 2-10/ZFKDS 10	1986644 830	FK-MCP 1,5/9-ST-3,5-LR	1817301 199	FK-MPT 0,5/ 8-ICVA-3,5	1930535 405	FKC 2,5 HC/11-STF	1942358 495
FBSK 2-15/ZFKDS 10	1986699 830	FK-MCP 1,5/9-ST-3,81	1851119 198	FK-MPT 0,5/ 8-ST-3,5	1913989 403	FKC 2,5 HC/11-STF-5,08	1942578 495

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FKC 2,5 HC/12-STF	1942361 495	FKC 2,5/10-STF	1910607 275	FKCN 2,5/ 9-STF-5,08	1754869 279	FKCS 2,5/14-STF-5,08	1975383 277
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FKC 2,5/2-ST-5,08-LR	1792517 275	FKC 2,5/11-ST-5,08	1873142 274	FKCN 2,5/10-STF-5,08	1754872 279	FKCS 2,5/15-STF-5,08	1975396 277
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FKCVR 2,5/13-ST	1909825 280	FKIC 2,5 HC/2-ST-5,08	1942594 495	FKIC 2,5/11-STF-5,08	1873595 287	FKICS 2,5/12-STD-5,08-RN	1808828 289
FKCVR 2,5/13-ST-5,08	1874060 280	FKIC 2,5 HC/2-STF-5,08	1942701 495	FKIC 2,5/11-STF-5,08 EX	1810311 373	FKICS 2,5/12-STF	1981694 289
FKCVR 2,5/13-STF	1909993 281	FKIC 2,5 HC/3-ST-5,08	1942604 495	FKIC 2,5/12-ST	1910775 286	FKICS 2,5/12-STF-5,08	1981995 289
FKCVR 2,5/13-STF-5,08	1874219 281	FKIC 2,5 HC/3-STF-5,08	1942714 495	FKIC 2,5/12-ST-5,08	1873456 286	FKICS 2,5/13-ST	1981555 288
FKCVR 2,5/14-ST	1909838 280	FKIC 2,5 HC/4-ST-5,08	1942617 495	FKIC 2,5/12-ST-5,08-RN	1925964 287	FKICS 2,5/13-ST-5,08	1981856 288
FKCVR 2,5/14-ST-5,08	1874073 280	FKIC 2,5 HC/4-STF-5,08	1942727 495	FKIC 2,5/12-STF	1910924 287	FKICS 2,5/13-STD-5,08-RN	1808831 289
FKCVR 2,5/14-STF	1910005 281	FKIC 2,5 HC/5-ST-5,08	1942620 495	FKIC 2,5/12-STF-5,08	1873605 287	FKICS 2,5/13-STF	1981704 289
FKCVR 2,5/14-STF-5,08	1874222 281	FKIC 2,5 HC/5-STF-5,08	1942730 495	FKIC 2,5/12-STF-5,08 EX	1810324 373	FKICS 2,5/13-STF-5,08	1982004 289
FKCVR 2,5/15-ST	1909841 280	FKIC 2,5 HC/6-ST-5,08	1942633 495	FKIC 2,5/13-ST	1910788 286	FKICS 2,5/14-ST	1981568 288
FKCVR 2,5/15-ST-5,08	1874086 280	FKIC 2,5 HC/6-STF-5,08	1942743 495	FKIC 2,5/13-ST-5,08	1873469 286	FKICS 2,5/14-ST-5,08	1981869 288
FKCVR 2,5/15-STF	1910018 281	FKIC 2,5 HC/7-ST-5,08	1942646 495	FKIC 2,5/13-ST-5,08-RN	1925977 287	FKICS 2,5/14-STD-5,08-RN	1808844 289
FKCVR 2,5/15-STF-5,08	1874235 281	FKIC 2,5 HC/7-STF-5,08	1942756 495	FKIC 2,5/13-STF	1910937 287	FKICS 2,5/14-STF	1981717 289
FKCVR 2,5/16-ST	1909854 280	FKIC 2,5 HC/8-ST-5,08	1942659 495	FKIC 2,5/13-STF-5,08	1873618 287	FKICS 2,5/14-STF-5,08	1982017 289
FKCVR 2,5/16-ST-5,08	1874099 280	FKIC 2,5 HC/8-STF-5,08	1942769 495	FKIC 2,5/14-ST	1910791 286	FKICS 2,5/15-ST	1981571 288
FKCVR 2,5/16-STF	1910021 281	FKIC 2,5 HC/9-ST-5,08	1942662 495	FKIC 2,5/14-ST-5,08	1873472 286	FKICS 2,5/15-ST-5,08	1981872 288
FKCVR 2,5/16-STF-5,08	1874248 281	FKIC 2,5 HC/9-STF-5,08	1942772 495	FKIC 2,5/14-ST-5,08-RN	1925980 287	FKICS 2,5/15-STD-5,08-RN	1808857 289
FKCVW 2,5/ 2-ST	1910034 281	FKIC 2,5 HC/10-ST-5,08	1942675 495	FKIC 2,5/14-STF	1910940 287	FKICS 2,5/15-STF	1981720 289
FKCVW 2,5/ 2-ST-5,08	1873650 281	FKIC 2,5 HC/10-STF-5,08	1942785 495	FKIC 2,5/14-STF-5,08	1873621 287	FKICS 2,5/15-STF-5,08	1982020 289
FKCVW 2,5/ 2-STF	1910209 281	FKIC 2,5 HC/11-ST-5,08	1942688 495	FKIC 2,5/15-ST	1910801 286	FKICS 2,5/16-ST	1981584 288
FKCVW 2,5/ 2-STF-5,08	1873809 281	FKIC 2,5 HC/11-STF-5,08	1942798 495	FKIC 2,5/15-ST-5,08	1873485 286	FKICS 2,5/16-ST-5,08	1981885 288
FKCVW 2,5/ 3-ST	1910047 281	FKIC 2,5 HC/12-ST-5,08	1942691 495	FKIC 2,5/15-ST-5,08-RN	1925993 287	FKICS 2,5/16-STD-5,08-RN	1808860 289
FKCVW 2,5/ 3-ST-5,08	1873663 281	FKIC 2,5 HC/12-STF-5,08	1942808 495	FKIC 2,5/15-STF	1910953 287	FKICS 2,5/16-STF	1981733 289
FKCVW 2,5/ 3-STF	1910212 281	FKIC 2,5/ 2-ST	1910678 286	FKIC 2,5/15-STF-5,08	1873634 287	FKICS 2,5/16-STF-5,08	1982033 289
FKCVW 2,5/ 3-STF-5,08	1873812 281	FKIC 2,5/ 2-ST-5,08	1873359 286	FKIC 2,5/16-ST	1910814 286	FLRP/ICV 80	1808353 837
FKCVW 2,5/ 4-ST	1910050 281	FKIC 2,5/ 2-ST-5,08-RN	1925867 287	FKIC 2,5/16-ST-5,08	1873498 286	FMC 0,5/2-ST-2,54	1821096 174
FKCVW 2,5/ 4-ST-5,08	1873676 281	FKIC 2,5/ 2-STF	1910827 287	FKIC 2,5/16-ST-5,08-RN	1926002 287	FMC 0,5/2-ST-2,54 C1	1706263 175
FKCVW 2,5/ 4-STF	1910225 281	FKIC 2,5/ 2-STF-5,08	1873508 287	FKIC 2,5/16-STF	1910966 287	FMC 0,5/2-ST-2,54 C2	1706243 175
FKCVW 2,5/ 4-STF-5,08	1873825 281	FKIC 2,5/ 2-STF-5,08 EX	1810227 373	FKIC 2,5/16-STF-5,08	1873647 287	FMC 0,5/3-ST-2,54	1821106 174
FKCVW 2,5/ 5-ST	1910063 281	FKIC 2,5/ 3-ST	1910681 286	FKICS 2,5/2-ST	1981445 288	FMC 0,5/3-ST-2,54 C1	1706262 175
FKCVW 2,5/ 5-ST-5,08	1873689 281	FKIC 2,5/ 3-ST-5,08	1873362 286	FKICS 2,5/2-ST-5,08	1981746 288	FMC 0,5/ 3-ST-2,54 C2	1706242 175
FKCVW 2,5/ 5-STF	1910238 281	FKIC 2,5/ 3-ST-5,08-RN	1925870 287	FKICS 2,5/2-STD-5,08-RN	1808721 289	FMC 0,5/ 4-ST-2,54	1821119 174
FKCVW 2,5/ 5-STF-5,08	1873838 281	FKIC 2,5/ 3-STF	1910830 287	FKICS 2,5/2-STF	1981597 289	FMC 0,5/ 4-ST-2,54 C1	1706261 175
FKCVW 2,5/ 6-ST-5,08	1873692 281	FKIC 2,5/ 3-STF-5,08	1873511 287	FKICS 2,5/2-STF-5,08	1981898 289	FMC 0,5/ 4-ST-2,54 C2	1706241 175
FKCVW 2,5/ 6-STF-5,08	1873841 281	FKIC 2,5/ 3-STF-5,08 EX	1810230 373	FKICS 2,5/3-ST	1981458 288	FMC 0,5/5-ST-2,54	1821122 174
FKCVW 2,5/ 7-ST	1910089 281	FKIC 2,5/ 4-ST	1910694 286	FKICS 2,5/3-ST-5,08	1981759 288	FMC 0,5/5-ST-2,54 C1	1706259 175
FKCVW 2,5/ 7-ST-5,08	1873702 281	FKIC 2,5/ 4-ST-5,08	1873375 286	FKICS 2,5/3-STD-5,08-RN	1808734 289	FMC 0,5/5-ST-2,54 C2	1706240 175
FKCVW 2,5/ 7-STF	1910254 281	FKIC 2,5/ 4-ST-5,08-RN	1925883 287	FKICS 2,5/3-STF	1981607 289	FMC 0,5/6-ST-2,54	1821135 174
FKCVW 2,5/ 7-STF-5,08	1873854 281	FKIC 2,5/ 4-STF	1910843 287	FKICS 2,5/3-STF-5,08	1981908 289	FMC 0,5/6-ST-2,54 C1	1706258 175
FKCVW 2,5/ 8-ST	1910092 281	FKIC 2,5/ 4-STF-5,08	1873524 287	FKICS 2,5/4-ST	1981461 288	FMC 0,5/6-ST-2,54 C2	1706239 175
FKCVW 2,5/ 8-ST-5,08	1873715 281	FKIC 2,5/ 4-STF-5,08 EX	1810243 373	FKICS 2,5/4-ST-5,08	1981762 288	FMC 0,5/7-ST-2,54	1821148 174
FKCVW 2,5/ 8-STF	1910267 281	FKIC 2,5/ 5-ST	1910704 286	FKICS 2,5/4-STD-5,08-RN	1808747 289	FMC 0,5/7-ST-2,54 C1	1706256 175
FKCVW 2,5/ 8-STF-5,08	1873867 281	FKIC 2,5/ 5-ST-5,08	1873388 286	FKICS 2,5/4-STF	1981610 289	FMC 0,5/7-ST-2,54 C2	1706238 175
FKCVW 2,5/ 9-ST	1910102 281	FKIC 2,5/ 5-ST-5,08-RN	1925896 287	FKICS 2,5/4-STF-5,08	1981911 289	FMC 0,5/8-ST-2,54	1821151 174
FKCVW 2,5/ 9-ST-5,08	1873728 281	FKIC 2,5/ 5-STF	1910856 287	FKICS 2,5/5-ST	1981474 288	FMC 0,5/8-ST-2,54 C1	1706255 175
FKCVW 2,5/ 9-STF	1910270 281	FKIC 2,5/ 5-STF-5,08	1873537 287	FKICS 2,5/5-ST-5,08	1981775 288	FMC 0,5/8-ST-2,54 C2	1706237 175

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Туре	Order No. Page	Туре	Order No. Page	Туре	Order No. Page	Туре	Order No. Page
FMC 0,5/ 9-ST-2,54	1821164 174	FMC 1,5/13-ST-3,5-RF	1952131 201	FRONT 2,5-V/SA10/ 9	1704907 115	FRONT-MSTB 2,5/ 7-ST	1779466 269
FMC 0,5/ 9-ST-2,54 C1	1706254 175	FMC 1,5/13-ST-3,81	1748082 200	FRONT 2,5-V/SA10/10	1700778 115	FRONT-MSTB 2,5/ 7-ST-5,08	1777332 269
FMC 0,5/ 9-ST-2,54 C2	1706236 175	FMC 1,5/13-STF-3,5	1966208 201	FRONT 2,5-V/SA10/11	1773293 115	FRONT-MSTB 2,5/ 7-STF	1779699 269
FMC 0,5/10-ST-2,54	1821177 174	FMC 1,5/13-STF-3,81	1748464 201	FRONT 2,5-V/SA10/12	1931741 115	FRONT-MSTB 2,5/ 7-STF-5,08	1777853 269
FMC 0,5/10-ST-2,54 C1	1706253 175	FMC 1,5/14-ST-3,5	1952380 200	FRONT 4-H-6,35	1703050 459	FRONT-MSTB 2,5/ 8-ST	1779479 269
FMC 0,5/10-ST-2,54 C2	1706234 175	FMC 1,5/14-ST-3,5-RF	1952144 201	FRONT 4-H-7,62	1703034 461	FRONT-MSTB 2,5/ 8-ST-5,08	1777345 269
FMC 0,5/11-ST-2,54	1821180 174	FMC 1,5/14-ST-3,81	1748095 200	FRONT 4-V-6,35	1703063 459	FRONT-MSTB 2,5/ 8-STF	1779709 269
FMC 0,5/11-ST-2,54 C1	1706252 175	FMC 1,5/14-STF-3,5	1966211 201	FRONT 4-V-7,62	1703021 461	FRONT-MSTB 2,5/ 8-STF-5,08	1777798 269
FMC 0,5/11-ST-2,54 C2	1706233 175	FMC 1,5/14-STF-3,81	1748477 201	FRONT-GMSTB 2,5/ 2-ST-7,62	1806119 335	FRONT-MSTB 2,5/ 9-ST	1779482 269
FMC 0,5/12-ST-2,54	1821193 174	FMC 1,5/15-ST-3,5	1952393 200	FRONT-GMSTB 2,5/ 2-STF-7,62	1805987 335	FRONT-MSTB 2,5/ 9-ST-5,08	1777358 269
FMC 0,5/12-ST-2,54 C1	1706250 175	FMC 1,5/15-ST-3,5-RF	1952157 201	FRONT-GMSTB 2,5/ 3-ST-7,62	1806122 335	FRONT-MSTB 2,5/ 9-STF	1779712 269
FMC 0,5/12-ST-2,54 C2	1706232 175	FMC 1,5/15-ST-3,81	1748105 200	FRONT-GMSTB 2,5/ 3-STF-7,62	1805990 335	FRONT-MSTB 2,5/ 9-STF-5,08	1777866 269
FMC 0,5/13-ST-2,54	1821203 174	FMC 1,5/15-STF-3,5	1966224 201	FRONT-GMSTB 2,5/ 4-ST-7,62	1806135 335	FRONT-MSTB 2,5/10-ST	1779495 269
FMC 0,5/13-ST-2,54 C1	1706249 175	FMC 1,5/15-STF-3,81	1748480 201	FRONT-GMSTB 2,5/ 4-STF-7,62	1806009 335	FRONT-MSTB 2,5/10-ST-5,08	1777361 269
FMC 0,5/13-ST-2,54 C2	1706230 175	FMC 1,5/16-ST-3,5	1952403 200	FRONT-GMSTB 2,5/ 5-ST-7,62	1806148 335	FRONT-MSTB 2,5/10-STF	1779725 269
FMC 0,5/14-ST-2,54	1821216 174	FMC 1,5/16-ST-3,5-RF	1952160 201	FRONT-GMSTB 2,5/ 5-STF-7,62	1806038 335	FRONT-MSTB 2,5/10-STF-5,08	1777879 269
FMC 0,5/14-ST-2,54 C1	1706247 175	FMC 1,5/16-ST-3,81	1748118 200	FRONT-GMSTB 2,5/ 6-ST-7,62	1806151 335	FRONT-MSTB 2,5/11-ST	1779505 269
FMC 0,5/14-ST-2,54 C2	1706229 175	FMC 1,5/16-STF-3,5	1966237 201	FRONT-GMSTB 2,5/ 6-STF-7,62	1806041 335	FRONT-MSTB 2,5/11-ST-5,08	1777374 269
FMC 0,5/15-ST-2,54	1821229 174	FMC 1,5/16-STF-3,81	1748493 201	FRONT-GMSTB 2,5/ 7-ST-7,62	1806164 335	FRONT-MSTB 2,5/11-STF	1779738 269
FMC 0,5/15-ST-2,54 C1	1706246 175	FMCD 1,5/3-ST-3,5	1738814 201	FRONT-GMSTB 2,5/ 7-STF-7,62	1806054 335	FRONT-MSTB 2,5/11-STF-5,08	1777882 269
FMC 0,5/15-ST-2,54 C2	1706227 175	FMCD 1,5/ 4-ST-3,5	1738827 201	FRONT-GMSTB 2,5/ 8-ST-7,62	1806177 335	FRONT-MSTB 2,5/12-ST	1779518 269
FMC 0,5/16-ST-2,54	1821232 174	FMCD 1,5/ 5-ST-3,5	1738830 201	FRONT-GMSTB 2,5/ 8-STF-7,62	1806067 335	FRONT-MSTB 2,5/12-ST-5,08	1777387 269
FMC 0,5/16-ST-2,54 C1	1706245 175	FMCD 1,5/ 6-ST-3,5	1738843 201	FRONT-GMSTB 2,5/ 9-ST-7,62	1806180 335	FRONT-MSTB 2,5/12-STF	1779741 269
FMC 0,5/16-ST-2,54 C2	1706226 175	FMCD 1,5/ 7-ST-3,5	1738856 201	FRONT-GMSTB 2,5/ 9-STF-7,62	1806070 335	FRONT-MSTB 2,5/12-STF-5,08	1777895 269
FMC 1,5/ 2-ST-3,5	1952267 200	FMCD 1,5/8-ST-3,5	1738869 201	FRONT-GMSTB 2,5/10-ST-7,62	1806193 335	FRONT-MSTB 2,5/13-ST	1779521 269
FMC 1,5/ 2-ST-3,5-RF	1952021 201	FMCD 1,5/9-ST-3,5	1738872 201	FRONT-GMSTB 2,5/10-STF-7,62	1806083 335	FRONT-MSTB 2,5/13-ST-5,08	1777390 269
FMC 1,5/ 2-ST-3,81	1745894 200	FMCD 1,5/10-ST-3,5	1738885 201	FRONT-GMSTB 2,5/11-ST-7,62	1806203 335	FRONT-MSTB 2,5/13-STF	1779754 269
FMC 1,5/ 2-STF-3,5	1966091 201	FMCD 1,5/11-ST-3,5	1738898 201	FRONT-GMSTB 2,5/11-STF-7,62	1806096 335	FRONT-MSTB 2,5/13-STF-5,08	1777905 269
FMC 1,5/ 2-STF-3,81	1748354 201	FMCD 1,5/12-ST-3,5	1738908 201	FRONT-GMSTB 2,5/12-ST-7,62	1806216 335	FRONT-MSTB 2,5/14-ST	1779534 269
FMC 1,5/ 3-ST-3,5	1952270 200	FMCD 1,5/13-ST-3,5	1738911 201	FRONT-GMSTB 2,5/12-STF-7,62	1806106 335	FRONT-MSTB 2,5/14-ST-5,08	1777400 269
FMC 1,5/ 3-ST-3,5-RF	1952034 201	FMCD 1,5/14-ST-3,5	1738924 201	FRONT-MC 1,5/ 2-ST-3,81	1850660 194	FRONT-MSTB 2,5/14-STF	1779767 269
FMC 1,5/ 3-ST-3,81	1745904 200	FMCD 1,5/15-ST-3,5	1738937 201	FRONT-MC 1,5/ 2-STF-3,81	1850851 195	FRONT-MSTB 2,5/14-STF-5,08	1777918 269
FMC 1,5/ 3-STF-3,5	1966101 201	FMCD 1,5/16-ST-3,5	1738940 201	FRONT-MC 1,5/ 3-ST-3,81	1850673 194	FRONT-MSTB 2,5/15-ST	1779547 269
FMC 1,5/ 3-STF-3,81	1748367 201	FOPT 2,2-R	1907924 436	FRONT-MC 1,5/ 3-STF-3,81	1850864 195	FRONT-MSTB 2,5/15-ST-5,08	1777413 269
FMC 1,5/ 4-ST-3,5	1952283 200	FOPT 2,2-T	1907911 437	FRONT-MC 1,5/ 4-ST-3,81	1850686 194	FRONT-MSTB 2,5/15-STF	1779770 269
FMC 1,5/ 4-ST-3,5-RF	1952047 201	FRONT 2,5-H/SA 5	1700008 738	FRONT-MC 1,5/ 4-STF-3,81	1850877 195	FRONT-MSTB 2,5/15-STF-5,08	1777921 269
FMC 1,5/ 4-ST-3,81	1745917 200	FRONT 2,5-H/SA 5-EX	1701159 158	FRONT-MC 1,5/ 5-ST-3,81	1850699 194	FRONT-MSTB 2,5/16-ST	1779550 269
FMC 1,5/ 4-STF-3,5	1966114 201	FRONT 2,5-H/SA 5/ 2	1868665 114	FRONT-MC 1,5/ 5-STF-3,81	1850880 195	FRONT-MSTB 2,5/16-ST-5,08	1777426 269
FMC 1,5/ 4-STF-3,81	1748370 201	FRONT 2,5-H/SA 5/ 3	1700121 114	FRONT-MC 1,5/ 6-ST-3,81	1850709 194	FRONT-MSTB 2,5/16-STF	1779783 269
FMC 1,5/ 5-ST-3,5	1952296 200	FRONT 2,5-H/SA 5/ 4	1700781 114	FRONT-MC 1,5/ 6-STF-3,81	1850893 195	FRONT-MSTB 2,5/16-STF-5,08	1777934 269
FMC 1,5/ 5-ST-3,5-RF	1952050 201	FRONT 2,5-H/SA 5/ 5	1724660 114	FRONT-MC 1,5/ 7-ST-3,81	1850712 194	FRONT-SFL 2,5/D32	2285593 790
FMC 1,5/ 5-ST-3,81	1745920 200	FRONT 2,5-H/SA 5/ 6	1891975 114	FRONT-MC 1,5/ 7-STF-3,81	1850903 195	FRONT-SFL 2,5/F32/ZB	2285577 791
FMC 1,5/ 5-STF-3,5	1966127 201	FRONT 2,5-H/SA 5/ 7	1988257 114	FRONT-MC 1,5/ 8-ST-3,81	1850725 194	FRONT-SFL 2,5/F32/ZD	2285580 791
FMC 1,5/ 5-STF-3,81	1748383 201	FRONT 2,5-H/SA 5/ 8	1724673 114	FRONT-MC 1,5/ 8-STF-3,81	1850916 195	FRONT-SFL 2,5/F48	2285603 791
FMC 1,5/ 6-ST-3,5 FMC 1,5/ 6-ST-3,5-RF FMC 1,5/ 6-ST-3,81 FMC 1,5/ 6-STF-3,5	1952306 200 1952063 201 1748011 200 1966130 201	FRONT 2,5-H/SA 5/ 9 FRONT 2,5-H/SA 5/10 FRONT 2,5-H/SA 5/11 FRONT 2,5-H/SA 5/12	1744109 114 1773264 114 1701382 114 1892893 114	FRONT-MC 1,5/ 9-ST-3,81 FRONT-MC 1,5/ 9-STF-3,81 FRONT-MC 1,5/10-ST-3,81 FRONT-MC 1,5/10-STF-3,81	1850738 194 1850929 195 1850741 194 1850932 195	FRONT-ZFL 1,5/D32	2201632 789
FMC 1,5/ 6-STF-3,81 FMC 1,5/ 7-ST-3,5 FMC 1,5/ 7-ST-3,5-RF FMC 1,5/ 7-ST-3,81	1748396 201 1952319 200 1952076 201 1748024 200	FRONT 2,5-H/SA10-EX FRONT 2,5-H/SA10/ 2 FRONT 2,5-H/SA10/ 3 FRONT 2,5-H/SA10/ 4	1700325 159 1724657 115 1904215 115 1773170 115	FRONT-MC 1,5/11-ST-3,81 FRONT-MC 1,5/11-STF-3,81 FRONT-MC 1,5/12-ST-3,81 FRONT-MC 1,5/12-STF-3,81	1850754 194 1850945 195 1850767 194 1850958 195	G	
FMC 1,5/ 7-STF-3,5	1966143 201	FRONT 2,5-H/SA10/ 5	1773183 115	FRONT-MC 1,5/13-ST-3,81	1850770 194	GFKC 2,5/ 2-ST-7,5	1939413 340
FMC 1,5/ 7-STF-3,81	1748406 201	FRONT 2,5-H/SA10/ 6	1773196 115	FRONT-MC 1,5/13-STF-3,81	1850961 195	GFKC 2,5/ 2-ST-7,62	1939633 340
FMC 1,5/ 8-ST-3,5	1952322 200	FRONT 2,5-H/SA10/ 7	1773206 115	FRONT-MC 1,5/14-ST-3,81	1850783 194	GFKC 2,5/ 2-STF-7,62	1939743 341
FMC 1,5/ 8-ST-3,5-RF	1952089 201	FRONT 2,5-H/SA10/ 8	1773219 115	FRONT-MC 1,5/14-STF-3,81	1850974 195	GFKC 2,5/ 2-STF-7,62 EX	1796212 381
FMC 1,5/ 8-ST-3,81	1748037 200	FRONT 2,5-H/SA10/ 9	1773222 115	FRONT-MC 1,5/15-ST-3,81	1850796 194	GFKC 2,5/3-ST-7,5	1939426 340
FMC 1,5/ 8-STF-3,5	1966156 201	FRONT 2,5-H/SA10/10	1773235 115	FRONT-MC 1,5/15-STF-3,81	1850987 195	GFKC 2,5/3-ST-7,62	1939646 340
FMC 1,5/ 8-STF-3,81	1748419 201	FRONT 2,5-H/SA10/11	1773248 115	FRONT-MC 1,5/16-ST-3,81	1850806 194	GFKC 2,5/3-STF-7,62	1939756 341
FMC 1,5/ 9-ST-3,5	1952335 200	FRONT 2,5-H/SA10/12	1773251 115	FRONT-MC 1,5/16-STF-3,81	1850990 195	GFKC 2,5/3-STF-7,62 EX	1796225 381
FMC 1,5/ 9-ST-3,5-RF	1952092 201	FRONT 2,5-V/SA 5-EX	1701162 159	FRONT-MSTB 2,5/ 2-ST	1779411 269	GFKC 2,5/ 4-ST-7,5	1939439 340
FMC 1,5/ 9-ST-3,81	1748040 200	FRONT 2,5-V/SA 5/ 2	1700244 115	FRONT-MSTB 2,5/ 2-ST-5,08	1777280 269	GFKC 2,5/ 4-ST-7,62	1939659 340
FMC 1,5/ 9-STF-3,5	1966169 201	FRONT 2,5-V/SA 5/ 3	1700134 115	FRONT-MSTB 2,5/ 2-STF	1779644 269	GFKC 2,5/ 4-STF-7,62	1939769 341
FMC 1,5/ 9-STF-3,81	1748422 201	FRONT 2,5-V/SA 5/ 4	1888250 115	FRONT-MSTB 2,5/ 2-STF-5,08	1777808 269	GFKC 2,5/ 4-STF-7,62 EX	1796238 381
FMC 1,5/10-ST-3,5	1952348 200	FRONT 2,5-V/SA 5/ 5	1700354 115	FRONT-MSTB 2,5/ 3-ST	1779424 269	GFKC 2,5/5-ST-7,5	1939442 340
FMC 1,5/10-ST-3,5-RF	1952102 201	FRONT 2,5-V/SA 5/ 6	1700231 115	FRONT-MSTB 2,5/ 3-ST-5,08	1777293 269	GFKC 2,5/5-ST-7,62	1939662 340
FMC 1,5/10-ST-3,81	1748053 200	FRONT 2,5-V/SA 5/ 7	1724152 115	FRONT-MSTB 2,5/ 3-STF	1779657 269	GFKC 2,5/5-STF-7,62	1939772 341
FMC 1,5/10-STF-3,5	1966172 201	FRONT 2,5-V/SA 5/ 8	1700710 115	FRONT-MSTB 2,5/ 3-STF-5,08	1777811 269	GFKC 2,5/5-STF-7,62 EX	1796241 381
FMC 1,5/10-STF-3,81	1748435 201	FRONT 2,5-V/SA 5/ 9	1724165 115	FRONT-MSTB 2,5/ 4-ST	1779437 269	GFKC 2,5/6-ST-7,5	1939455 340
FMC 1,5/11-ST-3,5	1952351 200	FRONT 2,5-V/SA 5/10	1700765 115	FRONT-MSTB 2,5/ 4-ST-5,08	1777303 269	GFKC 2,5/6-ST-7,62	1939675 340
FMC 1,5/11-ST-3,5-RF	1952115 201	FRONT 2,5-V/SA 5/11	1700118 115	FRONT-MSTB 2,5/ 4-STF	1779660 269	GFKC 2,5/6-STF-7,62	1939785 341
FMC 1,5/11-ST-3,81	1748066 200	FRONT 2,5-V/SA 5/12	1889974 115	FRONT-MSTB 2,5/ 4-STF-5,08	1777824 269	GFKC 2,5/6-STF-7,62 EX	1796254 381
FMC 1,5/11-STF-3,5	1966185 201	FRONT 2,5-V/SA10-EX	1700309 159	FRONT-MSTB 2,5/5-ST	1779440 269	GFKC 2,5/7-ST-7,5	1939468 340
FMC 1,5/11-STF-3,81	1748448 201	FRONT 2,5-V/SA10/ 2	1704114 115	FRONT-MSTB 2,5/5-ST-5,08	1777316 269	GFKC 2,5/7-ST-7,62	1939688 340
FMC 1,5/12-ST-3,5	1952364 200	FRONT 2,5-V/SA10/ 3	1704897 115	FRONT-MSTB 2,5/5-STF	1779673 269	GFKC 2,5/7-STF-7,62	1939798 341
FMC 1,5/12-ST-3,5-RF	1952128 201	FRONT 2,5-V/SA10/ 4	1732238 115	FRONT-MSTB 2,5/5-STF-5,08	1777837 269	GFKC 2,5/7-STF-7,62 EX	1796267 381
FMC 1,5/12-ST-3,81	1748079 200	FRONT 2,5-V/SA10/ 5	1773277 115	FRONT-MSTB 2,5/6-ST	1779453 269	GFKC 2,5/ 8-ST-7,5	1939471 340
FMC 1,5/12-STF-3,5	1966198 201	FRONT 2,5-V/SA10/ 6	1701230 115	FRONT-MSTB 2,5/6-ST-5,08	1777329 269	GFKC 2,5/ 8-ST-7,62	1939691 340
FMC 1,5/12-STF-3,81	1748451 201	FRONT 2,5-V/SA10/ 7	1773280 115	FRONT-MSTB 2,5/6-STF	1779686 269	GFKC 2,5/ 8-STF-7,62	1939808 341
FMC 1,5/13-ST-3,5	1952377 200	FRONT 2,5-V/SA10/ 8	1704127 115	FRONT-MSTB 2,5/6-STF-5,08	1777840 269	GFKC 2,5/ 8-STF-7,62 EX	1796270 381

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GFKC 2,5/9-ST-7,5	1939484 340	GIC 2,5/8-GF-7,62	1859043 347	GMKDSP 3/3-7,62	1732733 123	GMSTB 2,5/9-GF-7,62	1806290 343
GFKC 2,5/9-ST-7,62	1939701 340	GIC 2,5/8-ST-7,62	1828867 338	GMSTB 2,5 HCV/2-ST-7,62	1714278 502	GMSTB 2,5/9-GF-7,62 EX	1795954 383
GFKC 2,5/9-STF-7,62	1939811 341	GIC 2,5/8-STF-7,62	1858934 339	GMSTB 2,5 HCV/2-ST-7,62-LR	1812759 503	GMSTB 2,5/9-ST	1766958 334
GFKC 2,5/9-STF-7,62 EX	1796283 381	GIC 2,5/8-STGF-7,62	1849943 339	GMSTB 2,5 HCV/3-ST-7,62	1714281 502	GMSTB 2,5/9-ST-7,62	1767070 334
GFKC 2,5/10-ST-7,5	1939497 340	GIC 2,5/9-G-7,62	1828744 346	GMSTB 2,5 HCV/ 3-ST-7,62-LR	1812762 503	GMSTB 2,5/9-STF-7,62	1858837 335
GFKC 2,5/10-ST-7,62	1939714 340	GIC 2,5/9-GF-7,62	1859056 347	GMSTB 2,5 HCV/ 4-ST-7,62	1714294 502	GMSTB 2,5/9-STF-7,62 EX	1795844 379
GFKC 2,5/10-STF-7,62	1939824 341	GIC 2,5/9-ST-7,62	1828870 338	GMSTB 2,5 HCV/ 4-ST-7,62-LR	1812775 503	GMSTB 2,5/10-G	1766097 342
GFKC 2,5/10-STF-7,62 EX	1796296 381	GIC 2,5/9-STF-7,62	1858947 339	GMSTB 2,5 HCV/ 5-ST-7,62	1714304 502	GMSTB 2,5/10-G-7,62	1766204 342
GFKC 2,5/11-ST-7,5	1939507 340	GIC 2,5/9-STGF-7,62	1849956 339	GMSTB 2,5 HCV/ 5-ST-7,62-LR	1812788 503	GMSTB 2,5/10-GF-7,62	1806300 343
GFKC 2,5/11-ST-7,62	1939727 340	GIC 2,5/10-G-7,62	1828757 346	GMSTB 2,5 HCV/ 6-ST-7,62	1714317 502	GMSTB 2,5/10-GF-7,62 EX	1795967 383
GFKC 2,5/11-STF-7,62	1939837 341	GIC 2,5/10-GF-7,62	1859069 347	GMSTB 2,5 HCV/ 6-ST-7,62-LR	1812791 503	GMSTB 2,5/10-ST	1766961 334
GFKC 2,5/11-STF-7,62 EX	1796306 381	GIC 2,5/10-ST-7,62	1828883 338	GMSTB 2,5 HCV/ 7-ST-7,62	1714320 502	GMSTB 2,5/10-ST-7,62	1767083 334
GFKC 2,5/12-ST-7,5	1939510 340	GIC 2,5/10-STF-7,62	1858950 339	GMSTB 2,5 HCV/ 7-ST-7,62-LR	1812801 503	GMSTB 2,5/10-STF-7,62	1858840 335
GFKC 2,5/12-ST-7,62	1939730 340	GIC 2,5/10-STGF-7,62	1849969 339	GMSTB 2,5 HCV/ 8-ST-7,62	1714333 502	GMSTB 2,5/10-STF-7,62 EX	1795857 379
GFKC 2,5/12-STF-7,62	1939840 341	GIC 2,5/11-G-7,62	1828760 346	GMSTB 2,5 HCV/ 8-ST-7,62-LR	1812814 503	GMSTB 2,5/11-G	1766107 342
GFKC 2,5/12-STF-7,62 EX	1796319 381	GIC 2,5/11-GF-7,62	1859072 347	GMSTB 2,5 HCV/ 9-ST-7,62	1714346 502	GMSTB 2,5/11-G-7,62	1766217 342
GFKIC 2,5/ 2-ST-7,62	1761603 341	GIC 2,5/11-ST-7,62	1828896 338	GMSTB 2,5 HCV/10-ST-7,62	1714359 502	GMSTB 2,5/11-GF-7,62	1806313 343
GFKIC 2,5/ 3-ST-7,62	1761616 341	GIC 2,5/11-STF-7,62	1858963 339	GMSTB 2,5 HCV/10-ST-7,62-LR	1812830 503	GMSTB 2,5/11-GF-7,62 EX	1795970 383
GFKIC 2,5/ 4-ST-7,62	1761629 341	GIC 2,5/11-STGF-7,62	1849972 339	GMSTB 2,5 HCV/11-ST-7,62	1714362 502	GMSTB 2,5/11-ST	1766974 334
GFKIC 2,5/ 5-ST-7,62	1761632 341	GIC 2,5/12-G-7,62	1828773 346	GMSTB 2,5 HCV/11-ST-7,62-LR	1812843 503	GMSTB 2,5/11-ST-7,62	1767096 334
GFKIC 2,5/ 6-ST-7,62	1761645 341	GIC 2,5/12-GF-7,62	1859085 347	GMSTB 2,5 HCV/12-ST-7,62	1714375 502	GMSTB 2,5/11-STF-7,62	1858853 335
GFKIC 2,5/ 7-ST-7,62	1761658 341	GIC 2,5/12-ST-7,62	1828906 338	GMSTB 2,5 HCV/12-ST-7,62-LR	1812856 503	GMSTB 2,5/11-STF-7,62 EX	1795860 379
GFKIC 2,5/ 8-ST-7,62	1761661 341	GIC 2,5/12-STF-7,62	1858976 339	GMSTB 2,5/ 2-G	1766013 342	GMSTB 2,5/12-G	1766110 342
GFKIC 2,5/ 9-ST-7,62	1761674 341	GIC 2,5/12-STGF-7,62	1849985 339	GMSTB 2,5/ 2-G-7,62	1766123 342	GMSTB 2,5/12-G-7,62	1766220 342
GFKIC 2,5/10-ST-7,62	1761687 341	GICV 2,5 HC/ 2-G-7,62	1756485 507	GMSTB 2,5/ 2-GF-7,62	1806229 343	GMSTB 2,5/12-GF-7,62	1806326 343
GFKIC 2,5/11-ST-7,62	1761690 341	GICV 2,5 HC/ 3-G-7,62	1756498 507	GMSTB 2,5/ 2-GF-7,62 EX	1795886 383	GMSTB 2,5/12-GF-7,62 EX	1795983 383
GFKIC 2,5/12-ST-7,62	1761700 341	GICV 2,5 HC/ 4-G-7,62	1756508 507	GMSTB 2,5/ 2-ST	1766880 334	GMSTB 2,5/12-ST	1766987 334
GIC 2,5 HC/ 2-G-7,62	1745784 506	GICV 2,5 HC/ 5-G-7,62	1756511 507	GMSTB 2,5/ 2-ST-7,62	1766990 334	GMSTB 2,5/12-ST-7,62	1767106 334
GIC 2,5 HC/ 3-G-7,62	1745797 506	GICV 2,5 HC/ 6-G-7,62	1756524 507	GMSTB 2,5/ 2-STF-7,62	1858769 335	GMSTB 2,5/12-STF-7,62	1858866 335
GIC 2,5 HC/ 4-G-7,62	1745807 506	GICV 2,5 HC/ 7-G-7,62	1756537 507	GMSTB 2,5/ 2-STF-7,62 EX	1795776 379	GMSTB 2,5/12-STF-7,62 EX	1795873 379
GIC 2,5 HC/ 5-G-7,62	1745810 506	GICV 2,5 HC/ 8-G-7,62	1756540 507	GMSTB 2,5/ 3-G	1766026 342	GMSTBA 2,5 HC/ 2-G-7,62	1728853 504
GIC 2,5 HC/ 6-G-7,62	1745823 506	GICV 2,5 HC/ 9-G-7,62	1756553 507	GMSTB 2,5/ 3-G-7,62	1766136 342	GMSTBA 2,5 HC/ 2-G-7,62-LR	1812869 505
GIC 2,5 HC/7-G-7,62	1745836 506	GICV 2,5 HC/10-G-7,62	1756566 507	GMSTB 2,5/3-GF-7,62	1806232 343	GMSTBA 2,5 HC/ 3-G-7,62	1728866 504
GIC 2,5 HC/8-G-7,62	1745849 506	GICV 2,5 HC/11-G-7,62	1756579 507	GMSTB 2,5/3-GF-7,62 EX	1795899 383	GMSTBA 2,5 HC/ 3-G-7,62-LR	1812872 505
GIC 2,5 HC/9-G-7,62	1745852 506	GICV 2,5 HC/12-G-7,62	1756582 507	GMSTB 2,5/3-ST	1766893 334	GMSTBA 2,5 HC/ 4-G-7,62	1728879 504
GIC 2,5 HC/10-G-7,62	1745865 506	GICV 2,5/2-G-7,62	1828919 347	GMSTB 2,5/3-ST-7,62	1767012 334	GMSTBA 2,5 HC/ 4-G-7,62-LR	1812885 505
GIC 2,5 HC/11-G-7,62	1745878 506	GICV 2,5/2-GF-7,62	1859098 347	GMSTB 2,5/ 3-STF-7,62	1858772 335	GMSTBA 2,5 HC/ 5-G-7,62	1728882 504
GIC 2,5 HC/12-G-7,62	1745881 506	GICV 2,5/3-G-7,62	1828922 347	GMSTB 2,5/ 3-STF-7,62 EX	1795789 379	GMSTBA 2,5 HC/ 5-G-7,62-LR	1812898 505
GIC 2,5 HCV/ 2-ST-7,62	1745629 503	GICV 2,5/3-GF-7,62	1859108 347	GMSTB 2,5/ 4-G	1766039 342	GMSTBA 2,5 HC/ 6-G-7,62	1728895 504
GIC 2,5 HCV/ 3-ST-7,62	1745632 503	GICV 2,5/4-G-7,62	1828935 347	GMSTB 2,5/ 4-G-7,62	1766149 342	GMSTBA 2,5 HC/ 6-G-7,62-LR	1812908 505
GIC 2,5 HCV/ 4-ST-7,62	1745645 503	GICV 2,5/ 4-GF-7,62	1859111 347	GMSTB 2,5/ 4-GF-7,62	1806245 343	GMSTBA 2,5 HC/ 7-G-7,62	1728905 504
GIC 2,5 HCV/ 5-ST-7,62	1745658 503	GICV 2,5/ 5-G-7,62	1828948 347	GMSTB 2,5/ 4-GF-7,62 EX	1795909 383	GMSTBA 2,5 HC/ 7-G-7,62-LR	1812911 505
GIC 2,5 HCV/ 6-ST-7,62	1745661 503	GICV 2,5/ 5-GF-7,62	1859124 347	GMSTB 2,5/ 4-ST	1766903 334	GMSTBA 2,5 HC/ 8-G-7,62	1728918 504
GIC 2,5 HCV/ 7-ST-7,62	1745674 503	GICV 2,5/ 6-G-7,62	1828951 347	GMSTB 2,5/ 4-ST-7,62	1767025 334	GMSTBA 2,5 HC/ 8-G-7,62-LR	1812924 505
GIC 2,5 HCV/ 8-ST-7,62	1745687 503	GICV 2,5/6-GF-7,62	1859137 347	GMSTB 2,5/ 4-STF-7,62	1858785 335	GMSTBA 2,5 HC/ 9-G-7,62	1728921 504
GIC 2,5 HCV/ 9-ST-7,62	1745690 503	GICV 2,5/7-G-7,62	1828964 347	GMSTB 2,5/ 4-STF-7,62 EX	1795792 379	GMSTBA 2,5 HC/ 9-G-7,62-LR	1812937 505
GIC 2,5 HCV/10-ST-7,62	1745700 503	GICV 2,5/7-GF-7,62	1859140 347	GMSTB 2,5/ 5-G	1766042 342	GMSTBA 2,5 HC/10-G-7,62	1728934 504
GIC 2,5 HCV/11-ST-7,62	1745713 503	GICV 2,5/8-G-7,62	1828977 347	GMSTB 2,5/ 5-G-7,62	1766152 342	GMSTBA 2,5 HC/10-G-7,62-LR	1812940 505
GIC 2,5 HCV/12-ST-7,62	1745726 503	GICV 2,5/8-GF-7,62	1859153 347	GMSTB 2,5/5-GF-7,62	1806258 343	GMSTBA 2,5 HC/11-G-7,62	1728947 504
GIC 2,5/ 2-G-7,62	1828676 346	GICV 2,5/9-G-7,62	1828980 347	GMSTB 2,5/5-GF-7,62 EX	1795912 383	GMSTBA 2,5 HC/11-G-7,62-LR	1812953 505
GIC 2,5/ 2-GF-7,62	1858989 347	GICV 2,5/9-GF-7,62	1859166 347	GMSTB 2,5/5-ST	1766916 334	GMSTBA 2,5 HC/12-G-7,62	1728950 504
GIC 2,5/ 2-ST-7,62	1828809 338	GICV 2,5/10-G-7,62	1828993 347	GMSTB 2,5/5-ST-7,62	1767038 334	GMSTBA 2,5 HC/12-G-7,62-LR	1812966 505
GIC 2,5/2-STF-7,62	1858879 339	GICV 2,5/10-GF-7,62	1859179 347	GMSTB 2,5/5-STF-7,62	1858798 335	GMSTBA 2,5/ 2-G	1766343 343
GIC 2,5/2-STGF-7,62	1849888 339	GICV 2,5/11-G-7,62	1829002 347	GMSTB 2,5/5-STF-7,62 EX	1795802 379	GMSTBA 2,5/ 2-G-7,62	1766233 343
GIC 2,5/3-G-7,62	1828689 346	GICV 2,5/11-GF-7,62	1859182 347	GMSTB 2,5/6-G	1766055 342	GMSTBA 2,5/ 3-G	1766356 343
GIC 2,5/3-GF-7,62	1858992 347	GICV 2,5/12-G-7,62	1829015 347	GMSTB 2,5/6-G-7,62	1766165 342	GMSTBA 2,5/ 3-G-7,62	1766246 343
GIC 2,5/3-ST-7,62	1828812 338	GICV 2,5/12-GF-7,62	1859195 347	GMSTB 2,5/ 6-GF-7,62	1806261 343	GMSTBA 2,5/ 4-G	1766369 343
GIC 2,5/3-STF-7,62	1858882 339	GMKDS 1,5/2	1717020 121	GMSTB 2,5/ 6-GF-7,62 EX	1795925 383	GMSTBA 2,5/ 4-G-7,62	1766259 343
GIC 2,5/3-STGF-7,62	1849891 339	GMKDS 1,5/2-7,62	1717729 121	GMSTB 2,5/ 6-ST	1766929 334	GMSTBA 2,5/ 5-G	1766372 343
GIC 2,5/4-G-7,62	1828692 346	GMKDS 1,5/3	1717033 121	GMSTB 2,5/ 6-ST-7,62	1767041 334	GMSTBA 2,5/ 5-G-7,62	1766262 343
GIC 2,5/ 4-GF-7,62	1859001 347	GMKDS 1,5/ 3-7,62	1717732 121	GMSTB 2,5/ 6-STF-7,62	1858808 335	GMSTBA 2,5/ 6-G	1766385 343
GIC 2,5/ 4-ST-7,62	1828825 338	GMKDS 3/ 2	1731022 123	GMSTB 2,5/ 6-STF-7,62 EX	1795815 379	GMSTBA 2,5/ 6-G-7,62	1766275 343
GIC 2,5/ 4-STF-7,62	1858895 339	GMKDS 3/ 2-7,62	1731721 123	GMSTB 2,5/ 7-G	1766068 342	GMSTBA 2,5/ 7-G	1766398 343
GIC 2,5/ 4-STGF-7,62	1849901 339	GMKDS 3/ 2-EMG15	1731462 709	GMSTB 2,5/ 7-G-7,62	1766178 342	GMSTBA 2,5/ 7-G-7,62	1766288 343
GIC 2,5/5-G-7,62	1828702 346	GMKDS 3/ 3	1731035 123	GMSTB 2,5/ 7-GF-7,62	1806274 343	GMSTBA 2,5/ 8-G	1766408 343
GIC 2,5/5-GF-7,62	1859014 347	GMKDS 3/ 3-7,62	1731734 123	GMSTB 2,5/ 7-GF-7,62 EX	1795938 383	GMSTBA 2,5/ 8-G-7,62	1766291 343
GIC 2,5/5-ST-7,62	1828838 338	GMKDSN 1,5/ 2-7,62	1707027 119	GMSTB 2,5/ 7-ST	1766932 334	GMSTBA 2,5/ 9-G	1766411 343
GIC 2,5/5-STF-7,62	1858905 339	GMKDSN 1,5/ 3-7,62	1707030 119	GMSTB 2,5/ 7-ST-7,62	1767054 334	GMSTBA 2,5/ 9-G-7,62	1766301 343
GIC 2,5/5-STGF-7,62	1849914 339	GMKDSN 1,5/4-7,62	1707043 119	GMSTB 2,5/ 7-STF-7,62	1858811 335	GMSTBA 2,5/10-G	1766424 343
GIC 2,5/6-G-7,62	1828715 346	GMKDSN 1,5/5-7,62	1707056 119	GMSTB 2,5/ 7-STF-7,62 EX	1795828 379	GMSTBA 2,5/10-G-7,62	1766314 343
GIC 2,5/6-GF-7,62	1859027 347	GMKDSN 1,5/6-7,62	1707069 119	GMSTB 2,5/ 8-G	1766071 342	GMSTBA 2,5/11-G	1766437 343
GIC 2,5/6-ST-7,62	1828841 338	GMKDSN 1,5/7-7,62	1707072 119	GMSTB 2,5/ 8-G-7,62	1766181 342	GMSTBA 2,5/11-G-7,62	1766327 343
GIC 2,5/6-STF-7,62	1858918 339	GMKDSN 1,5/ 8-7,62	1707085 119	GMSTB 2,5/ 8-GF-7,62	1806287 343	GMSTBA 2,5/12-G	1766440 343
GIC 2,5/6-STGF-7,62	1849927 339	GMKDSN 1,5/ 9-7,62	1707108 119	GMSTB 2,5/ 8-GF-7,62 EX	1795941 383	GMSTBA 2,5/12-G-7,62	1766330 343
GIC 2,5/7-G-7,62	1828728 346	GMKDSN 1,5/10-7,62	1707111 119	GMSTB 2,5/ 8-ST	1766945 334	GMSTBO 2,5 HV/ 2-GL-7,25 THR	2199867 510
GIC 2,5/7-GF-7,62	1859030 347	GMKDSN 1,5/11-7,62	1707124 119	GMSTB 2,5/ 8-ST-7,62	1767067 334	GMSTBO 2,5 HV/ 2-GL-7,25THRR32	2279703 511
GIC 2,5/7-ST-7,62	1828854 338	GMKDSN 1,5/12-7,62	1707137 119	GMSTB 2,5/8-STF-7,62	1858824 335	GMSTBO 2,5 HV/ 2-GR-7,25 THR	2199760 511
GIC 2,5/7-STF-7,62	1858921 339	GMKDSP 3/ 2	1732021 123	GMSTB 2,5/8-STF-7,62 EX	1795831 379	GMSTBO 2,5 HV/ 2-GR-7,25THRR3;	2 2279606 511
GIC 2,5/7-STGF-7,62	1849930 339	GMKDSP 3/ 2-7,62	1732720 123	GMSTB 2,5/9-G	1766084 342	GMSTBO 2,5 HV/ 3-GL-7,25 THR	2199663 510
GIC 2,5/8-G-7,62	1828731 346	GMKDSP 3/ 3	1732034 123	GMSTB 2,5/9-G-7,62	1766194 342	GMSTBO 2,5 HV/ 3-GR-7,25 THR	2199566 511

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GMSTBO 2,5 HV/3-GL-7,25 THRR4 GMSTBO 2,5 HV/3-GR-7,25 THRR4 GMSTBT 2,5 HV/2-ST-7,25 GY7035 GMSTBT 2,5 HV/3-ST-7,25 GY7035	14 2200262 511 2199757 508	GMSTBVA 2,5/ 7-G GMSTBVA 2,5/ 7-G-7,62 GMSTBVA 2,5/ 8-G GMSTBVA 2,5/ 8-G-7,62	1766712 345 1766822 345 1766725 345 1766835 345	GMVSTBW 2,5/6-STF-7,62 GMVSTBW 2,5/6-STF-7,62 EX GMVSTBW 2,5/7-ST GMVSTBW 2,5/7-ST-7,62	1848038 337 1810049 379 1737864 337 1832468 337	HC-ALU 6-53,5 COVER GY HC-ALU 6-53,5 DKL-COVER GY HC-ALU 6-53,5 PROFILE 100 HC-ALU 6-53,5 PROFILE 1000	2200891 768 2201121 768 2200887 768 2200890 768
GMSTBV 2,5/2-G	1766453 344	GMSTBVA 2,5/9-G	1766738 345	GMVSTBW 2,5/7-STF-7,62	1848041 337	HC-ALU 6-53,5 PROFILE 150	2200888 768
GMSTBV 2,5/2-G-7,62	1766563 344	GMSTBVA 2,5/9-G-7,62	1766848 345	GMVSTBW 2,5/7-STF-7,62 EX	1810052 379	HC-ALU 6-53,5 PROFILE 200	2200889 768
GMSTBV 2,5/2-GF-7,62	1829154 345	GMSTBVA 2,5/10-G	1766741 345	GMVSTBW 2,5/8-ST	1737877 337	HC-ALU 6-53,5 SEAL EMC	2200907 768
GMSTBV 2,5/2-GF-7,62 EX	1796665 383	GMSTBVA 2,5/10-G-7,62	1766851 345	GMVSTBW 2,5/8-ST-7,62	1832471 337	HC-ALU 6-78 COVER GY	2200896 768
GMSTBV 2,5/3-G	1766466 344	GMSTBVA 2,5/11-G	1766754 345	GMVSTBW 2,5/8-STF-7,62	1848054 337	HC-ALU 6-78 DKL-COVER GY	2201122 768
GMSTBV 2,5/3-G-7,62	1766576 344	GMSTBVA 2,5/11-G-7,62	1766864 345	GMVSTBW 2,5/8-STF-7,62 EX	1810065 379	HC-ALU 6-78 PROFILE 100	2200892 768
GMSTBV 2,5/3-GF-7,62	1829167 345	GMSTBVA 2,5/12-G	1766767 345	GMVSTBW 2,5/9-ST	1737880 337	HC-ALU 6-78 PROFILE 1000	2200895 768
GMSTBV 2,5/3-GF-7,62 EX	1796678 383	GMSTBVA 2,5/12-G-7,62	1766877 345	GMVSTBW 2,5/9-ST-7,62	1832484 337	HC-ALU 6-78 PROFILE 150	2200893 768
GMSTBV 2,5/4-G	1766479 344	GMVSTBR 2,5 HV/ 2-ST-7,62	1774454 500	GMVSTBW 2,5/9-STF-7,62	1848067 337	HC-ALU 6-78 PROFILE 200	2200894 768
GMSTBV 2,5/4-G-7,62	1766589 344	GMVSTBR 2,5 HV/ 3-ST-7,62	1993954 500	GMVSTBW 2,5/9-STF-7,62 EX	1810078 379	HC-ALU 6-78 SEAL EMC	2200908 768
GMSTBV 2,5/4-GF-7,62	1829170 345	GMVSTBR 2,5 HV/ 4-ST-7,62	1774467 500	GMVSTBW 2,5/10-ST	1737893 337	HDFK 95-F/Z	0714037 621
GMSTBV 2,5/4-GF-7,62 EX	1796681 383	GMVSTBR 2,5/ 2-ST	1737709 336	GMVSTBW 2,5/10-ST-7,62	1832497 337	HDFK 50	0708739 617
GMSTBV 2,5/5-G	1766482 344	GMVSTBR 2,5/ 2-ST-7,62	1832523 336	GMVSTBW 2,5/10-STF-7,62	1848070 337	HDFK 50-VP	0709123 619
GMSTBV 2,5/5-G-7,62	1766592 344	GMVSTBR 2,5/ 2-STF-7,62	1847880 337	GMVSTBW 2,5/10-STF-7,62 EX	1810081 379	HDFK 50-VP/Z	0711218 619
GMSTBV 2,5/5-GF-7,62	1829183 345	GMVSTBR 2,5/ 2-STF-7,62 EX	1809898 379	GMVSTBW 2,5/11-ST	1737903 337	HDFK 50/Z	0705017 617
GMSTBV 2,5/5-GF-7,62 EX	1796694 383	GMVSTBR 2,5/ 3-ST	1737712 336	GMVSTBW 2,5/11-ST-7,62	1832507 337	HDFK 95	0709534 620
GMSTBV 2,5/6-G	1766495 344	GMVSTBR 2,5/ 3-ST-7,62	1832536 336	GMVSTBW 2,5/11-STF-7,62	1848083 337	HDFK 95-F	0709644 621
GMSTBV 2,5/6-G-7,62	1766602 344	GMVSTBR 2,5/ 3-STF-7,62	1847893 337	GMVSTBW 2,5/11-STF-7,62 EX	1810094 379	HDFK 95-F-VP	0709916 619
GMSTBV 2,5/6-GF-7,62	1829196 345	GMVSTBR 2,5/ 3-STF-7,62 EX	1809908 379	GMVSTBW 2,5/12-ST	1737916 337	HDFK 95-F-VP/Z	0717076 619
GMSTBV 2,5/6-GF-7,62 EX	1796704 383	GMVSTBR 2,5/ 4-ST	1737725 336	GMVSTBW 2,5/12-ST-7,62	1832510 337	HDFK 95/Z	0717364 620
GMSTBV 2,5/7-G	1766505 344	GMVSTBR 2,5/ 4-ST-7,62	1832549 336	GMVSTBW 2,5/12-STF-7,62	1848096 337	HDFKV 50/Z	0714095 617
GMSTBV 2,5/7-G-7,62	1766615 344	GMVSTBR 2,5/ 4-STF-7,62	1847903 337	GMVSTBW 2,5/12-STF-7,62 EX	1810104 379	HDFKV 95-F/Z	0714118 621
GMSTBV 2,5/7-GF-7,62	1829206 345	GMVSTBR 2,5/ 4-STF-7,62 EX	1809911 379	GSMKDS 3/ 2	1733020 123	HDFKV 95/Z	0714105 621
GMSTBV 2,5/7-GF-7,62 EX	1796717 383	GMVSTBR 2,5/ 5-ST	1737738 336	GSMKDS 3/ 2-7,62	1733729 123	HDFKV 10-TWIN	0709550 623
GMSTBV 2,5/8-G	1766518 344	GMVSTBR 2,5/5-ST-7,62	1832552 336	GSMKDS 3/3	1733033 123	HDFKV 25-TWIN	0709563 623
GMSTBV 2,5/8-G-7,62	1766628 344	GMVSTBR 2,5/5-STF-7,62	1847916 337	GSMKDS 3/3-7,62	1733732 123	HDFKV 50	0708522 617
GMSTBV 2,5/8-GF-7,62	1829219 345	GMVSTBR 2,5/5-STF-7,62 EX	1809924 379	GSMKDSN 1,5/2-7,62	1718605 119	HDFKV 50-VP	0708580 619
GMSTBV 2,5/8-GF-7,62 EX	1796720 383	GMVSTBR 2,5/6-ST	1737741 336	GSMKDSN 1,5/3-7,62	1718618 119	HDFKV 50-VP/Z	0717212 619
GMSTBV 2,5/ 9-G GMSTBV 2,5/ 9-G-7,62 GMSTBV 2,5/ 9-GF-7,62 GMSTBV 2,5/ 9-GF-7,62 EX	1766521 344 1766631 344 1829222 345 1796733 383	GMVSTBR 2,5/6-ST-7,62 GMVSTBR 2,5/6-STF-7,62 GMVSTBR 2,5/6-STF-7,62 EX GMVSTBR 2,5/7-ST	1832565 336 1847929 337 1809937 379 1737754 336	GSMKDSN 1,5/ 4-7,62 GSMKDSN 1,5/ 5-7,62 GSMKDSN 1,5/ 6-7,62 GSMKDSN 1,5/ 7-7,62	1718621 119 1718634 119 1718647 119 1718650 119	HDFKV 95 HDFKV 95-F	0709547 621 0709673 621
GMSTBV 2,5/10-G GMSTBV 2,5/10-G-7,62 GMSTBV 2,5/10-GF-7,62 GMSTBV 2,5/10-GF-7,62 EX	1766534 344 1766644 344 1829235 345 1796746 383	GMVSTBR 2,5/ 7-ST-7,62 GMVSTBR 2,5/ 7-STF-7,62 GMVSTBR 2,5/ 7-STF-7,62 EX GMVSTBR 2,5/ 8-ST	1832578 336 1847932 337 1809940 379 1737767 336	GSMKDSN 1,5/ 8-7,62 GSMKDSN 1,5/ 9-7,62 GSMKDSN 1,5/10-7,62 GSMKDSN 1,5/11-7,62	1718663 119 1718676 119 1718689 119 1718692 119	1	
GMSTBV 2,5/11-G	1766547 344	GMVSTBR 2,5/8-ST-7,62	1832581 336	GSMKDSN 1,5/12-7,62	1718702 119	IBS RL FOC	2725147 436
GMSTBV 2,5/11-G-7,62	1766657 344	GMVSTBR 2,5/8-STF-7,62	1847945 337	GSMKDSP 1,5/ 2	1718029 121	IC 2,5 HC/ 2-G-5,08	1943302 498
GMSTBV 2,5/11-GF-7,62	1829248 345	GMVSTBR 2,5/8-STF-7,62 EX	1809953 379	GSMKDSP 1,5/ 2-7,62	1718728 121	IC 2,5 HC/ 2-GF-5,08	1943425 499
GMSTBV 2,5/11-GF-7,62 EX	1796759 383	GMVSTBR 2,5/9-ST	1737770 336	GSMKDSP 1,5/ 3	1718032 121	IC 2,5 HC/ 3-G-5,08	1943315 498
GMSTBV 2,5/12-G GMSTBV 2,5/12-G-7,62 GMSTBV 2,5/12-GF-7,62 GMSTBV 2,5/12-GF-7,62 EX	1766550 344 1767119 344 1829251 345 1796762 383	GMVSTBR 2,5/ 9-ST-7,62 GMVSTBR 2,5/ 9-STF-7,62 GMVSTBR 2,5/ 9-STF-7,62 EX GMVSTBR 2,5/10-ST	1832594 336 1847958 337 1809966 379 1737783 336	GSMKDSP 1,5/ 3-7,62	1718731 121	IC 2,5 HC/ 3-GF-5,08 IC 2,5 HC/ 4-G-5,08 IC 2,5 HC/ 4-GF-5,08 IC 2,5 HC/ 5-G-5,08	1943438 499 1943328 498 1943441 499 1943331 498
GMSTBVA 2,5 HC/ 2-G-7,62 GMSTBVA 2,5 HC/ 2-G-7,62-LR GMSTBVA 2,5 HC/ 3-G-7,62 GMSTBVA 2,5 HC/ 3-G-7,62-LR	1792397 505 1812979 505 1767979 505 1812982 505	GMVSTBR 2,5/10-ST-7,62 GMVSTBR 2,5/10-STF-7,62 GMVSTBR 2,5/10-STF-7,62 EX GMVSTBR 2,5/11-ST	1832604 336 1847961 337 1809979 379 1737796 336	н		IC 2,5 HC/ 5-GF-5,08 IC 2,5 HC/ 6-G-5,08 IC 2,5 HC/ 6-GF-5,08 IC 2,5 HC/ 7-G-5,08	1943454 499 1943344 498 1943467 499 1943360 498
GMSTBVA 2,5 HC/4-G-7,62	1758179 505	GMVSTBR 2,5/11-ST-7,62	1832617 336	HBUS 107,6-16P-1S BK	2896306 702	IC 2,5 HC/ 7-GF-5,08	1943470 499
GMSTBVA 2,5 HC/4-G-7,62-LR	1812995 505	GMVSTBR 2,5/11-STF-7,62	1847974 337	HBUS 161,6-16P-1S BK	2278555 702	IC 2,5 HC/ 8-G-5,08	1943373 498
GMSTBVA 2,5 HC/5-G-7,62	1773455 505	GMVSTBR 2,5/11-STF-7,62 EX	1809982 379	HBUS 35,6-16P-1S BK	2896283 702	IC 2,5 HC/ 8-GF-5,08	1943483 499
GMSTBVA 2,5 HC/5-G-7,62-LR	1813004 505	GMVSTBR 2,5/12-ST	1737806 336	HBUS 35,6-16P-2S BK	2896319 702	IC 2,5 HC/ 9-G-5,08	1943386 498
GMSTBVA 2,5 HC/6-G-7,62	1767050 505	GMVSTBR 2,5/12-ST-7,62	1832620 336	HBUS 53,6-16P-1S BK	2896458 702	IC 2,5 HC/ 9-GF-5,08	1943496 499
GMSTBVA 2,5 HC/6-G-7,62-LR	1813017 505	GMVSTBR 2,5/12-STF-7,62	1847987 337	HBUS 53,6-16P-3S BK	2896322 702	IC 2,5 HC/10-G-5,08	1943399 498
GMSTBVA 2,5 HC/7-G-7,62	1792407 505	GMVSTBR 2,5/12-STF-7,62 EX	1809995 379	HBUS 71,6-16P-1S BK	2896296 702	IC 2,5 HC/10-GF-5,08	1943506 499
GMSTBVA 2,5 HC/7-G-7,62-LR	1813020 505	GMVSTBW 2,5 HV/ 2-ST-7,62	1771910 501	HBUS-B SET BK	2278173 698	IC 2,5 HC/11-G-5,08	1943409 498
GMSTBVA 2,5 HC/ 8-G-7,62	1792410 505	GMVSTBW 2,5 HV/ 3-ST-7,62	1993967 501	HC-ALU 6 DECO 100 GY	2200914 768	IC 2,5 HC/11-GF-5,08	1943519 499
GMSTBVA 2,5 HC/ 8-G-7,62-LR	1813033 505	GMVSTBW 2,5 HV/ 4-ST-7,62	1927221 501	HC-ALU 6 DECO 150 GY	2200915 768	IC 2,5 HC/12-G-5,08	1943412 498
GMSTBVA 2,5 HC/ 9-G-7,62	1792423 505	GMVSTBW 2,5/ 2-ST	1737819 337	HC-ALU 6 DECO 200 GY	2200916 768	IC 2,5 HC/12-GF-5,08	1943522 499
GMSTBVA 2,5 HC/ 9-G-7,62-LR	1813046 505	GMVSTBW 2,5/ 2-ST-7,62	1832413 337	HC-ALU 6 MOUNT 100 GY	2200911 768	IC 2,5/2-G-5,08	1786404 332
GMSTBVA 2,5 HC/10-G-7,62	1792436 505	GMVSTBW 2,5/ 2-STF-7,62	1847990 337	HC-ALU 6 MOUNT 150 GY	2200912 768	IC 2,5/2-GF-5,08	1825129 333
GMSTBVA 2,5 HC/10-G-7,62-LR	1813059 505	GMVSTBW 2,5/ 2-STF-7,62 EX	1810007 379	HC-ALU 6 MOUNT 200 GY	2200913 768	IC 2,5/2-GF-5,08 EX	1810337 377
GMSTBVA 2,5 HC/11-G-7,62	1792449 505	GMVSTBW 2,5/ 3-ST	1737822 337	HC-ALU 6-100,5 COVER GY	2200901 769	IC 2,5/2-ST-5,08	1786174 272
GMSTBVA 2,5 HC/11-G-7,62-LR	1813062 505	GMVSTBW 2,5/ 3-ST-7,62	1832426 337	HC-ALU 6-100,5 DKL-COVER GY	2201123 769	IC 2,5/2-STF-5,08	1825310 273
GMSTBVA 2,5 HC/12-G-7,62	1792452 505	GMVSTBW 2,5/ 3-STF-7,62	1848009 337	HC-ALU 6-100,5 PROFILE 100	2200897 769	IC 2,5/2-STF-5,08 EX	1810117 373
GMSTBVA 2,5 HC/12-G-7,62-LR	1813075 505	GMVSTBW 2,5/ 3-STF-7,62 EX	1810010 379	HC-ALU 6-100,5 PROFILE 1000	2200900 769	IC 2,5/2-STGF-5,08	1825501 273
GMSTBVA 2,5/2-G	1766660 345	GMVSTBW 2,5/ 4-ST	1737835 337	HC-ALU 6-100,5 PROFILE 150	2200898 769	IC 2,5/3-G-5,08	1786417 332
GMSTBVA 2,5/2-G-7,62	1766770 345	GMVSTBW 2,5/ 4-ST-7,62	1832439 337	HC-ALU 6-100,5 PROFILE 200	2200899 769	IC 2,5/3-GF-5,08	1825132 333
GMSTBVA 2,5/ 3-G	1766673 345	GMVSTBW 2,5/ 4-STF-7,62	1848012 337	HC-ALU 6-100,5 SEAL EMC	2200909 769	IC 2,5/3-GF-5,08 EX	1810340 377
GMSTBVA 2,5/ 3-G-7,62	1766783 345	GMVSTBW 2,5/ 4-STF-7,62 EX	1810023 379	HC-ALU 6-161 COVER GY	2200906 769	IC 2,5/3-ST-5,08	1786187 272
GMSTBVA 2,5/ 4-G	1766686 345	GMVSTBW 2,5/ 5-ST	1737848 337	HC-ALU 6-161 MOUNT 100 GY	2201327 769	IC 2,5/3-STF-5,08	1825323 273
GMSTBVA 2,5/ 4-G-7,62	1766796 345	GMVSTBW 2,5/ 5-ST-7,62	1832442 337	HC-ALU 6-161 PROFILE 100	2200902 769	IC 2,5/3-STF-5,08 EX	1810120 373
GMSTBVA 2,5/5-G	1766699 345	GMVSTBW 2,5/5-STF-7,62	1848025 337	HC-ALU 6-161 PROFILE 1000	2200905 769	IC 2,5/ 3-STGF-5,08	1825514 273
GMSTBVA 2,5/5-G-7,62	1766806 345	GMVSTBW 2,5/5-STF-7,62 EX	1810036 379	HC-ALU 6-161 PROFILE 150	2200903 769	IC 2,5/ 4-G-5,08	1786420 332
GMSTBVA 2,5/6-G	1766709 345	GMVSTBW 2,5/6-ST	1737851 337	HC-ALU 6-161 PROFILE 200	2200904 769	IC 2,5/ 4-GF-5,08	1825145 333
GMSTBVA 2,5/6-G-7,62	1766819 345	GMVSTBW 2,5/6-ST-7,62	1832455 337	HC-ALU 6-161 SEAL EMC	2200910 769	IC 2,5/ 4-GF-5,08 EX	1810353 377

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IC 2,5/4-STF-5,08	1825336 273	IC-DFR 3	1852037 350	ICV 2,5/ 5-GF-5,08	1825721 333	IMC 1,5/13-ST-3,81	1857993 196
IC 2,5/4-STF-5,08 EX	1810133 373	IC-DFR 4	1852040 350	ICV 2,5/ 5-GF-5,08 EX	1810476 377	IMC 1,5/13-STGF-3,81	1858141 197
IC 2,5/4-STGF-5,08	1825527 273	IC-DFR 5	1852053 350	ICV 2,5/ 6-G-5,08	1785984 333	IMC 1,5/14-G-3,81	1862690 238
IC 2,5/5-G-5,08	1786433 332	IC-DFR 6	1852066 350	ICV 2,5/ 6-GF-5,08	1825734 333	IMC 1,5/14-ST-3,81	1858002 196
IC 2,5/5-GF-5,08	1825158 333	IC-DFR 7	1852079 350	ICV 2,5/ 6-GF-5,08 EX	1810489 377	IMC 1,5/14-STGF-3,81	1858154 197
IC 2,5/5-GF-5,08 EX	1810366 377	IC-DFR 8	1852082 350	ICV 2,5/ 7-G-5,08	1785997 333	IMC 1,5/15-G-3,81	1862700 238
IC 2,5/5-ST-5,08	1786200 272	IC-DFR 9	1852095 350	ICV 2,5/ 7-GF-5,08	1825747 333	IMC 1,5/15-ST-3,81	1858015 196
IC 2,5/5-STF-5,08	1825349 273	IC-DFR 10	1852105 350	ICV 2,5/ 7-GF-5,08 EX	1810492 377	IMC 1,5/15-STGF-3,81	1858167 197
IC 2,5/5-STF-5,08 EX	1810146 373	IC-DFR 11	1852118 350	ICV 2,5/ 8-G-5,08	1786006 333	IMC 1,5/16-G-3,81	1862713 238
IC 2,5/5-STGF-5,08	1825530 273	IC-DFR 12	1852121 350	ICV 2,5/ 8-GF-5,08	1825750 333	IMC 1,5/16-ST-3,81	1858028 196
IC 2,5/6-G-5,08	1786446 332	IC-DFR 13	1852134 350	ICV 2,5/ 8-GF-5,08 EX	1810502 377	IMC 1,5/16-STGF-3,81	1858170 197
IC 2,5/ 6-GF-5,08	1825161 333	IC-DFR 14	1852147 350	ICV 2,5/ 9-G-5,08	1786019 333	IMCV 1,5/2-G-3,81	1875425 239
IC 2,5/ 6-GF-5,08 EX	1810379 377	IC-DFR 15	1852150 350	ICV 2,5/ 9-GF-5,08	1825763 333	IMCV 1,5/3-G-3,81	1875438 239
IC 2,5/ 6-ST-5,08	1786213 272	IC-DFR 16	1852163 350	ICV 2,5/ 9-GF-5,08 EX	1810515 377	IMCV 1,5/4-G-3,81	1875441 239
IC 2,5/ 6-STF-5,08	1825352 273	ICC 2,5/ 2-STZ-5,08	1823846 296	ICV 2,5/10-G-5,08	1786022 333	IMCV 1,5/5-G-3,81	1875454 239
IC 2,5/ 6-STF-5,08 EX	1810159 373	ICC 2,5/ 2-STZF-5,08	1823383 297	ICV 2,5/10-GF-5,08	1825776 333	IMCV 1,5/6-G-3,81	1875467 239
IC 2,5/ 6-STGF-5,08	1825543 273	ICC 2,5/ 3-STZ-5,08	1823859 296	ICV 2,5/10-GF-5,08 EX	1810528 377	IMCV 1,5/7-G-3,81	1875470 239
IC 2,5/ 7-G-5,08	1786459 332	ICC 2,5/ 3-STZF-5,08	1823396 297	ICV 2,5/11-G-5,08	1786035 333	IMCV 1,5/8-G-3,81	1875483 239
IC 2,5/ 7-GF-5,08	1825174 333	ICC 2,5/ 4-STZ-5,08	1823862 296	ICV 2,5/11-GF-5,08	1825789 333	IMCV 1,5/9-G-3,81	1875496 239
IC 2,5/7-GF-5,08 EX	1810382 377	ICC 2,5/ 4-STZF-5,08	1823406 297	ICV 2,5/11-GF-5,08 EX	1810531 377	IMCV 1,5/10-G-3,81	1875506 239
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IC 2,5/7-STF-5,08	1825365 273	ICC 2,5/ 5-STZF-5,08	1823419 297	ICV 2,5/12-GF-5,08	1825792 333	IMCV 1,5/12-G-3,81	1875522 239
IC 2,5/7-STF-5,08 EX	1810162 373	ICC 2,5/ 6-STZ-5,08	1823888 296	ICV 2,5/12-GF-5,08 EX	1810544 377	IMCV 1,5/13-G-3,81	1875535 239
IC 2,5/ 7-STGF-5,08	1825556 273	ICC 2,5/6-STZF-5,08	1823422 297	ICV 2,5/13-G-5,08	1786051 333	IMCV 1,5/14-G-3,81	1875548 239
IC 2,5/ 8-G-5,08	1786462 332	ICC 2,5/7-STZ-5,08	1823891 296	ICV 2,5/13-GF-5,08	1825802 333	IMCV 1,5/15-G-3,81	1875551 239
IC 2,5/ 8-GF-5,08	1825187 333	ICC 2,5/7-STZF-5,08	1823435 297	ICV 2,5/14-G-5,08	1786064 333	IMCV 1,5/16-G-3,81	1875564 239
IC 2,5/ 8-GF-5,08 EX	1810395 377	ICC 2,5/8-STZ-5,08	1823901 296	ICV 2,5/14-GF-5,08	1825815 333	IPC 16/2-G-10,16	1969535 570
IC 2,5/8-ST-5,08	1786239 272	ICC 2,5/8-STZF-5,08	1823448 297	ICV 2,5/15-G-5,08	1786077 333	IPC 16/ 2-GF-10,16	1969616 571
IC 2,5/8-STF-5,08	1825378 273	ICC 2,5/9-STZ-5,08	1823914 296	ICV 2,5/15-GF-5,08	1825828 333	IPC 16/ 2-GFU-10,16	1969933 571
IC 2,5/8-STF-5,08 EX	1810175 373	ICC 2,5/9-STZF-5,08	1823451 297	ICV 2,5/16-G-5,08	1786080 333	IPC 16/ 2-GU-10,16	1969852 571
IC 2,5/8-STGF-5,08	1825569 273	ICC 2,5/10-STZ-5,08	1823927 296	ICV 2,5/16-GF-5,08	1825831 333	IPC 16/ 2-ST-10,16	1969373 558
IC 2,5/ 9-G-5,08	1786475 332	ICC 2,5/10-STZF-5,08	1823464 297	IDC 0,3/ 2-3,81	1706170 154	IPC 16/ 2-STF-10,16	1969454 559
IC 2,5/ 9-GF-5,08	1825190 333	ICC 2,5/11-STZ-5,08	1823930 296	IDC 0,3/ 3-3,81	1706183 154	IPC 16/ 2-STGF-10,16	1975817 560
IC 2,5/ 9-GF-5,08 EX	1810405 377	ICC 2,5/11-STZF-5,08	1823477 297	IDC 0,3/ 4-3,81	1706196 154	IPC 16/ 3-G-10,16	1969548 570
IC 2,5/ 9-ST-5,08	1786242 272	ICC 2,5/12-STZ-5,08	1823943 296	IDC 0,3/ 5-3,81	1706206 154	IPC 16/ 3-GF-10,16	1969629 571
IC 2,5/9-STF-5,08	1825381 273	ICC 2,5/12-STZF-5,08	1823480 297	IDC 0,3/6-3,81	1706219 154	IPC 16/3-GFU-10,16	1969946 571
IC 2,5/9-STF-5,08 EX	1810188 373	ICC 2,5/13-STZ-5,08	1823956 296	IDC 0,3/7-3,81	1706222 154	IPC 16/3-GU-10,16	1969865 571
IC 2,5/9-STGF-5,08	1825572 273	ICC 2,5/13-STZF-5,08	1823493 297	IDC 0,3/8-3,81	1706235 154	IPC 16/3-ST-10,16	1969386 558
IC 2,5/10-G-5,08	1786488 332	ICC 2,5/14-STZ-5,08	1823969 296	IDC 0,3/9-3,81	1706248 154	IPC 16/3-STF-10,16	1969467 559
IC 2,5/10-GF-5,08	1825200 333	ICC 2,5/14-STZF-5,08	1823503 297	IDC 0,3/10-3,81	1706251 154	IPC 16/3-STF-SH-10,16	1737323 559
IC 2,5/10-GF-5,08 EX	1810418 377	ICC 2,5/15-STZ-5,08	1823972 296	IDC 0,3/11-3,81	1706264 154	IPC 16/3-STGF-10,16	1975820 560
IC 2,5/10-ST-5,08	1786255 272	ICC 2,5/15-STZF-5,08	1823516 297	IDC 0,3/12-3,81	1706277 154	IPC 16/4-G-10,16	1969551 570
IC 2,5/10-STF-5,08	1825394 273	ICC 2,5/16-STZ-5,08	1823985 296	IMC 1,5/ 2-G-3,81	1862577 238	IPC 16/4-GF-10,16	1969632 571
IC 2,5/10-STF-5,08 EX	1810191 373	ICC 2,5/16-STZF-5,08	1823529 297	IMC 1,5/ 2-ST-3,81	1857883 196	IPC 16/ 4-GFU-10,16	1969959 571
IC 2,5/10-STGF-5,08	1825585 273	ICC-MT 0,5-1,0	3190577 827	IMC 1,5/ 2-ST-3,81 AU	1943263 692	IPC 16/ 4-GU-10,16	1969878 571
IC 2,5/11-G-5,08	1786491 332	ICC-MT 0,5-1,0 BA	3190603 827	IMC 1,5/ 2-STGF-3,81	1858031 197	IPC 16/ 4-ST-10,16	1969399 558
IC 2,5/11-GF-5,08	1825213 333	ICC-MT 1,5-2,5	3190580 827	IMC 1,5/ 3-G-3,81	1862580 238	IPC 16/ 4-STF-10,16	1969470 559
IC 2,5/11-GF-5,08 EX	1810421 377	ICC-MT 1,5-2,5 BA	3190593 827	IMC 1,5/ 3-ST-3,81	1857896 196	IPC 16/4-STF-SH-10,16	1970346 559
IC 2,5/11-ST-5,08	1786268 272	ICV 2,5 HC/ 2-G-5,08	1943535 499	IMC 1,5/ 3-STGF-3,81	1858044 197	IPC 16/4-STGF-10,16	1975833 560
IC 2,5/11-STF-5,08	1825404 273	ICV 2,5 HC/ 2-GF-5,08	1943645 499	IMC 1,5/ 4-G-3,81	1862593 238	IPC 16/4-STGF-SH-10,16	1975891 561
IC 2,5/11-STF-5,08 EX	1810201 373	ICV 2,5 HC/ 3-G-5,08	1943548 499	IMC 1,5/ 4-ST-3,81	1857906 196	IPC 16/5-G-10,16	1969564 570
IC 2,5/11-STGF-5,08	1825598 273	ICV 2,5 HC/ 3-GF-5,08	1943658 499	IMC 1,5/ 4-STGF-3,81	1858057 197	IPC 16/5-GF-10,16	1969645 571
IC 2,5/12-G-5,08	1786501 332	ICV 2,5 HC/ 4-G-5,08	1943551 499	IMC 1,5/ 5-G-3,81	1862603 238	IPC 16/5-GFU-10,16	1969962 571
IC 2,5/12-GF-5,08	1825226 333	ICV 2,5 HC/ 4-GF-5,08	1943661 499	IMC 1,5/ 5-ST-3,81	1857919 196	IPC 16/5-GU-10,16	1969881 571
IC 2,5/12-GF-5,08 EX	1810434 377	ICV 2,5 HC/ 5-G-5,08	1943564 499	IMC 1,5/ 5-ST-3,81 AU	1943276 692	IPC 16/5-ST-10,16	1969409 558
IC 2,5/12-ST-5,08	1786271 272	ICV 2,5 HC/5-GF-5,08	1943674 499	IMC 1,5/5-ST-3,81 GY7035 AU	1719707 692	IPC 16/5-STF-10,16	1969483 559
IC 2,5/12-STF-5,08	1825417 273	ICV 2,5 HC/6-G-5,08	1943577 499	IMC 1,5/5-STGF-3,81	1858060 197	IPC 16/5-STGF-10,16	1975846 560
IC 2,5/12-STF-5,08 EX	1810214 373	ICV 2,5 HC/6-GF-5,08	1943687 499	IMC 1,5/6-G-3,81	1862616 238	IPC 16/6-G-10,16	1969577 570
IC 2,5/12-STGF-5,08	1825608 273	ICV 2,5 HC/7-G-5,08	1943580 499	IMC 1,5/6-ST-3,81	1857922 196	IPC 16/6-GF-10,16	1969658 571
IC 2,5/13-G-5,08	1786514 332	ICV 2,5 HC/ 7-GF-5,08	1943690 499	IMC 1,5/6-STGF-3,81	1858073 197	IPC 16/ 6-GFU-10,16	1969975 571
IC 2,5/13-GF-5,08	1825239 333	ICV 2,5 HC/ 8-G-5,08	1943593 499	IMC 1,5/7-G-3,81	1862629 238	IPC 16/ 6-GU-10,16	1969894 571
IC 2,5/13-ST-5,08	1786284 272	ICV 2,5 HC/ 8-GF-5,08	1943700 499	IMC 1,5/7-ST-3,81	1857935 196	IPC 16/ 6-ST-10,16	1969412 558
IC 2,5/13-STF-5,08	1825420 273	ICV 2,5 HC/ 9-G-5,08	1943603 499	IMC 1,5/7-STGF-3,81	1858086 197	IPC 16/ 6-STF-10,16	1969496 559
IC 2,5/13-STGF-5,08	1825611 273	ICV 2,5 HC/9-GF-5,08	1943713 499	IMC 1,5/ 8-G-3,81	1862632 238	IPC 16/ 6-STGF-10,16	1975859 560
IC 2,5/14-G-5,08	1786527 332	ICV 2,5 HC/10-G-5,08	1943616 499	IMC 1,5/ 8-ST-3,81	1857948 196	IPC 16/ 7-G-10,16	1969580 570
IC 2,5/14-GF-5,08	1825242 333	ICV 2,5 HC/10-GF-5,08	1943726 499	IMC 1,5/ 8-STGF-3,81	1858099 197	IPC 16/ 7-GF-10,16	1969661 571
IC 2,5/14-ST-5,08	1786297 272	ICV 2,5 HC/11-G-5,08	1943629 499	IMC 1,5/ 9-G-3,81	1862645 238	IPC 16/ 7-GFU-10,16	1969988 571
IC 2,5/14-STF-5,08	1825433 273	ICV 2,5 HC/11-GF-5,08	1943739 499	IMC 1,5/ 9-ST-3,81	1857951 196	IPC 16/7-GU-10,16	1969904 571
IC 2,5/14-STGF-5,08	1825624 273	ICV 2,5 HC/12-G-5,08	1943632 499	IMC 1,5/ 9-STGF-3,81	1858109 197	IPC 16/7-ST-10,16	1969425 558
IC 2,5/15-G-5,08	1786530 332	ICV 2,5 HC/12-GF-5,08	1943742 499	IMC 1,5/10-G-3,81	1862658 238	IPC 16/7-STF-10,16	1969506 559
IC 2,5/15-GF-5,08	1825255 333	ICV 2,5/2-G-5,08	1785942 333	IMC 1,5/10-ST-3,81	1857964 196	IPC 16/7-STF-SH-10,16	1737336 559
IC 2,5/15-ST-5,08	1786307 272	ICV 2,5/ 2-GF-5,08	1825695 333	IMC 1,5/10-ST-3,81 AU	1943289 692	IPC 16/ 7-STGF-10,16	1975862 560
IC 2,5/15-STF-5,08	1825446 273	ICV 2,5/ 2-GF-5,08 EX	1810447 377	IMC 1,5/10-STGF-3,81	1858112 197	IPC 16/ 8-G-10,16	1969593 570
IC 2,5/15-STGF-5,08	1825637 273	ICV 2,5/ 3-G-5,08	1785955 333	IMC 1,5/11-G-3,81	1862661 238	IPC 16/ 8-GF-10,16	1969674 571
IC 2,5/16-G-5,08	1786543 332	ICV 2,5/ 3-GF-5,08	1825705 333	IMC 1,5/11-ST-3,81	1857977 196	IPC 16/ 8-GFU-10,16	1969991 571
IC 2,5/16-GF-5,08	1825268 333	ICV 2,5/ 3-GF-5,08 EX	1810450 377	IMC 1,5/11-STGF-3,81	1858125 197	IPC 16/ 8-GU-10,16	1969917 571
IC 2,5/16-ST-5,08	1786310 272	ICV 2,5/ 4-G-5,08	1785968 333	IMC 1,5/12-G-3,81	1862674 238	IPC 16/ 8-ST-10,16	1969438 558
IC 2,5/16-STF-5,08	1825459 273	ICV 2,5/ 4-GF-5,08	1825718 333	IMC 1,5/12-ST-3,81	1857980 196	IPC 16/ 8-STF-10,16	1969519 559
IC 2,5/16-STGF-5,08	1825640 273	ICV 2,5/ 4-GF-5,08 EX	1810463 377	IMC 1,5/12-STGF-3,81	1858138 197	IPC 16/ 8-STGF-10,16	1975875 560

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IPC 16/9-GF-10,16	1969687 571	IPC 5/ 8-STGF-7,62	1709322 527	ISPC 16/3-STF-10,16	1748639 565	KGG-MC 1,5/13	1834453 243
IPC 16/9-GFU-10,16	1970003 571	IPC 5/ 9-G-7,62	1708459 540	ISPC 16/3-STGF-10,16	1748710 565	KGG-MC 1,5/14	1834466 243
IPC 16/9-GU-10,16	1969920 571	IPC 5/ 9-GF-7,62	1708569 541	ISPC 16/4-ST-10,16	1748561 564	KGG-MC 1,5/15	1834479 243
IPC 16/9-ST-10,16	1969441 558	IPC 5/9-GFU-7,62	1708789 541	ISPC 16/4-STF-10,16	1748642 565	KGG-MC 1,5/16	1834482 243
IPC 16/9-STF-10,16	1969522 559	IPC 5/9-GU-7,62	1708679 541	ISPC 16/4-STGF-10,16	1748723 565	KGG-MSTB 2,5/ 2	1803934 348
IPC 16/9-STGF-10,16	1975888 560	IPC 5/9-ST-7,62	1709115 526	ISPC 16/5-ST-10,16	1748574 564	KGG-MSTB 2,5/ 3	1803947 348
IPC 35 HC/2-GF-15,00	1784910 592	IPC 5/9-STF-7,62	1709225 527	ISPC 16/5-STF-10,16	1748655 565	KGG-MSTB 2,5/ 4	1803882 349
IPC 35 HC/ 2-STF-15,00	1784790 588	IPC 5/9-STGCL-7,62	1718339 527	ISPC 16/ 5-STGF-10,16	1748736 565	KGG-MSTB 2,5/5	1803895 349
IPC 35 HC/ 2-STGF-15,00	1784855 589	IPC 5/9-STGF-7,62	1709335 527	ISPC 16/ 6-ST-10,16	1748587 564	KGG-MSTB 2,5/6	1803905 349
IPC 35 HC/ 3-GF-15,00	1784923 592	IPC 5/10-G-7,62	1708462 540	ISPC 16/ 6-STF-10,16	1748668 565	KGG-MSTB 2,5/7	1803918 349
IPC 35 HC/ 3-STF-15,00	1784800 588	IPC 5/10-GF-7,62	1708572 541	ISPC 16/ 6-STGF-10,16	1748749 565	KGG-MSTB 2,5/8	1803921 349
IPC 35 HC/ 3-STGF-15,00	1784868 589	IPC 5/10-GFU-7,62	1708792 541	ISPC 16/ 7-ST-10,16	1748590 564	KGG-PC 4/3	1837227 522
IPC 35 HC/ 4-GF-15,00	1784936 592	IPC 5/10-GU-7,62	1708682 541	ISPC 16/ 7-STF-10,16	1748671 565	KGG-PC 4/3-F	1837324 523
IPC 35 HC/ 4-STF-15,00	1784813 588	IPC 5/10-ST-7,62	1709128 526	ISPC 16/ 7-STGF-10,16	1748752 565	KGG-PC 4/4	1837230 522
IPC 35 HC/ 4-STF-SH-15,00	1784842 589	IPC 5/10-STF-7,62	1709238 527	ISPC 16/ 8-ST-10,16	1748600 564	KGG-PC 4/4-F	1837337 523
IPC 35 HC/ 4-STGF-15,00	1784871 589	IPC 5/10-STGCL-7,62	1718342 527	ISPC 16/ 8-STF-10,16	1748684 565	KGG-PC 4/5	1837243 522
IPC 35 HC/ 4-STGF-SH-15,00	1784907 589	IPC 5/10-STGF-7,62	1709348 527	ISPC 16/ 8-STGF-10,16	1748765 565	KGG-PC 4/5-F	1837340 523
IPC 35 HC/ 5-GF-15,00	1784949 592	IPC 5/11-G-7,62	1708475 540	ISPC 16/ 9-ST-10,16	1748613 564	KGS-MSTB 2,5/8	1783779 349
IPC 35 HC/ 5-STF-15,00	1784826 588	IPC 5/11-GF-7,62	1708585 541	ISPC 16/ 9-STF-10,16	1748697 565	KGS-MSTB 2,5/9	1783782 349
IPC 35 HC/ 5-STGF-15,00	1784884 589	IPC 5/11-GFU-7,62	1708802 541	ISPC 16/ 9-STGF-10,16	1748778 565	KGS-MSTB 2,5/10	1783740 349
IPC 35 HC/ 6-GF-15,00	1784952 592	IPC 5/11-GU-7,62	1708695 541	ISPC 5/ 2-STF-7,62	1748972 535	KGS-MSTB 2,5/11	1783805 349
IPC 35 HC/ 6-STF-15,00	1784839 588	IPC 5/11-ST-7,62	1709131 526	ISPC 5/ 2-STGCL-7,62	1748862 534	KGS-MSTB 2,5/12	1783818 349
IPC 35 HC/ 6-STGF-15,00	1784897 589	IPC 5/11-STF-7,62	1709241 527	ISPC 5/ 2-STGF-7,62	1749201 535	KGS-MSTB 2,5/13	1783821 349
IPC 5/2-G-7,62	1708381 540	IPC 5/11-STGCL-7,62	1718355 527	ISPC 5/ 3-STF-7,62	1748985 535	KGS-MSTB 2,5/14	1783834 349
IPC 5/2-GF-7,62	1708491 541	IPC 5/11-STGF-7,62	1709351 527	ISPC 5/ 3-STGCL-7,62	1748875 534	KGS-MSTB 2,5/15	1783847 349
IPC 5/2-GFU-7,62	1708718 541	IPC 5/12-G-7,62	1708488 540	ISPC 5/ 3-STGF-7,62	1749214 535	KGS-MSTB 2,5/16	1783850 349
IPC 5/2-GU-7,62	1708608 541	IPC 5/12-GF-7,62	1708598 541	ISPC 5/ 4-STF-7,62	1748998 535	KGS-PC 4/ 6	1837256 523
IPC 5/2-ST-7,62	1709047 526	IPC 5/12-GFU-7,62	1708815 541	ISPC 5/ 4-STGCL-7,62	1748888 534	KGS-PC 4/ 6-F	1837353 523
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IPC 5/2-STGCL-7,62	1718261 527	IPC 5/12-ST-7,62	1709144 526	ISPC 5/ 5-STF-7,62	1749007 535	KGS-PC 4/ 7-F	1837366 523
IPC 5/2-STGF-7,62	1709267 527	IPC 5/12-STF-7,62	1709254 527	ISPC 5/ 5-STGCL-7,62	1748891 534	KGS-PC 4/ 8	1837272 523
IPC 5/3-G-7,62	1708394 540	IPC 5/12-STGCL-7,62	1718368 527	ISPC 5/5-STGF-7,62	1749230 535	KGS-PC 4/ 8-F	1837379 523
IPC 5/3-GF-7,62	1708501 541	IPC 5/12-STGF-7,62	1709364 527	ISPC 5/6-STF-7,62	1749010 535	KGS-PC 4/ 9	1837285 523
IPC 5/3-GFU-7,62	1708721 541	IPCV 16/2-G-10,16	1969690 572	ISPC 5/6-STGCL-7,62	1748901 534	KGS-PC 4/ 9-F	1837382 523
IPC 5/3-GU-7,62	1708611 541	IPCV 16/2-GF-10,16	1969771 573	ISPC 5/6-STGF-7,62	1749243 535	KGS-PC 4/10	1837298 523
IPC 5/3-ST-7,62	1709050 526	IPCV 16/3-G-10,16	1969700 572	ISPC 5/ 7-STF-7,62	1749023 535	KGS-PC 4/10-F	1837395 523
IPC 5/3-STF-7,62	1709160 527	IPCV 16/3-GF-10,16	1969784 573	ISPC 5/ 7-STGCL-7,62	1748914 534	KGS-PC 4/11	1837308 523
IPC 5/3-STGCL-7,62	1718274 527	IPCV 16/4-G-10,16	1969713 572	ISPC 5/ 7-STGF-7,62	1749256 535	KGS-PC 4/11-F	1837405 523
IPC 5/3-STGF-7,62	1709270 527	IPCV 16/4-GF-10,16	1969797 573	ISPC 5/ 8-STF-7,62	1749036 535	KGS-PC 4/12	1837311 523
IPC 5/ 4-G-7,62 IPC 5/ 4-GF-7,62 IPC 5/ 4-GFU-7,62 IPC 5/ 4-GU-7,62	1708404 540 1708514 541 1708734 541 1708624 541	IPCV 16/5-G-10,16 IPCV 16/5-GF-10,16 IPCV 16/6-G-10,16 IPCV 16/6-GF-10,16	1969726 572 1969807 573 1969739 572 1969810 573	ISPC 5/8-STGCL-7,62 ISPC 5/8-STGF-7,62 ISPC 5/9-STF-7,62 ISPC 5/9-STGCL-7,62	1748927 534 1749269 535 1749049 535 1748930 534	KGS-PC 4/12-F KST-POF	1837418 523 1933011 436
IPC 5/4-ST-7,62 IPC 5/4-STF-7,62 IPC 5/4-STF-SH-7,62 IPC 5/4-STGCL-7,62	1709063 526 1709173 527 1709380 528 1718287 527	IPCV 16/7-G-10,16 IPCV 16/7-GF-10,16 IPCV 16/8-G-10,16 IPCV 16/8-GF-10,16	1969742 572 1969823 573 1969755 572 1969836 573	ISPC 5/9-STGF-7,62 ISPC 5/10-STF-7,62 ISPC 5/10-STGCL-7,62 ISPC 5/10-STGF-7,62	1749272 535 1749052 535 1748943 534 1749285 535	M	
IPC 5/4-STGF-7,62	1709283 527	IPCV 16/9-G-10,16	1969768 572	ISPC 5/11-STF-7,62	1749065 535	MC 0,5/2-G-2,5	1881448 172
IPC 5/4-STGF-SH-7,62	1709377 529	IPCV 16/9-GF-10,16	1969849 573	ISPC 5/11-STGCL-7,62	1748956 534	MC 0,5/2-G-2,5 THT	1963421 170
IPC 5/5-G-7,62	1708417 540	IPCV 35 HC/ 2-GF-15,00	1793558 593	ISPC 5/11-STGF-7,62	1749298 535	MC 0,5/2-G-2,5 THT R44	1963641 171
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IPC 5/5-STGCL-7,62 IPC 5/5-STGF-7,62 IPC 5/6-G-7,62 IPC 5/6-GF-7,62	1718290 527 1709296 527 1708420 540 1708530 541	IPCV 5/ 2-GF-7,62 IPCV 5/ 3-G-7,62 IPCV 5/ 3-GF-7,62 IPCV 5/ 4-G-7,62	1708938 543 1708831 542 1708941 543 1708844 542	K		MC 0,5/2-G-2,54 SMDR24C2 MC 0,5/3-G-2,5 MC 0,5/3-G-2,5 THT MC 0,5/3-G-2,5 THT R44	1706131 179 1881451 172 1963434 170 1963654 171
IPC 5/6-GFU-7,62	1708750 541	IPCV 5/ 4-GF-7,62	1708954 543	KDS 2,5	1705016 117	MC 0,5/3-G-2,54 P20 THR R24	1821258 176
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IPC 5/6-ST-7,62	1709089 526	IPCV 5/ 5-GF-7,62	1708967 543	KDS 3-MT	1780015 117	MC 0,5/3-G-2,54 P20THRR24C2	1706205 178
IPC 5/6-STF-7,62	1709199 527	IPCV 5/ 6-G-7,62	1708860 542	KDS 3-PMT	1780028 117	MC 0,5/3-G-2,54 SMD R24	1821708 177
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IPC 5/7-GF-7,62	1708543 541	IPCV 5/ 8-G-7,62	1708886 542	KDS10-PE/SO	1704062 459	MC 0,5/4-G-2,5 THT	1963447 170
IPC 5/7-GFU-7,62	1708763 541	IPCV 5/ 8-GF-7,62	1708996 543	KDS10/SO	1704059 457	MC 0,5/4-G-2,5 THT R44	1963667 171
IPC 5/7-GU-7,62	1708653 541	IPCV 5/ 9-G-7,62	1708899 542	KDSP 4	1780536 127	MC 0,5/4-G-2,54 P20 THR R24	1821261 176
IPC 5/7-ST-7,62	1709092 526	IPCV 5/ 9-GF-7,62	1709005 543	KGG-MC 1,5/ 2	1834343 242	MC 0,5/4-G-2,54 P20THRR24C1	1706223 178
IPC 5/7-STF-7,62	1709209 527	IPCV 5/10-G-7,62	1708909 542	KGG-MC 1,5/ 3	1834356 242	MC 0,5/4-G-2,54 P20THRR24C2	1706204 178
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IPC 5/8-GF-7,62	1708556 541	IPCV 5/12-G-7,62	1708925 542	KGG-MC 1,5/7	1834398 243	MC 0,5/5-G-2,5	1881477 172
IPC 5/8-GFU-7,62	1708776 541	IPCV 5/12-GF-7,62	1709034 543	KGG-MC 1,5/8	1834408 243	MC 0,5/5-G-2,5 THT	1963450 170
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MC 0,5/8-G-2,54 P20THRR44C2	1706199 178	MC 1,5/ 2-GF-3,5 P14 THRR32	1789614 209	MC 1,5/ 4-GF-3,5 P14 THR	1789643 215	MC 1,5/6-G-3,81 P26 THR	1722024 216
MC 0,5/8-G-2,54 SMD R44	1821753 177	MC 1,5/ 2-GF-3,5 P20 THRR32	1789397 211	MC 1,5/ 4-GF-3,5 P14 THRR56	1789656 209	MC 1,5/6-G-3,81 P26 THRR56	1782501 212
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MC 0,5/8-G-2,54 SMDR44C2	1706124 179	MC 1,5/ 2-GF-3,5 P26 THRR32	1789177 213	MC 1,5/ 4-GF-3,5 P26 THR	1789203 217	MC 1,5/6-GF-3,5	1843839 225
MC 0,5/9-G-2,5	1881516 172	MC 1,5/ 2-GF-3,5-LR	1817615 225	MC 1,5/ 4-GF-3,5 P26 THRR56	1789216 213	MC 1,5/6-GF-3,5 P14 THR	1789685 215
MC 0,5/9-G-2,5 THT	1963492 170	MC 1,5/ 2-GF-3,81	1827868 225	MC 1,5/ 4-GF-3,5-LR	1817631 225	MC 1,5/6-GF-3,5 P14 THRR56	1789698 209
MC 0,5/9-G-2,5 THT R44	1963719 171	MC 1,5/ 2-GF-3,81 P14 THR	1781803 215	MC 1,5/ 4-GF-3,81	1827884 225	MC 1,5/6-GF-3,5 P20 THRR56	1789478 211
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MC 0,5/9-G-2,54 P20THRR44C2	1706198 178	MC 1,5/ 2-GF-3,81 P26 THR	1722150 217	MC 1,5/ 4-GF-3,81 P20 THRR56	1782048 211	MC 1,5/6-GF-3,5-LR	1817657 225
MC 0,5/9-G-2,54 SMD R44	1821766 177	MC 1,5/ 2-GF-3,81 P26 THRR32	1781913 213	MC 1,5/ 4-GF-3,81 P26 THR	1722176 217	MC 1,5/6-GF-3,81	1827907 225
MC 0,5/9-G-2,54 SMDR44C1	1706142 179	MC 1,5/ 2-GF-3,81-LR	1817806 225	MC 1,5/ 4-GF-3,81 P26 THRR56	1781939 213	MC 1,5/6-GF-3,81 P14 THR	1781845 215
MC 0,5/9-G-2,54 SMDR44C2	1706123 179	MC 1,5/ 2-GF-5,08	1847466 249	MC 1,5/ 4-GF-3,81-LR	1817822 225	MC 1,5/6-GF-3,81 P14 THRR56	1782174 209
MC 0,5/10-G-2,5	1881529 172	MC 1,5/ 2-ST-3,5	1840366 190	MC 1,5/ 4-GF-5,08	1847482 249	MC 1,5/6-GF-3,81 P20 THRR56	1782064 211
MC 0,5/10-G-2,5 THT	1963502 170	MC 1,5/ 2-ST-3,5-LR	1816852 191	MC 1,5/ 4-ST-3,5	1840382 190	MC 1,5/6-GF-3,81 P26 THR	1722202 217
MC 0,5/10-G-2,5 THT R44	1963722 171	MC 1,5/ 2-ST-3,81	1803578 190	MC 1,5/ 4-ST-3,5-LR	1816878 191	MC 1,5/6-GF-3,81 P26 THRR56	1781955 213
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MC 0,5/10-G-2,54 P20THRR44C1	1706214 178	MC 1,5/ 2-ST-3,81-LR	1817042 191	MC 1,5/ 4-ST-3,81-LR	1817068 191	MC 1,5/6-GF-5,08	1847505 249
MC 0,5/10-G-2,54 P20THRR44C2	1706197 178	MC 1,5/ 2-ST-5,08	1836079 247	MC 1,5/ 4-ST-5,08	1836095 247	MC 1,5/6-ST-3,5	1840405 190
MC 0,5/10-G-2,54 SMD R56	1821779 177	MC 1,5/ 2-ST1-5,08	1900772 246	MC 1,5/ 4-ST1-5,08	1900798 246	MC 1,5/6-ST-3,5-LR	1816894 191
MC 0,5/10-G-2,54 SMDR44C1	1706140 179	MC 1,5/ 2-ST1F-5,08	1900882 247	MC 1,5/ 4-ST1F-5,08	1900905 247	MC 1,5/6-ST-3,81	1803617 190
MC 0,5/10-G-2,54 SMDR44C2	1706122 179	MC 1,5/ 2-STF-3,5	1847055 191	MC 1,5/ 4-STF-3,5	1847071 191	MC 1,5/6-ST-3,81-LR	1817084 191
MC 0,5/11-G-2,5	1881532 172	MC 1,5/ 2-STF-3,81	1827703 191	MC 1,5/ 4-STF-3,81	1827729 191	MC 1,5/6-ST-5,08	1836118 247
MC 0,5/11-G-2,5 THT	1963515 170	MC 1,5/ 2-STF-5,08	1847356 247	MC 1,5/ 4-STF-5,08	1847372 247	MC 1,5/6-ST1-5,08	1900811 246
MC 0,5/11-G-2,5 THT R44	1963735 171	MC 1,5/ 3-G-3,5	1844223 224	MC 1,5/ 4-STZ1-3,5	1767500 191	MC 1,5/6-ST1F-5,08	1900921 247
MC 0,5/11-G-2,54 P20 THR R56	1821339 176	MC 1,5/3-G-3,5 P14 THR	1788961 214	MC 1,5/ 4-STZ1-3,81	1767461 191	MC 1,5/6-STF-3,5	1847097 191
MC 0,5/11-G-2,54 P20THRR56C1	1706213 178	MC 1,5/3-G-3,5 P14 THRR32	1788974 208	MC 1,5/ 5-G-3,5	1844249 224	MC 1,5/6-STF-3,81	1827745 191
MC 0,5/11-G-2,54 P20THRR56C2	1706195 178	MC 1,5/3-G-3,5 P20 THRR32	1788754 210	MC 1,5/ 5-G-3,5 P14 THR	1789009 214	MC 1,5/6-STF-5,08	1847398 247
MC 0,5/11-G-2,54 SMD R56	1821782 177	MC 1,5/3-G-3,5 P26 THR	1788521 216	MC 1,5/ 5-G-3,5 P14 THRR56	1789012 208	MC 1,5/6-STZ2-3,5	1767610 191
MC 0,5/11-G-2,54 SMDR56C1	1706139 179	MC 1,5/3-G-3,5 P26 THRR32	1788534 212	MC 1,5/5-G-3,5 P20 THRR56	1788796 210	MC 1,5/6-STZ2-3,81	1767694 191
MC 0,5/11-G-2,54 SMDR56C2	1706120 179	MC 1,5/3-G-3,5-RN	1731688 225	MC 1,5/5-G-3,5 P26 THR	1788563 216	MC 1,5/7-G-3,5	1844265 224
MC 0,5/12-G-2,5	1881545 172	MC 1,5/3-G-3,81	1803280 224	MC 1,5/5-G-3,5 P26 THRR56	1788576 212	MC 1,5/7-G-3,5 P14 THR	1789041 214
MC 0,5/12-G-2,5 THT	1939316 170	MC 1,5/3-G-3,81 P14 THR	1782365 214	MC 1,5/5-G-3,5-RN	1731701 225	MC 1,5/7-G-3,5 P14 THRR56	1789054 208
MC 0,5/12-G-2,5 THT R44	1963748 171	MC 1,5/3-G-3,81 P14 THRR32	1722105 208	MC 1,5/5-G-3,81	1803303 224	MC 1,5/7-G-3,5 P20 THRR56	1788835 210
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MC 0,5/12-G-2,54 P20THRR56C1	1706212 178	MC 1,5/3-G-3,81 P26 THR	1721999 216	MC 1,5/5-G-3,81 P14 THRR56	1702662 208	MC 1,5/7-G-3,5 P26 THRR56	1788615 212
MC 0,5/12-G-2,54 P20THRR56C2	1706194 178	MC 1,5/3-G-3,81 P26 THRR32	1782475 212	MC 1,5/5-G-3,81 P20 THRR56	1782608 210	MC 1,5/7-G-3,5-RN	1731727 225
MC 0,5/12-G-2,54 SMD R56	1821795 177	MC 1,5/ 3-G-5,08	1836192 248	MC 1,5/5-G-3,81 P26 THR	1722011 216	MC 1,5/7-G-3,81	1803329 224
MC 0,5/12-G-2,54 SMDR56C1	1706137 179	MC 1,5/ 3-GF-3,5	1843800 225	MC 1,5/5-G-3,81 P26 THRR56	1782491 212	MC 1,5/7-G-3,81 P14 THR	1782404 214
MC 0,5/12-G-2,54 SMDR56C2	1706119 179	MC 1,5/ 3-GF-3,5 P14 THR	1789627 215	MC 1,5/5-G-5,08	1836215 248	MC 1,5/7-G-3,81 P14 THRR56	1702664 208
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MC 0,5/13-G-2,54 P20THRR56C1	1706211 178	MC 1,5/3-GF-3,5 P20 THRR56	1789410 211	MC 1,5/ 5-GF-3,5 P14 THR	1789669 215	MC 1,5/7-G-3,81 P26 THR	1722037 216
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MC 1,5/ 8-GF-3,5 P14 THR	1789724 215	MC 1,5/10-G-5,08	1836260 248	MC 1,5/12-G-3,5 P26 THR	1788709 216	MC 1,5/16-GF-3,5-LR	1817754 225
MC 1,5/ 8-GF-3,5 P14 THRR56	1789737 209	MC 1,5/10-GF-3,5	1843871 225	MC 1,5/12-G-3,5 P26 THRR72	1788712 212	MC 1,5/16-GF-3,81	1828003 225
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MC 1,5/ 8-GF-3,5 P26 THR	1789287 217	MC 1,5/10-GF-3,5 P14 THRR72	1789779 209	MC 1,5/12-G-3,81	1803374 224	MC 1,5/16-ST-3,5	1840502 190
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MC 1,5/8-GF-5,08	1847521 249	MC 1,5/10-GF-3,81 P26 THRR72	1781997 213	MC 1,5/12-GF-3,5 P26 THR	1789368 215	MCC 1/4-STZ-3,81	1852192 206
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MC 1,5/8-ST-3,5-LR	1816917 191	MC 1,5/10-GF-5,08	1847547 249	MC 1,5/12-GF-3,5-LR	1817712 225	MCC 1/5-STZ-3,81	1852202 206
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MC 1,5/ 8-STZ3-3,81	1768952 191	MC 1,5/10-ST-3,81 AU	1879599 692	MC 1,5/12-ST-3,5-LR	1816959 191	MCC 1/10-STZ-3,81	1852257 206
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MC 1,5/ 9-G-3,5 P14 THR	1789083 214	MC 1,5/10-ST-5,08	1836150 247	MC 1,5/12-ST-3,81-LR	1817149 191	MCC 1/11-STZ-3,81	1852260 206
MC 1,5/ 9-G-3,5 P14 THRR56	1789096 208	MC 1,5/10-ST1-5,08	1900853 246	MC 1,5/12-ST-5,08	1836176 247	MCC 1/11-STZF-3,81	1852451 207
MC 1,5/ 9-G-3,5 P20 THRR56	1788877 210	MC 1,5/10-ST1F-5,08	1900963 247	MC 1,5/12-ST1-5,08	1900879 246	MCC 1/12-STZ-3,81	1852273 206
MC 1,5/ 9-G-3,5 P26 THR	1788644 216	MC 1,5/10-STF-3,5	1847204 191	MC 1,5/12-ST1F-5,08	1900989 247	MCC 1/12-STZF-3,81	1852464 207
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MC 1,5/ 9-G-3,5-RN	1731743 225	MC 1,5/10-STF-5,08	1847437 247	MC 1,5/12-STF-3,81	1827800 191	MCC 1/13-STZF-3,81	1852477 207
MC 1,5/ 9-G-3,81	1803345 224	MC 1,5/10-STZ4-3,5	1766255 191	MC 1,5/12-STF-5,08	1847453 247	MCC 1/14-STZ-3,81	1852299 206
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MC 1,5/ 9-G-3,81 P14 THRR56	1702666 208	MC 1,5/11-G-3,5	1844304 224	MC 1,5/12-STZ4-3,81	1768978 191	MCC 1/15-STZ-3,81	1852309 206
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MCD 0,5/11-G1-2,5	1894891 173	MCDN 1,5/5-G1-3,5 P14THR	1953949 218	MCDNV 1,5/3-G1-3,5 RNP14THR	1952513 221	MCDNV 1,5/16-G1-3,81 P14THR	1750245 220
MCD 0,5/12-G1-2,5	1894901 173	MCDN 1,5/5-G1-3,5 P26THR	1953745 219	MCDNV 1,5/3-G1-3,5 RNP26THR	1952461 221	MCDNV 1,5/16-G1-3,81 P26THR	1750436 221
MCD 1,5/ 2-G-3,81	1829950 234	MCDN 1,5/5-G1-3,5 RNP14THR	1953237 219	MCDNV 1,5/3-G1-3,81 P14THR	1750119 220	MCDV 0,5/ 2-G1-2,5	1894914 173
MCD 1,5/2-G1-3,81	1843075 235	MCDN 1,5/5-G1-3,5 RNP26THR	1953554 219	MCDNV 1,5/3-G1-3,81 P26THR	1750300 221	MCDV 0,5/3-G1-2,5	1894927 173
MCD 1,5/2-G1F-3,81	1842911 235	MCDN 1,5/5-G1-3,81 P14THR	1749366 218	MCDNV 1,5/4-G1-3,5 P14THR	1952995 220	MCDV 0,5/4-G1-2,5	1894930 173
MCD 1,5/2-GF-3,81	1830101 235	MCDN 1,5/5-G1-3,81 P26THR	1749557 219	MCDNV 1,5/4-G1-3,5 P26THR	1952801 221	MCDV 0,5/5-G1-2,5	1894943 173
MCD 1,5/3-G-3,81	1829963 234	MCDN 1,5/6-G1-3,5 P14THR	1953952 218	MCDNV 1,5/4-G1-3,5 RNP14THR	1952526 221	MCDV 0,5/6-G1-2,5	1894956 173
MCD 1,5/3-G1-3,81	1843088 235	MCDN 1,5/6-G1-3,5 P26THR	1953758 219	MCDNV 1,5/ 4-G1-3,5 RNP26THR	1952474 221	MCDV 0,5/7-G1-2,5	1894969 173
MCD 1,5/3-G1F-3,81	1842924 235	MCDN 1,5/6-G1-3,5 RNP14THR	1953240 219	MCDNV 1,5/ 4-G1-3,81 P14THR	1750122 220	MCDV 0,5/8-G1-2,5	1894972 173
MCD 1,5/3-GF-3,81	1830114 235	MCDN 1,5/6-G1-3,5 RNP26THR	1953567 219	MCDNV 1,5/ 4-G1-3,81 P26THR	1750313 221	MCDV 0,5/9-G1-2,5	1894985 173
MCD 1,5/4-G-3,81	1829976 234	MCDN 1,5/6-G1-3,81 P14THR	1749379 218	MCDNV 1,5/ 5-G1-3,5 P14THR	1953004 220	MCDV 0,5/10-G1-2,5	1894998 173
MCD 1,5/ 4-G1-3,81	1843091 235	MCDN 1,5/6-G1-3,81 P26THR	1749560 219	MCDNV 1,5/5-G1-3,5 P26THR	1952814 221	MCDV 0,5/11-G1-2,5	1895007 173
MCD 1,5/ 4-G1F-3,81	1842937 235	MCDN 1,5/7-G1-3,5 P14THR	1953965 218	MCDNV 1,5/5-G1-3,5 RNP14THR	1952539 221	MCDV 0,5/12-G1-2,5	1895010 173
MCD 1,5/ 4-GF-3,81	1830127 235	MCDN 1,5/7-G1-3,5 P26THR	1953761 219	MCDNV 1,5/5-G1-3,5 RNP26THR	1952487 221	MCDV 1,5/2-G-3,81	1830402 236
MCD 1,5/ 5-G-3,81	1829989 234	MCDN 1,5/7-G1-3,5 RNP14THR	1953253 219	MCDNV 1,5/5-G1-3,81 P14THR	1750135 220	MCDV 1,5/2-G1-3,81	1847725 237
MCD 1,5/5-G1-3,81	1843101 235	MCDN 1,5/7-G1-3,5 RNP26THR	1953570 219	MCDNV 1,5/5-G1-3,81 P26THR	1750326 221	MCDV 1,5/2-G1F-3,81	1842762 237
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MCD 1,5/ 6-G1F-3,81	1842953 235	MCDN 1,5/8-G1-3,5 RNP14THR	1953266 219	MCDNV 1,5/6-G1-3,81 P14THR	1750148 220	MCDV 1,5/3-GF-3,81	1830266 237
MCD 1,5/ 6-GF-3,81	1830143 235	MCDN 1,5/8-G1-3,5 RNP26THR	1953583 219	MCDNV 1,5/6-G1-3,81 P26THR	1750339 221	MCDV 1,5/4-G-3,81	1830428 236
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MCD 1,5/11-G-3,81	1830046 234	MCDN 1,5/11-G1-3,5 RNP14THR	1953295 219	MCDNV 1,5/ 9-G1-3,81 P14THR	1750177 220	MCDV 1,5/8-G1-3,81	1847796 237
MCD 1,5/11-G1-3,81	1843169 235	MCDN 1,5/11-G1-3,5 RNP26THR	1953619 219	MCDNV 1,5/9-G1-3,81 P26THR	1750368 221	MCDV 1,5/8-G1F-3,81	1842827 237
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MCDN 1,5/2-G1-3,5 P26THR	1953716 219	MCDN 1,5/15-G1-3,5 RNP26THR	1953651 219	MCDNV 1,5/13-G1-3,81 P26THR	1750407 221	MCDV 1,5/14-G1F-3,81	1842885 237
MCDN 1,5/2-G1-3,5 RNP14THR	1953208 219	MCDN 1,5/15-G1-3,81 P14THR	1749463 218	MCDNV 1,5/14-G1-3,5 P14THR	1953130 220	MCDV 1,5/14-GF-3,81	1830376 237
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MCDN 1,5/3-G1-3,5 P14THR	1953923 218	MCDN 1,5/16-G1-3,5 RNP14THR	1953350 219	MCDNV 1,5/14-G1-3,81 P14THR	1750229 220	MCDV 1,5/15-GF-3,81	1830389 237
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MCO 1,5/5-GR-3,81	1861675 231	MCV 0,5/ 9-G-2,54 SMD R44	1821614 177	MCV 1,5/2-GF-3,81-LR	1818180 227	MCV 1,5/5-GF-3,81 P20 THRR56	1825801 211
MCO 1,5/6-GL-3,81	1861769 230	MCV 0,5/ 9-G-2,54 SMDR56C1	1706103 179	MCV 1,5/2-GF-5,08	1847615 249	MCV 1,5/5-GF-3,81 P26 THR	1707667 217
MCO 1,5/6-GR-3,81	1861688 231	MCV 0,5/ 9-G-2,54 SMDR56C2	1706085 179	MCV 1,5/3-G-3,5	1843619 226	MCV 1,5/5-GF-3,81 P26 THRR56	1713376 213
MCO 1,5/7-GL-3,81	1861772 230	MCV 0,5/10-G-2,5	1881639 173	MCV 1,5/3-G-3,5 P14 THR	1780215 215	MCV 1,5/5-GF-3,81-LR	1818216 227
MCO 1,5/7-GR-3,81	1861691 231	MCV 0,5/10-G-2,5 THT	1963612 171	MCV 1,5/3-G-3,5 P14 THRR32	1780228 209	MCV 1,5/5-GF-5,08	1847644 249
MCO 1,5/8-GL-3,81	1861785 230	MCV 0,5/10-G-2,5 THT R44	1963845 171	MCV 1,5/3-G-3,5 P20 THRR32	1780901 211	MCV 1,5/6-G-3,5	1843648 226
MCO 1,5/8-GR-3,81	1861701 231	MCV 0,5/10-G-2,54 P20 THR R56	1821478 177	MCV 1,5/3-G-3,5 P26 THR	1779381 217	MCV 1,5/6-G-3,5 P14 THR	1780273 215
MCO 1,5/9-GL-3,81	1861798 230	MCV 0,5/10-G-2,54 P20THRR56C1	1706178 179	MCV 1,5/3-G-3,5 P26 THRR32	1779394 213	MCV 1,5/6-G-3,5 P14 THRR56	1780286 209
MCO 1,5/9-GR-3,81	1861714 231	MCV 0,5/10-G-2,54 P20THRR56C2	1706159 179	MCV 1,5/3-G-3,5-RN	1731484 227	MCV 1,5/6-G-3,5 P20 THRR56	1780969 211
MCO 1,5/10-GL-3,81	1861808 230	MCV 0,5/10-G-2,54 SMD R56	1821627 177	MCV 1,5/3-G-3,81	1803439 226	MCV 1,5/6-G-3,5 P26 THR	1779446 217
MCO 1,5/10-GR-3,81	1861727 231	MCV 0,5/10-G-2,54 SMDR56C1	1706102 179	MCV 1,5/3-G-3,81 P14 THR	1707010 215	MCV 1,5/6-G-3,5 P26 THRR56	1779459 213
MCV 0,5/ 2-G-2,5	1881558 173	MCV 0,5/10-G-2,54 SMDR56C2	1706084 179	MCV 1,5/3-G-3,81 P14 THR R32	1728374 209	MCV 1,5/6-G-3,5-RN	1731523 227
MCV 0,5/ 2-G-2,5 THT	1963531 171	MCV 0,5/11-G-2,5	1881642 173	MCV 1,5/3-G-3,81 P20 THRR32	1825678 211	MCV 1,5/6-G-3,81	1803468 226
MCV 0,5/ 2-G-2,5 THT R44	1963751 171	MCV 0,5/11-G-2,5 THT	1963625 171	MCV 1,5/3-G-3,81 P26 THR	1707434 217	MCV 1,5/6-G-3,81 P14 THR	1707049 215
MCV 0,5/ 2-G-2,54 P20 THR R24	1821397 177	MCV 0,5/11-G-2,5 THT R44	1963858 171	MCV 1,5/3-G-3,81 P26 THRR32	1712843 213	MCV 1,5/6-G-3,81 P20 THRR56	1825704 211
MCV 0,5/2-G-2,54 P20THRR24C1	1706187 179	MCV 0,5/11-G-2,54 P20 THR R56	1821481 177	MCV 1,5/3-G-5,08	1836309 249	MCV 1,5/6-G-3,81 P26 THR	1707463 217
MCV 0,5/2-G-2,54 P20THRR24C2	1706169 179	MCV 0,5/11-G-2,54 P20THRR56C1	1706177 179	MCV 1,5/3-GF-3,5	1843237 227	MCV 1,5/6-G-3,81 P26 THRR56	1712911 213
MCV 0,5/2-G-2,54 SMD R24	1821546 177	MCV 0,5/11-G-2,54 P20THRR56C2	1706158 179	MCV 1,5/3-GF-3,5 P14 THR	1779954 215	MCV 1,5/6-G-5,08	1836338 249
MCV 0,5/2-G-2,54 SMDR24C1	1706113 179	MCV 0,5/11-G-2,54 SMD R56	1821630 177	MCV 1,5/3-GF-3,5 P14 THRR56	1779967 209	MCV 1,5/6-GF-3,5	1843266 227
MCV 0,5/2-G-2,54 SMDR24C2	1706093 179	MCV 0,5/11-G-2,54 SMDR56C1	1706101 179	MCV 1,5/3-GF-3,5 P20 THRR56	1780684 211	MCV 1,5/ 6-GF-3,5 P14 THR	1780011 215
MCV 0,5/3-G-2,5	1881561 173	MCV 0,5/11-G-2,54 SMDR56C2	1706083 179	MCV 1,5/3-GF-3,5 P26 THR	1779080 217	MCV 1,5/ 6-GF-3,5 P14 THRR56	1780024 209
MCV 0,5/3-G-2,5 THT	1963544 171	MCV 0,5/12-G-2,5	1881655 173	MCV 1,5/3-GF-3,5 P26 THRR56	1779093 213	MCV 1,5/ 6-GF-3,5 P20 THRR56	1780749 211
MCV 0,5/3-G-2,5 THT R44	1963764 171	MCV 0,5/12-G-2,5 THT	1963638 171	MCV 1,5/3-GF-3,5-LR	1818009 227	MCV 1,5/ 6-GF-3,5 P26 THR	1779145 217
MCV 0,5/ 3-G-2,54 P20 THR R24	1821407 177	MCV 0,5/12-G-2,5 THT R44	1963861 171	MCV 1,5/3-GF-3,81	1830606 227	MCV 1,5/6-GF-3,5 P26 THRR56	1779158 213
MCV 0,5/ 3-G-2,54 P20THRR24C1	1706186 179	MCV 0,5/12-G-2,54 P20 THR R56	1821494 177	MCV 1,5/3-GF-3,81 P14 THR	1707227 215	MCV 1,5/6-GF-3,5-LR	1818038 227
MCV 0,5/ 3-G-2,54 P20THRR24C2	1706168 179	MCV 0,5/12-G-2,54 P20THRR56C1	1706175 179	MCV 1,5/3-GF-3,81 P20 THRR56	1825788 211	MCV 1,5/6-GF-3,81	1830635 227
MCV 0,5/ 3-G-2,54 SMD R24	1821559 177	MCV 0,5/12-G-2,54 P20THRR56C2	1706157 179	MCV 1,5/3-GF-3,81 P26 THR	1707641 217	MCV 1,5/6-GF-3,81 P14 THR	1707256 215
MCV 0,5/ 3-G-2,54 SMDR24C1	1706111 179	MCV 0,5/12-G-2,54 SMD R56	1821643 177	MCV 1,5/3-GF-3,81 P26 THRR56	1713350 213	MCV 1,5/6-GF-3,81 P20 THRR56	1825814 211
MCV 0,5/ 3-G-2,54 SMDR24C2	1706092 179	MCV 0,5/12-G-2,54 SMDR56C1	1706100 179	MCV 1,5/3-GF-3,81-LR	1818193 227	MCV 1,5/6-GF-3,81 P26 THR	1707670 217
MCV 0,5/ 4-G-2,5	1881574 173	MCV 0,5/12-G-2,54 SMDR56C2	1706081 179	MCV 1,5/3-GF-5,08	1847628 249	MCV 1,5/6-GF-3,81 P26 THRR56	1713389 213
MCV 0,5/ 4-G-2,5 THT	1963557 171	MCV 0,5/13-G-2,54 P20 THR R56	1821504 177	MCV 1,5/4-G-3,5	1843622 226	MCV 1,5/6-GF-3,81-LR	1818229 227
MCV 0,5/ 4-G-2,5 THT R44	1963777 171	MCV 0,5/13-G-2,54 P20THRR56C1	1706174 179	MCV 1,5/4-G-3,5 P14 THR	1780231 215	MCV 1,5/6-GF-5,08	1847657 249
MCV 0,5/ 4-G-2,54 P20 THR R24	1821410 177	MCV 0,5/13-G-2,54 P20THRR56C2	1706156 179	MCV 1,5/4-G-3,5 P14 THRR32	1780244 209	MCV 1,5/7-G-3,5	1843651 226
MCV 0,5/ 4-G-2,54 P20THRR24C1	1706185 179	MCV 0,5/13-G-2,54 SMD R56	1821656 177	MCV 1,5/4-G-3,5 P20 THRR32	1780927 211	MCV 1,5/7-G-3,5 P14 THR	1780299 215
MCV 0,5/ 4-G-2,54 P20THRR24C2	1706166 179	MCV 0,5/13-G-2,54 SMDR56C1	1706098 179	MCV 1,5/4-G-3,5 P26 THR	1779404 217	MCV 1,5/7-G-3,5 P14 THRR56	1780309 209
MCV 0,5/ 4-G-2,54 SMD R24	1821562 177	MCV 0,5/13-G-2,54 SMDR56C2	1706080 179	MCV 1,5/4-G-3,5 P26 THRR32	1779417 213	MCV 1,5/7-G-3,5 P20 THRR56	1780985 211
MCV 0,5/ 4-G-2,54 SMDR24C1	1706110 179	MCV 0,5/14-G-2,54 P20 THR R56	1821517 177	MCV 1,5/4-G-3,5-RN	1731497 227	MCV 1,5/7-G-3,5 P26 THR	1779462 217
MCV 0,5/ 4-G-2,54 SMDR24C2	1706091 179	MCV 0,5/14-G-2,54 P20THRR72C1	1706173 179	MCV 1,5/4-G-3,81	1803442 226	MCV 1,5/7-G-3,5 P26 THRR56	1779475 213
MCV 0,5/ 5-G-2,5	1881587 173	MCV 0,5/14-G-2,54 P20THRR72C2	1706155 179	MCV 1,5/4-G-3,81 P14 THR	1707023 215	MCV 1,5/7-G-3,5-RN	1731536 227
MCV 0,5/ 5-G-2,5 THT	1963560 171	MCV 0,5/14-G-2,54 SMD R56	1821669 177	MCV 1,5/4-G-3,81 P14 THR R32	1728387 209	MCV 1,5/7-G-3,81	1803471 226
MCV 0,5/ 5-G-2,5 THT R44	1963780 171	MCV 0,5/14-G-2,54 SMDR72C1	1706097 179	MCV 1,5/4-G-3,81 P20 THRR32	1825681 211	MCV 1,5/7-G-3,81 P14 THR	1707052 215
MCV 0,5/ 5-G-2,54 P20 THR R24	1821423 177	MCV 0,5/14-G-2,54 SMDR72C2	1706078 179	MCV 1,5/4-G-3,81 P26 THR	1707447 217	MCV 1,5/7-G-3,81 P20 THRR56	1825717 211
MCV 0,5/ 5-G-2,54 P20THRR44C1	1706184 179	MCV 0,5/15-G-2,54 P20 THR R56	1821520 177	MCV 1,5/4-G-3,81 P26 THRR32	1712872 213	MCV 1,5/7-G-3,81 P26 THR	1707476 217
MCV 0,5/ 5-G-2,54 P20THRR44C2	1706165 179	MCV 0,5/15-G-2,54 P20THRR72C1	1706172 179	MCV 1,5/4-G-5,08	1836312 249	MCV 1,5/7-G-3,81 P26 THRR56	1712937 213
MCV 0,5/ 5-G-2,54 SMD R24	1821575 177	MCV 0,5/15-G-2,54 P20THRR72C2	1706153 179	MCV 1,5/4-GF-3,5	1843240 227	MCV 1,5/7-G-5,08	1836341 249
MCV 0,5/ 5-G-2,54 SMDR44C1	1706108 179	MCV 0,5/15-G-2,54 SMD R56	1821672 177	MCV 1,5/4-GF-3,5 P14 THR	1779970 215	MCV 1,5/7-GF-3,5	1843279 227
MCV 0,5/ 5-G-2,54 SMDR44C2	1706090 179	MCV 0,5/15-G-2,54 SMDR72C1	1706096 179	MCV 1,5/4-GF-3,5 P14 THRR56	1779983 209	MCV 1,5/7-GF-3,5 P14 THR	1780037 215
MCV 0,5/ 6-G-2,5	1881590 173	MCV 0,5/15-G-2,54 SMDR72C2	1706077 179	MCV 1,5/4-GF-3,5 P20 THRR56	1780707 211	MCV 1,5/7-GF-3,5 P14 THRR56	1780040 209
MCV 0,5/ 6-G-2,5 THT	1963573 171	MCV 0,5/16-G-2,54 P20 THR R72	1821533 177	MCV 1,5/4-GF-3,5 P26 THR	1779103 217	MCV 1,5/7-GF-3,5 P20 THRR56	1780765 211
MCV 0,5/ 6-G-2,5 THT R44	1963793 171	MCV 0,5/16-G-2,54 P20THRR72C1	1706171 179	MCV 1,5/4-GF-3,5 P26 THRR56	1779116 213	MCV 1,5/7-GF-3,5 P26 THR	1779161 217
MCV 0,5/ 6-G-2,54 P20 THR R44	1821436 177	MCV 0,5/16-G-2,54 P20THRR72C2	1706152 179	MCV 1,5/4-GF-3,5-LR	1818012 227	MCV 1,5/7-GF-3,5 P26 THRR56	1779174 213
MCV 0,5/ 6-G-2,54 P20THRR44C1	1706182 179	MCV 0,5/16-G-2,54 SMD R72	1821685 177	MCV 1,5/4-GF-3,81	1830619 227	MCV 1,5/7-GF-3,5-LR	1818041 227
MCV 0,5/ 6-G-2,54 P20THRR44C2	1706164 179	MCV 0,5/16-G-2,54 SMDR72C1	1706094 179	MCV 1,5/4-GF-3,81 P14 THR	1707230 215	MCV 1,5/7-GF-3,81	1830648 227
MCV 0,5/ 6-G-2,54 SMD R44	1821588 177	MCV 0,5/16-G-2,54 SMDR72C2	1706076 179	MCV 1,5/4-GF-3,81 P20 THRR56	1825791 211	MCV 1,5/7-GF-3,81 P14 THR	1707269 215
MCV 0,5/ 6-G-2,54 SMDR44C1	1706107 179	MCV 1,5/ 2-G-3,5	1843606 226	MCV 1,5/4-GF-3,81 P26 THR	1707654 217	MCV 1,5/7-GF-3,81 P20 THRR56	1825827 211
MCV 0,5/ 6-G-2,54 SMDR44C2	1706089 179	MCV 1,5/ 2-G-3,5 P14 THR	1780192 215	MCV 1,5/4-GF-3,81 P26 THRR56	1713363 213	MCV 1,5/7-GF-3,81 P26 THR	1707683 217
MCV 0,5/ 7-G-2,5	1881600 173	MCV 1,5/ 2-G-3,5 P14 THRR32	1780202 209	MCV 1,5/4-GF-3,81-LR	1818203 227	MCV 1,5/7-GF-3,81 P26 THRR56	1713392 213
MCV 0,5/ 7-G-2,5 THT	1963586 171	MCV 1,5/ 2-G-3,5 P20 THRR32	1780888 211	MCV 1,5/4-GF-5,08	1847631 249	MCV 1,5/7-GF-3,81-LR	1818232 227
MCV 0,5/ 7-G-2,5 THT R44	1963803 171	MCV 1,5/ 2-G-3,5 P26 THR	1779365 217	MCV 1,5/5-G-3,5	1843635 226	MCV 1,5/7-GF-5,08	1847660 249
MCV 0,5/7-G-2,54 P20 THR R44	1821449 177	MCV 1,5/ 2-G-3,5 P26 THRR32	1779378 213	MCV 1,5/ 5-G-3,5 P14 THR	1780257 215	MCV 1,5/8-G-3,5	1843664 226
MCV 0,5/7-G-2,54 P20THRR44C1	1706181 179	MCV 1,5/ 2-G-3,5-RN	1731471 227	MCV 1,5/ 5-G-3,5 P14 THRR56	1780260 209	MCV 1,5/8-G-3,5 P14 THR	1780312 215
MCV 0,5/7-G-2,54 P20THRR44C2	1706162 179	MCV 1,5/ 2-G-3,81	1803426 226	MCV 1,5/ 5-G-3,5 P20 THRR56	1780943 211	MCV 1,5/8-G-3,5 P14 THRR56	1780325 209
MCV 0,5/7-G-2,54 SMD R44	1821591 177	MCV 1,5/ 2-G-3,81 P14 THR	1707007 215	MCV 1,5/ 5-G-3,5 P26 THR	1779420 217	MCV 1,5/8-G-3,5 P20 THRR56	1781007 211
MCV 0,5/7-G-2,54 SMDR44C1	1706106 179	MCV 1,5/2-G-3,81 P14 THR R32	1755473 209	MCV 1,5/5-G-3,5 P26 THRR56	1779433 213	MCV 1,5/8-G-3,5 P26 THR	1779488 217
MCV 0,5/7-G-2,54 SMDR44C2	1706088 179	MCV 1,5/2-G-3,81 P20 THRR32	1825665 211	MCV 1,5/5-G-3,5-RN	1731510 227	MCV 1,5/8-G-3,5 P26 THRR56	1779491 213
MCV 0,5/8-G-2,5	1881613 173	MCV 1,5/2-G-3,81 P26 THR	1707421 217	MCV 1,5/5-G-3,81	1803455 226	MCV 1,5/8-G-3,5-RN	1731549 227
MCV 0,5/8-G-2,5 THT	1963599 171	MCV 1,5/2-G-3,81 P26 THRR32	1713554 213	MCV 1,5/5-G-3,81 P14 THR	1707036 215	MCV 1,5/8-G-3,81	1803484 226
MCV 0,5/8-G-2,5 THT R44	1963816 171	MCV 1,5/ 2-G-5,08	1836299 249	MCV 1,5/5-G-3,81 P20 THRR56	1825694 211	MCV 1,5/8-G-3,81 P14 THR	1707065 215
MCV 0,5/8-G-2,54 P20 THR R44	1821452 177	MCV 1,5/ 2-GF-3,5	1843224 227	MCV 1,5/5-G-3,81 P26 THR	1707450 217	MCV 1,5/8-G-3,81 P14 THRR56	1754526 209
MCV 0,5/8-G-2,54 P20THRR44C1	1706180 179	MCV 1,5/ 2-GF-3,5 P14 THR	1779938 215	MCV 1,5/5-G-3,81 P26 THRR56	1712898 213	MCV 1,5/8-G-3,81 P20 THRR56	1825720 211
MCV 0,5/8-G-2,54 P20THRR44C2	1706161 179	MCV 1,5/ 2-GF-3,5 P14 THRR32	1779941 209	MCV 1,5/5-G-5,08	1836325 249	MCV 1,5/8-G-3,81 P26 THR	1707489 217

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MCV 1,5/8-GF-3,5	1843282 227	MCV 1,5/11-G-3,81 P26 THR	1707515 217	MCVR 1,5/3-STF-3,81	1828359 193	MCVW 1,5/4-ST-3,5	1862878 193
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MCV 1,5/9-G-3,5 P26 THRR56	1779514 213	MCV 1,5/12-G-3,5 P14 THRR72	1780406 209	MCVR 1,5/8-ST-3,5	1863217 192	MCVW 1,5/ 8-STF-3,81	1828553 193
MCV 1,5/9-G-3,5-RN	1731552 227	MCV 1,5/12-G-3,5 P20 THRR72	1781081 211	MCVR 1,5/8-ST-3,81	1827185 192	MCVW 1,5/ 9-ST-3,5	1862920 193
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MCV 1,5/ 9-G-3,81 P14 THR	1707078 215	MCV 1,5/12-G-3,5 P26 THRR72	1779572 213	MCVR 1,5/8-STF-3,81	1828401 193	MCVW 1,5/ 9-STF-3,5	1863071 193
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MCV 1,5/9-GF-3,5 P26 THRR56	1779213 213	MCV 1,5/12-GF-3,5 P14 THRR72	1780189 209	MCVR 1,5/10-STF-3,81	1828427 193	MCVW 1,5/12-ST-3,5	1862959 193
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MDSTB 2,5/14-G1	1762813 329	MDSTBV 2,5/11-G1	1762936 329	ME 17,5 UT GN	2906775 658	ME 45 UT TBUS KMGY	2869511 668
MDSTB 2,5/14-G1-5,08	1762486 329	MDSTBV 2,5/11-G1-5,08	1762596 329	ME 17,5 UT TBUS KMGY	2914783 666	ME 45 UT/FE BUS/ 5 GN	2709765 664
MDSTB 2,5/15-G1	1762826 329	MDSTBV 2,5/11-GF	1846179 331	ME 17,5 UT/FE BUS/ 5 GN	2908728 662	ME 45 UT/FE BUS/ 5+2 GN	2735577 664
MDSTB 2,5/15-G1-5,08	1762499 329	MDSTBV 2,5/11-GF-5,08	1845727 331	ME 17,5 UT/FE BUS/ 5+2 GN	2854186 662	ME 45 UT/FE BUS/10+2 GN	2735580 664
MDSTB 2,5/16-G1	1762839 329	MDSTBV 2,5/12-G	1846030 330	ME 17,5 UT/FE BUS/10 GN	2908731 662	ME 45 UT/FE GN	2909358 660
MDSTB 2,5/16-G1-5,08	1762509 329	MDSTBV 2,5/12-G-5,08	1845581 330	ME 17,5 UT/FE BUS/10+2 GN	2854199 662	ME 45 UTG GN	2909374 660
MDSTBA 2,5/2-G	1846519 327	MDSTBV 2,5/12-G1	1762949 329	ME 17,5 UT/FE GN	2906924 658	ME 45 UTG TBUS KMGY	2914848 668
MDSTBA 2,5/2-G-5,08	1842063 327	MDSTBV 2,5/12-G1-5,08	1762606 329	ME 17,5 UTG GN	2906788 658	ME 45 UTG/FE GN	2909387 660
MDSTBA 2,5/3-G	1846522 327	MDSTBV 2,5/12-GF	1846182 331	ME 17,5 UTG TBUS KMGY	2914796 666	ME 45 UTM GN	2853404 675
MDSTBA 2,5/ 3-G-5,08	1842076 327	MDSTBV 2,5/12-GF-5,08	1845730 331	ME 17,5 UTG/FE GN	2906937 658	ME 45 UTMG GN	2853417 675
MDSTBA 2,5/ 4-G	1846535 327	MDSTBV 2,5/13-G1	1762952 329	ME 22,5 F-UT BUS/5 GN	2735975 663	ME 6,2 TBUS-2 1,5/5-ST-3,81KMGY	2969401 683
MDSTBA 2,5/ 4-G-5,08	1842089 327	MDSTBV 2,5/13-G1-5,08	1762619 329	ME 22,5 F-UT BUS/5+2 GN	2706014 663	ME 67,5 OT-1 MSTBO KMGY	2200522 672
MDSTBA 2,5/ 5-G	1846548 327	MDSTBV 2,5/14-G1	1762965 329	ME 22,5 F-UT BUS/10 GN	2735991 663	ME 67,5 UT TBUS KMGY	2200544 669
MDSTBA 2,5/ 5-G-5,08	1842092 327	MDSTBV 2,5/14-G1-5,08	1762622 329	ME 22,5 F-UT BUS/10+2 GN	2706030 663	ME 67,5 UT/FE BUS/10 KMGY	2200539 665
MDSTBA 2,5/ 6-G	1846551 327	MDSTBV 2,5/15-G1	1762978 329	ME 22,5 F-UT GN	2854131 659	ME 67,5 UT/FE BUS/10+2 KMGY	2200541 665
MDSTBA 2,5/ 6-G-5,08	1842102 327	MDSTBV 2,5/15-G1-5,08	1762635 329	ME 22,5 F-UT TBUS KMGY	2914835 667	ME 67,5 UT/FE BUS/5+2 KMGY	2200537 665
MDSTBA 2,5/ 7-G	1846564 327	MDSTBV 2,5/16-G1	1762981 329	ME 22,5 F-UT/FE GN	2854160 659	ME 67,5 UT/FE KMGY	2200535 661
MDSTBA 2,5/ 7-G-5,08	1842115 327	MDSTBV 2,5/16-G1-5,08	1762648 329	ME 22,5 F-UTG BUS/ 5 GN	2735988 663	ME 90 OT-1MSTBO KMGY	2200523 672
MDSTBA 2,5/ 8-G	1846577 327	MDSTBVA 2,5/ 2-G	1845785 331	ME 22,5 F-UTG BUS/ 5+2 GN	2706027 663	ME 90 UT TBUS KMGY	2200545 669
MDSTBA 2,5/ 8-G-5,08	1842128 327	MDSTBVA 2,5/ 2-G-5,08	1845332 331	ME 22,5 F-UTG BUS/10 GN	2736000 663	ME 90 UT/FE BUS/10 KMGY	2200540 665
MDSTBA 2,5/ 9-G	1846580 327	MDSTBVA 2,5/ 3-G	1845798 331	ME 22,5 F-UTG BUS/10+2 GN	2706043 663	ME 90 UT/FE BUS/10+2 KMGY	2200543 665
MDSTBA 2,5/ 9-G-5,08	1842131 327	MDSTBVA 2,5/ 3-G-5,08	1845345 331	ME 22,5 F-UTG GN	2854144 659	ME 90 UT/FE BUS/5+2 KMGY	2200538 665
MDSTBA 2,5/10-G	1846593 327	MDSTBVA 2,5/ 4-G	1845808 331	ME 22,5 F-UTG TBUS KMGY	2914851 667	ME 90 UT/FE KMGY	2200536 661
MDSTBA 2,5/10-G-5,08	1842144 327	MDSTBVA 2,5/ 4-G-5,08	1845358 331	ME 22,5 F-UTG/FE GN	2854157 659	ME B-12,5 3MSTBO GN	2709176 675
MDSTBA 2,5/11-G	1846603 327	MDSTBVA 2,5/ 5-G	1845811 331	ME 22,5 OT-1 MSTBO GN	2709558 671	ME B-12,5 3MSTBO KMGY	2279787 675
MDSTBA 2,5/11-G-5,08	1842157 327	MDSTBVA 2,5/ 5-G-5,08	1845361 331	ME 22,5 OT-1MSTBO KMGY	2914877 671	ME B-12,5 FKDSO KMGY	2200565 674
MDSTBA 2,5/12-G	1846616 327	MDSTBVA 2,5/ 6-G	1845824 331	ME 22,5 OT-1MSTBO SET	2707741 671	ME B-12,5 MKDSO GN	2906872 674
MDSTBA 2,5/12-G-5,08	1842160 327	MDSTBVA 2,5/ 6-G-5,08	1845374 331	ME 22,5 OT-3MSTBO GN	2735962 671	ME B-12,5 MSTBO GN	2906856 674
MDSTBV 2,5/ 2-G	1763032 330	MDSTBVA 2,5/ 7-G	1845837 331	ME 22,5 OT-3MSTBO KMGY	2914880 671	ME B-12,5 MSTBO KMGY	2854801 674
MDSTBV 2,5/ 2-G-5,08	1763074 330	MDSTBVA 2,5/ 7-G-5,08	1845387 331	ME 22,5 OT-3MSTBO SET	2707767 671	ME B-17,5 FKDSO KMGY	2200566 675
MDSTBV 2,5/ 2-GF	1846085 331	MDSTBVA 2,5/ 8-G	1845840 331	ME 22,5 OT-FKDSO KMGY	2200323 671	ME B-17,5 MKDSO GN	2906885 675
MDSTBV 2,5/ 2-GF-5,08	1845633 331	MDSTBVA 2,5/ 8-G-5,08	1845390 331	ME 22,5 OT-MKDSO SET	2907473 671	ME B-17,5 MKDSO KMGY	2854115 675
MDSTBV 2,5/ 3-G	1763045 330	MDSTBVA 2,5/ 9-G	1845853 331	ME 22,5 OT-MSTBO GN	2907169 671	ME B-17,5 MSTBO GN	2906869 675
MDSTBV 2,5/ 3-G-5,08	1763087 330	MDSTBVA 2,5/ 9-G-5,08	1845400 331	ME 22,5 OT-MSTBO KMGY	2907761 671	ME B-17,5 MSTBO KMGY	2853776 675
MDSTBV 2,5/ 3-G1	1736726 329	MDSTBVA 2,5/10-G	1845866 331	ME 22,5 OT-MSTBO SET	2907444 671	ME B-22,5 FKDSO KMGY	2200567 675
MDSTBV 2,5/ 3-G1-5,08	1736742 329	MDSTBVA 2,5/10-G-5,08	1845413 331	ME 22,5 OTP-MSTBO PS KMGY	2279282 671	ME B-22,5 MKDSO GN	2907143 675
MDSTBV 2,5/ 3-GF	1846098 331	MDSTBVA 2,5/11-G	1845879 331	ME 22,5 OTU-MKDSO GN	2278966 671	ME B-22,5 MKDSO KMGY	2908498 675
MDSTBV 2,5/ 3-GF-5,08	1845646 331	MDSTBVA 2,5/11-G-5,08	1845426 331	ME 22,5 OTU-MKDSO KMGY	2278953 671	ME B-22,5 MSTBO GN	2907156 675
MDSTBV 2,5/ 4-G	1845950 330	MDSTBVA 2,5/12-G	1845882 331	ME 22,5 PLATE-MSTBO KMGY	2279279 671	ME B-22,5 MSTBO KMGY	2907965 675
MDSTBV 2,5/ 4-G-5,08	1845507 330	MDSTBVA 2,5/12-G-5,08	1845439 331	ME 22,5 SF-UT GN	2708009 659	ME B-KA	2854173 692
MDSTBV 2,5/ 4-G1	1736739 329	MDSTBW 2,5/2-G	1802443 329	ME 22,5 TBUS 1,5/5-ST-3,81 KMGY	2713722 667	ME B-KA KMGY	2706302 692

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ME MAX 17,5 U-U1 KMGY	2713641 685	MICROFOX-P ESD	1212482 825	MKDS 1/5-3,5	1751277 85	MKDS 5N HV/11-ZB-6,35	1777639 445
ME MAX 22,5 2-2 KMGY	2713625 686	MICROFOX-PC	1212492 823	MKDS 1/5-3,81	1727049 85	MKDS 5N HV/12-ZB-6,35	1777642 445
ME MAX 22,5 3-3 KMGY	2713939 686	MICROFOX-PC ESD	1212483 825	MKDS 1/5-3,81 SMD BK	1727269 82	MKDSF 3/2	1712025 107
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ME MAX 35 LC 2-2 KMGY	2200597 687	MK3DS 1,5/ 3-5,08-BC	1706426 99	MKDS 1/9-3,81 SMD BK	1727298 82	MKDSFW 1,5/5-3,5	1868157 87
ME MAX 35 LC 3-3 KMGY	2200596 687	MK3DS 1/2-3,81	1727735 87	MKDS 1/10-3,5	1751329 85	MKDSFW 1,5/6-3,5	1868160 87
ME MAX 35 U-U1 KMGY	2713667 687	MK3DS 1/3-3,81	1727748 87	MKDS 1/10-3,81	1727094 85	MKDSFW 1,5/7-3,5	1868173 87
ME MAX 45 2-2 KMGY	2713706 688	MK3DS 1/4-3,81	1727751 87	MKDS 1/10-3,81 SMD BK	1727308 82	MKDSFW 1,5/8-3,5	1868186 87
ME MAX 45 3-3 KMGY	2713913 688	MK3DS 1/5-3,81	1727764 87	MKDS 1/11-3,5	1751332 85	MKDSFW 1,5/9-3,5	1868199 87
ME MAX 45 F G 3-3 KMGY	2869391 688	MK3DS 1/6-3,81	1727777 87	MKDS 1/11-3,81	1727104 85	MKDSFW 1,5/10-3,5	1868209 87
ME MAX 45 G 2-2 KMGY	2713719 688	MK3DS 1/7-3,81	1727780 87	MKDS 1/11-3,81 SMD BK	1727311 82	MKDSFW 1,5/11-3,5	1868212 87
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ME MAX 45 LC 3-3 KMGY	2890179 688	MK3DS 1/11-3,81	1727829 87	MKDS 1/13-3,5	1751358 85	MKDSN 1,5/2	1729018 91
ME MAX 45 SF G 2-2 KMGY	2869375 688	MK3DS 1/12-3,81	1727832 87	MKDS 1/14-3,5	1751361 85	MKDSN 1,5/2 HT BK	1985849 75
ME MAX 45 U-U1 KMGY	2713492 688	MK3DS 3/ 2-5,08	1723014 111	MKDS 1/15-3,5	1751374 85	MKDSN 1,5/2-5,08	1729128 91
ME MAX 6,2 SC 4-4 KMGY	2713094 682	MK3DS 3/ 3-5,08	1723027 111	MKDS 1/16-3,5	1751387 85	MKDSN 1,5/2-5,08 HT BK	1985865 75
ME MAX 6,2 SC-TBUS 4-4 KMGY	2869634 683	MK3DSH 3/ 2-5,08	1723182 111	MKDS 10 HV/ 1-B-10,16	1993776 453	MKDSN 1,5/3	1729021 91
ME MAX 6,2 SP 4-4 KMGY	2713104 683	MK3DSH 3/ 2-5,08-EX	1869774 157	MKDS 10 HV/ 1-F-10,16	1993763 453	MKDSN 1,5/3 HT BK	1985852 75
ME MAX 6,2 SP-TBUS 4-4 KMGY	2869647 683	MK3DSH 3/ 3-5,08	1723195 111	MKDS 10 HV/ 2-ZB-10,16	1709681 453	MKDSN 1,5/3-5,08	1729131 91
ME MAX 67,5 2-2 KMGY	2200524 689	MK3DSH 3/ 3-5,08-EX	1869787 157	MKDS 10 HV/ 3-ZB-10,16	1709694 453	MKDSN 1,5/3-5,08 HT BK	1985878 75
ME MAX 67,5 3-3 KMGY	2200526 689	MK3DSMH 3/ 2-5,08	1723205 111	MKDS 10 HV/ 4-ZB-10,16	1709704 453	MKDSN 1,5/ 4	1729034 91
ME MAX 67,5 G 2-2 KMGY	2200525 689	MK3DSMH 3/ 2-5,08-EX	1870255 157	MKDS 10 HV/ 5-ZB-10,16	1709717 453	MKDSN 1,5/ 4-5,08	1729144 91
ME MAX 67,5 G 3-3 KMGY	2200527 689	MK3DSMH 3/ 3-5,08	1723218 111	MKDS 10 HV/ 6-ZB-10,16	1709720 453	MKDSN 1,5/ 5	1729047 91
ME MAX 67,5 G U-U1 KMGY	2200528 689	MK3DSMH 3/ 3-5,08-EX	1870268 157	MKDS 10 HV/ 7-ZB-10,16	1709733 453	MKDSN 1,5/ 5-5,08	1729157 91
ME MAX 67,5 U-U1 KMGY	2200547 689	MK3DSN 1,5/ 2-5,08	1723289 93	MKDS 10 HV/8-ZB-10,16	1709746 453	MKDSN 1,5/6	1729050 91
ME MAX 90 2-2 KMGY	2200529 690	MK3DSN 1,5/ 3-5,08	1723292 93	MKDS 10 HV/9-ZB-10,16	1709759 453	MKDSN 1,5/6-5,08	1729160 91
ME MAX 90 3-3 KMGY	2200531 690	MK4DS 1,5/ 2-5,08	1868827 101	MKDS 10 HV/10-ZB-10,16	1709762 453	MKDSN 1,5/7	1729063 91
ME MAX 90 G 2-2 KMGY	2200530 690	MK4DS 1,5/ 2-5,08-A GNYE	1707001 101	MKDS 10 HV/11-ZB-10,16	1709775 453	MKDSN 1,5/7-5,08	1729173 91
ME MAX 90 G 3-3 KMGY	2200532 690	MK4DS 1,5/ 2-5,08-BCD	1706947 101	MKDS 10 HV/12-ZB-10,16	1709788 453	MKDSN 1,5/ 8	1729076 91
ME MAX 90 G U-U1 KMGY	2200533 690	MK4DS 1,5/ 3-5,08	1868830 101	MKDS 3/ 2	1711026 105	MKDSN 1,5/ 8-5,08	1729186 91
ME MAX 90 U-U1 KMGY	2200546 690	MK4DS 1,5/ 3-5,08-A GNYE	1707140 101	MKDS 3/ 2 HT BK	1985962 77	MKDSN 1,5/ 9	1729089 91
ME MAX B-12,5 KMGY	2914660 684	MK4DS 1,5/ 3-5,08-BCD	1706950 101	MKDS 3/ 2-5,08	1711725 105	MKDSN 1,5/ 9-5,08	1729199 91
ME MAX B-17,5 KMGY	2706959 685	MKDS 1,5/2	1715022 95	MKDS 3/ 2-5,08 HT BK	1985988 77	MKDSN 1,5/10	1729092 91
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ME MAX LP SAMPLE MSTBO 2-2	2713777 685	MKDS 1,5/2-5,08	1715721 95	MKDS 3/ 2-B-5,08 BK	1706455 105	MKDSN 1,5/11	1729102 91
ME MAX TBUS BS KMGY	2199650 685	MKDS 1,5/2-5,08 HT BK	1985904 75	MKDS 3/ 2-B-5,08 BU	1706439 105	MKDSN 1,5/11-5,08	1729212 91
ME MF 17,5	2908281 675	MKDS 1,5/2-B-5,08	1868733 97	MKDS 3/ 2-B-5,08 GNYE	1706471 105	MKDSN 1,5/12	1729115 91
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ME PLC 40 CS GY7035	2201490 733	MKDS 1,5/3-5,08	1715734 95	MKDS 3/ 3-B-5,08	1707917 105	MKDSN 2,5/ 3	1890976 103
ME PLC 40 CS TRANS	2201491 733	MKDS 1,5/3-5,08 HT BK	1985917 75	MKDS 3/ 3-B-5,08 BK	1706468 105	MKDSN 2,5/ 3 HT BK	1985933 77
ME PLC 40 CT10 GY7035	2201492 733	MKDS 1,5/3-B-5,08	1868746 97	MKDS 3/ 3-B-5,08 BU	1706442 105	MKDSN 2,5/ 3-5,08	1888690 103
ME PLC 40 CT20 GY7035	2201493 733	MKDS 1,5/3-B-5,08 BK	1868762 97	MKDS 3/ 3-B-5,08 GNYE	1706484 105	MKDSN 2,5/ 3-5,08 HT BK	1985959 77
ME PLC 40 CT36 GY7035	2201494 733	MKDS 1,5/3-B-5,08 BU	1707865 97	MKDS 3/ 3-EMG 15	1712698 709	MKDSN 2,5/ 4	1890989 103
ME PLC 40 CTRJ45 GY7035	2201495 733	MKDS 1,5/3-B-5,08 GNYE	1706361 97	MKDS 3/ 4	1711042 105	MKDSN 2,5/ 4-5,08	1888700 103
ME PLC 40 MT S BK	2201496 733	MKDS 1,5/ 4	1715048 95	MKDS 3/ 4-5,08	1712805 105	MKDSO 1,5/ 3-L-3,5 KMGY	2278445 89
ME PLC 40 PL S GY7035	2201497 733	MKDS 1,5/ 4-5,08	1715747 95	MKDS 5 HV/ 2-9,52	1902547 445	MKDSO 1,5/ 3-R-3,5 KMGY	2278458 89
ME PLC EBT GY7035	2201498 733	MKDS 1,5/ 8	1715080 95	MKDS 5 HV/ 2-9,52-Z	1907432 445	MKDSO 1,5/ 4-L-3,5 KMGY	2278432 89
ME PS-17,5 FMC TRANS	2279949 675	MKDS 1,5/ 8-5,08	1715789 95	MKDS 5 HV/ 3-9,52	1904150 445	MKDSO 1,5/ 4-R-3,5 KMGY	2278429 89

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MKDSO 1,5/5-R-3,5 KMGY	2278416 89	MKKDS 1/ 2-3,5	1751390 85	MSTB 2,5 HC/2-GF-5,08	1924088 497	MSTB 2,5/ 3-GF-5,08	1776511 314
MKDSO 2,5 HV/ 2L-7,5 KMGY	2199676 125	MKKDS 1/ 2-3,81	1708026 85	MSTB 2,5 HC/2-ST	1911855 490	MSTB 2,5/ 3-GF-5,08 EX	1795679 374
MKDSO 2,5 HV/ 2R-7,5 KMGY	2199773 125	MKKDS 1/ 3-3,5	1751400 85	MSTB 2,5 HC/2-ST-5,08	1911965 490	MSTB 2,5/ 3-ST	1754465 262
MKDSO 2,5 HV/ 3L-7,5 KMGY	2890946 125	MKKDS 1/ 3-3,81	1708039 85	MSTB 2,5 HC/ 2-STF	1912074 491	MSTB 2,5/3-ST-5,08	1757022 262
MKDSO 2,5 HV/ 3R-7,5 KMGY	2890959 125	MKKDS 1/ 4-3,5	1751413 85	MSTB 2,5 HC/ 2-STF-5,08	1912184 491	MSTB 2,5/3-ST-5,08-LR	1808899 263
MKDSO 2,5/2-L	1707205 113	MKKDS 1/ 4-3,81	1708042 85	MSTB 2,5 HC/ 3-GF	1923982 497	MSTB 2,5/3-STF	1786844 263
MKDSO 2,5/2-L KMGY	2915261 113	MKKDS 1/ 5-3,5	1751426 85	MSTB 2,5 HC/ 3-GF-5,08	1924091 497	MSTB 2,5/3-STF-5,08	1777992 263
MKDSO 2,5/2-R	1707195 113	MKKDS 1/ 5-3,81	1708055 85	MSTB 2,5 HC/3-ST	1911868 490	MSTB 2,5/ 3-STF-5,08 EX	1795569 369
MKDSO 2,5/2-R KMGY	2915258 113	MKKDS 1/ 6-3,5	1751439 85	MSTB 2,5 HC/3-ST-5,08	1911978 490	MSTB 2,5/ 3-STZ-5,08	1776168 263
MKDSO 2,5/3-6 SET KMGY	2713735 685	MKKDS 1/ 6-3,81	1708068 85	MSTB 2,5 HC/3-STF	1912087 491	MSTB 2,5/ 4-G	1754478 312
MKDSO 2,5/3-L	1707221 113	MKKDS 1/ 7-3,5	1751442 85	MSTB 2,5 HC/3-STF-5,08	1912197 491	MSTB 2,5/ 4-G-5,08	1759033 312
MKDSO 2,5/3-L KMGY	2854102 113	MKKDS 1/7-3,81	1708071 85	MSTB 2,5 HC/4-GF	1923995 497	MSTB 2,5/ 4-GF	1776715 314
MKDSO 2,5/3-R	1707218 113	MKKDS 1/8-3,5	1751455 85	MSTB 2,5 HC/4-GF-5,08	1924101 497	MSTB 2,5/ 4-GF-5,08	1776524 314
MKDSO 2,5/3-R KMGY	2854092 113	MKKDS 1/8-3,81	1708084 85	MSTB 2,5 HC/4-ST	1911871 490	MSTB 2,5/ 4-GF-5,08 EX	1795682 374
MKDSO 2,5/4-L	1707234 113	MKKDS 1/9-3,5	1751468 85	MSTB 2,5 HC/4-ST-5,08	1911981 490	MSTB 2,5/ 4-ST	1754481 262
MKDSO 2,5/4-L KMGY	2908485 113	MKKDS 1/9-3,81	1708107 85	MSTB 2,5 HC/ 4-STF	1912090 491	MSTB 2,5/ 4-ST-5,08	1757035 262
MKDSO 2,5/4-R	1707247 113	MKKDS 1/10-3,5	1751471 85	MSTB 2,5 HC/ 4-STF-5,08	1912207 491	MSTB 2,5/ 4-ST-5,08-LR	1808909 263
MKDSO 2,5/4-R KMGY	2908472 113	MKKDS 1/10-3,81	1708110 85	MSTB 2,5 HC/ 5-GF	1924004 497	MSTB 2,5/ 4-STF	1786857 263
MKDSO 2,5/4-6 SET KMGY	2713751 686	MKKDS 1/11-3,5	1751484 85	MSTB 2,5 HC/ 5-GF-5,08	1924114 497	MSTB 2,5/ 4-STF-5,08	1778001 263
MKDSP 1,5/2	1730010 95	MKKDS 1/11-3,81	1708123 85	MSTB 2,5 HC/5-ST	1911884 490	MSTB 2,5/ 4-STF-5,08 EX	1795572 369
MKDSP 1,5/2-5,08	1730120 95	MKKDS 1/12-3,5	1751497 85	MSTB 2,5 HC/5-ST-5,08	1911994 490	MSTB 2,5/ 4-STZ	1739114 263
MKDSP 1,5/3	1730023 95	MKKDS 1/12-3,81	1708136 85	MSTB 2,5 HC/5-STF	1912100 491	MSTB 2,5/ 4-STZ-5,08	1776155 263
MKDSP 1,5/3-5,08	1730133 95	MKKDS 1/13-3,5	1751507 85	MSTB 2,5 HC/5-STF-5,08	1912210 491	MSTB 2,5/ 5-G	1754494 312
MKDSP 1,5/ 4	1730036 95	MKKDS 1/14-3,5	1751510 85	MSTB 2,5 HC/ 6-GF	1924017 497	MSTB 2,5/5-G-5,08	1759046 312
MKDSP 1,5/ 4-5,08	1730146 95	MKKDS 1/15-3,5	1751523 85	MSTB 2,5 HC/ 6-GF-5,08	1924127 497	MSTB 2,5/5-GF	1776728 314
MKDSP 1,5/ 5	1730049 95	MKKDS 1/16-3,5	1751536 85	MSTB 2,5 HC/ 6-ST	1911897 490	MSTB 2,5/5-GF-5,08	1776537 314
MKDSP 1,5/ 5-5,08	1730159 95	MKKDS 3/ 2	1721029 109	MSTB 2,5 HC/ 6-ST-5,08	1912003 490	MSTB 2,5/5-GF-5,08 EX	1795695 374
MKDSP 1,5/6	1730052 95	MKKDS 3/ 2-5,08	1721728 109	MSTB 2,5 HC/6-STF	1912113 491	MSTB 2,5/5-ST	1754504 262
MKDSP 1,5/6-5,08	1730162 95	MKKDS 3/ 3	1721032 109	MSTB 2,5 HC/6-STF-5,08	1912223 491	MSTB 2,5/5-ST-5,08	1757048 262
MKDSP 1,5/7	1730065 95	MKKDS 3/ 3-5,08	1721731 109	MSTB 2,5 HC/7-GF	1924020 497	MSTB 2,5/5-ST-5,08-LR	1808912 263
MKDSP 1,5/7-5,08	1730175 95	MKKDS 5/ 2-6,35	1719031 449	MSTB 2,5 HC/7-GF-5,08	1924130 497	MSTB 2,5/5-STF	1786860 263
MKDSP 1,5/ 8	1730078 95	MKKDS 5/ 2-9,5	1719015 449	MSTB 2,5 HC/7-ST	1911907 490	MSTB 2,5/5-STF-5,08	1778014 263
MKDSP 1,5/ 8-5,08	1730188 95	MKKDS 5/ 3-6,35	1719044 449	MSTB 2,5 HC/7-ST-5,08	1912016 490	MSTB 2,5/5-STF-5,08 EX	1795585 369
MKDSP 1,5/ 9	1730081 95	MKKDS 5/ 3-9,5	1719028 449	MSTB 2,5 HC/7-STF	1912126 491	MSTB 2,5/5-STZ-5,08	1776142 263
MKDSP 1,5/ 9-5,08	1730191 95	MKKDSG 3/ 2	1721090 109	MSTB 2,5 HC/7-STF-5,08	1912236 491	MSTB 2,5/6-G	1754517 312
MKDSP 1,5/10	1730094 95	MKKDSG 3/3	1721087 109	MSTB 2,5 HC/8-GF	1924033 497	MSTB 2,5/6-G-5,08	1759059 312
MKDSP 1,5/10-5,08	1730201 95	MKKDSH 3/2	1721045 109	MSTB 2,5 HC/8-GF-5,08	1924143 497	MSTB 2,5/6-GF	1776731 314
MKDSP 1,5/11	1730104 95	MKKDSH 3/2-EX	1869790 157	MSTB 2,5 HC/8-ST	1911910 490	MSTB 2,5/6-GF-5,08	1776540 314
MKDSP 1,5/11-5,08	1730214 95	MKKDSH 3/3	1721346 109	MSTB 2,5 HC/8-ST-5,08	1912029 490	MSTB 2,5/6-GF-5,08 EX	1795705 374
MKDSP 1,5/12	1730117 95	MKKDSH 3/ 3-EX	1869800 157	MSTB 2,5 HC/ 8-STF	1912139 491	MSTB 2,5/ 6-ST	1754520 262
MKDSP 1,5/12-5,08	1730227 95	MKKDSH 3/ 8	1703283 719	MSTB 2,5 HC/ 8-STF-5,08	1912249 491	MSTB 2,5/ 6-ST-5,08	1757051 262
MKDSP 10HV/2-10,16	1929517 451	MKKDSN 1,5/ 2	1726037 93	MSTB 2,5 HC/ 9-GF	1924046 497	MSTB 2,5/ 6-ST-5,08-LR	1808925 263
MKDSP 10HV/2-12,7	1929533 451	MKKDSN 1,5/ 2-5,08	1726040 93	MSTB 2,5 HC/ 9-GF-5,08	1924156 497	MSTB 2,5/ 6-STF	1786873 263
MKDSP 10HV/3-10,16	1929520 451	MKKDSN 1,5/ 3	1726053 93	MSTB 2,5 HC/9-ST	1911923 490	MSTB 2,5/ 6-STF-5,08	1778027 263
MKDSP 10HV/3-12,7	1929546 451	MKKDSN 1,5/ 3-5,08	1726066 93	MSTB 2,5 HC/9-ST-5,08	1912032 490	MSTB 2,5/ 6-STF-5,08 EX	1795598 369
MKDSP 10N/2-10,16	1773976 451	MKKDSN 1,5/ 4	1726118 93	MSTB 2,5 HC/9-STF	1912142 491	MSTB 2,5/ 6-STZ-5,08	1776126 263
MKDSP 10N/3-10,16	1774137 451	MKKDSN 1,5/ 4-5,08	1726163 93	MSTB 2,5 HC/9-STF-5,08	1912252 491	MSTB 2,5/ 7-G	1754533 312
MKDSP 25/ 1-15,00-FL	1932575 455	MKKDSN 1,5/5	1726121 93	MSTB 2,5 HC/10-GF	1924059 497	MSTB 2,5/7-G-5,08	1759062 312
MKDSP 25/ 2-15,00	1932588 455	MKKDSN 1,5/5-5,08	1726176 93	MSTB 2,5 HC/10-GF-5,08	1924169 497	MSTB 2,5/7-GF	1776744 314
MKDSP 25/ 2-15,00-F	1932494 455	MKKDSN 1,5/6	1726134 93	MSTB 2,5 HC/10-ST	1911936 490	MSTB 2,5/7-GF-5,08	1776553 314
MKDSP 25/ 3-15,00	1932591 455	MKKDSN 1,5/6-5,08	1726189 93	MSTB 2,5 HC/10-ST-5,08	1912045 490	MSTB 2,5/7-GF-5,08 EX	1795718 374
MKDSP 25/ 3-15,00-F	1932504 455	MKKDSN 1,5/7	1726147 93	MSTB 2,5 HC/10-STF	1912155 491	MSTB 2,5/7-ST	1754546 262
MKDSP 25/ 4-15,00	1932601 455	MKKDSN 1,5/7-5,08	1726192 93	MSTB 2,5 HC/10-STF-5,08	1912265 491	MSTB 2,5/7-ST-5,08	1757064 262
MKDSP 25/ 4-15,00-F	1932517 455	MKKDSN 1,5/8	1726150 93	MSTB 2,5 HC/11-GF	1924062 497	MSTB 2,5/7-ST-5,08-LR	1808938 263
MKDSP 25/ 5-15,00	1932614 455	MKKDSN 1,5/8-5,08	1726202 93	MSTB 2,5 HC/11-GF-5,08	1924172 497	MSTB 2,5/7-STF	1786886 263
MKDSP 25/ 5-15,00-F	1932520 455	MKKDSNH 1,5/ 2-5,08	1731828 93	MSTB 2,5 HC/11-ST	1911949 490	MSTB 2,5/7-STF-5,08	1778030 263
MKDSP 25/ 6-15,00	1932627 455	MKKDSNH 1,5/ 3-5,08	1731831 93	MSTB 2,5 HC/11-ST-5,08	1912058 490	MSTB 2,5/7-STF-5,08 EX	1795608 369
MKDSP 25/ 6-15,00-F	1932533 455	MKKDSNH 1,5/ 4-5,08	1731857 93	MSTB 2,5 HC/11-STF	1912168 491	MSTB 2,5/7-STZ-5,08	1776113 263
MKDSP 25/ 7-15,00	1932630 455	MPS-IH BK	0201731 831	MSTB 2,5 HC/11-STF-5,08	1912278 491	MSTB 2,5/8-G	1754559 312
MKDSP 25/ 7-15,00-F	1932546 455	MPS-IH BU	0201689 831	MSTB 2,5 HC/12-GF	1924075 497	MSTB 2,5/8-G-5,08	1759075 312
MKDSP 25/ 8-15,00	1932643 455	MPS-IH GN	0201702 831	MSTB 2,5 HC/12-GF-5,08	1924185 497	MSTB 2,5/8-GF	1776757 314
MKDSP 25/ 8-15,00-F	1932559 455	MPS-IH GY	0201728 831	MSTB 2,5 HC/12-ST	1911952 490	MSTB 2,5/8-GF-5,08	1776566 314
MKDSP 25/ 9-15,00	1932656 455	MPS-IH RD	0201676 831	MSTB 2,5 HC/12-ST-5,08	1912061 490	MSTB 2,5/8-GF-5,08 EX	1795721 374
MKDSP 25/ 9-15,00-F	1932562 455	MPS-IH WH	0201663 831	MSTB 2,5 HC/12-STF	1912171 491	MSTB 2,5/8-ST	1754562 262
MKDSP 3/ 2	1714023 105	MPS-IH YE	0201692 831	MSTB 2,5 HC/12-STF-5,08	1912281 491	MSTB 2,5/8-ST-5,08	1757077 262
MKDSP 3/ 2-5,08	1714722 105	MPS-MT	0201744 831	MSTB 2,5/2-G	1754436 312	MSTB 2,5/8-ST-5,08-LR	1808941 263
MKDSP 3/ 3	1714036 105	MPS-MT 1-S	1944372 831	MSTB 2,5/2-G-5,08	1759017 312	MSTB 2,5/8-STF	1786899 263
MKDSP 3/ 3-5,08	1714735 105	MPS-MT 1-S4-B RD	1982800 831	MSTB 2,5/ 2-GF	1776692 314	MSTB 2,5/8-STF-5,08	1778043 263
MKDSV 5 HV/ 2-9,52	1904147 445	MPT 0,5/ 2-2,54	1725656 83	MSTB 2,5/ 2-GF-5,08	1776508 314	MSTB 2,5/8-STF-5,08 EX	1795611 369
MKDSV 5 HV/ 2-9,52-Z	1907416 445	MPT 0,5/ 3-2,54	1725669 83	MSTB 2,5/ 2-GF-5,08 EX	1795666 374	MSTB 2,5/8-STZ	1758982 263
MKDSV 5/ 2-6,35	1710056 443	MPT 0,5/ 4-2,54	1725672 83	MSTB 2,5/ 2-ST	1754449 262	MSTB 2,5/8-STZ-5,08	1764235 263
MKDSV 5/2-7,62	1907131 443	MPT 0,5/ 5-2,54	1725685 83	MSTB 2,5/ 2-ST-5,08	1757019 262	MSTB 2,5/ 9-G	1754575 312
MKDSV 5/2-9,5	1710072 443	MPT 0,5/ 6-2,54	1725698 83	MSTB 2,5/ 2-ST-5,08-LR	1808886 263	MSTB 2,5/ 9-G-5,08	1759088 312
MKDSV 5/3-6,35	1710085 443	MPT 0,5/ 7-2,54	1725708 83	MSTB 2,5/ 2-STF	1786831 263	MSTB 2,5/ 9-GF	1776760 314
MKDSV 5/3-7,62	1907144 443	MPT 0,5/ 8-2,54	1725711 83	MSTB 2,5/ 2-STF-5,08	1777989 263	MSTB 2,5/ 9-GF-5,08	1776579 314
MKDSV 5/3-9,5	1710069 443	MPT 0,5/ 9-2,54	1725724 83	MSTB 2,5/ 2-STF-5,08 EX	1795556 369	MSTB 2,5/9-GF-5,08 EX	1795734 374
MKKDS 1,5/2	1725012 97	MPT 0,5/10-2,54	1725737 83	MSTB 2,5/ 2-STZ-5,08	1709791 263	MSTB 2,5/9-ST	1754588 262
MKKDS 1,5/2-5,08	1725038 97	MPT 0,5/11-2,54	1725740 83	MSTB 2,5/ 3-G	1754452 312	MSTB 2,5/9-ST-5,08	1757080 262
MKKDS 1,5/3	1725025 97	MPT 0,5/12-2,54	1725753 83	MSTB 2,5/ 3-G-5,08	1759020 312	MSTB 2,5/9-ST-5,08-LR	1808954 263

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MSTB 2,5/9-STF-5,08	1778056 263	MSTB 2,5/16-ST	1754724 262	MSTBA 2,5/10-G-5,08	1757323 313	MSTBC 2,5/12-STZF-5,08	1809831 295
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MSTB 2,5/9-STZ	1758995 263	MSTB 2,5/16-ST-5,08-LR	1809021 263	MSTBA 2,5/10-G-5,08-RN	1926099 313	MSTBC 2,5/13-STZ-5,08	1809611 295
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MSTB 2,5/10-G	1754591 312	MSTB 2,5/16-STF-5,08	1778124 263	MSTBA 2,5/10-G-RN	1944864 313	MSTBC 2,5/13-STZF-5,08	1809844 295
MSTB 2,5/10-G-5,08	1759091 312	MSTB 2,5/16-STZ	1759392 263	MSTBA 2,5/11-G	1757556 313	MSTBC 2,5/14-ST-5,08	1808939 294
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MSTB 2,5/10-GF-5,08	1776582 314	MSTB-BF	1759981 836	MSTBA 2,5/11-G-5,08-LR	1809160 315	MSTBC 2,5/14-STZ-5,08-R	1809161 295
MSTB 2,5/10-GF-5,08 EX	1795747 374	MSTB-BL	1755477 837	MSTBA 2,5/11-G-5,08-RN	1926109 313	MSTBC 2,5/14-STZF-5,08	1809857 295
MSTB 2,5/10-ST	1754601 262	MSTBA 2,5 HC/ 2-G	1923759 496	MSTBA 2,5/11-G-5,08-RN EX	1796526 375	MSTBC 2,5/15-ST-5,08	1808942 294
MSTB 2,5/10-ST-5,08	1757093 262	MSTBA 2,5 HC/ 2-G-5,08	1923869 496	MSTBA 2,5/11-G-RN	1944877 313	MSTBC 2,5/15-STZ-5,08	1809637 295
MSTB 2,5/10-ST-5,08-LR	1808967 263	MSTBA 2,5 HC/ 3-G	1923762 496	MSTBA 2,5/12-G	1757569 313	MSTBC 2,5/15-STZ-5,08-R	1809174 295
MSTB 2,5/10-STF	1786912 263	MSTBA 2,5 HC/ 3-G-5,08	1923872 496	MSTBA 2,5/12-G-5,08	1757349 313	MSTBC 2,5/15-STZF-5,08	1809860 295
MSTB 2,5/10-STF-5,08	1778069 263	MSTBA 2,5 HC/ 4-G	1923775 496	MSTBA 2,5/12-G-5,08-LR	1809173 315	MSTBC 2,5/16-ST-5,08	1808955 294
MSTB 2,5/10-STF-5,08 EX	1795637 369	MSTBA 2,5 HC/ 4-G-5,08	1923885 496	MSTBA 2,5/12-G-5,08-RN	1926112 313	MSTBC 2,5/16-STZ-5,08	1809640 295
MSTB 2,5/10-STZ	1759004 263	MSTBA 2,5 HC/ 5-G	1923788 496	MSTBA 2,5/12-G-5,08-RN EX	1796539 375	MSTBC 2,5/16-STZ-5,08-R	1809187 295
MSTB 2,5/10-STZ-5,08	1764303 263	MSTBA 2,5 HC/ 5-G-5,08	1923898 496	MSTBA 2,5/12-G-RN	1944880 313	MSTBC 2,5/16-STZF-5,08	1809873 295
MSTB 2,5/11-G	1754614 312	MSTBA 2,5 HC/ 6-G	1923791 496	MSTBA 2,5/13-G	1757572 313	MSTBC-MT 0,5-1,0	3190564 827
MSTB 2,5/11-G-5,08	1759101 312	MSTBA 2,5 HC/ 6-G-5,08	1923908 496	MSTBA 2,5/13-G-5,08	1757352 313	MSTBC-MT 0,5-1,0 BA	3190645 827
MSTB 2,5/11-GF	1776786 314	MSTBA 2,5 HC/ 7-G	1923801 496	MSTBA 2,5/13-G-5,08-LR	1809186 315	MSTBC-MT 1,5-2,5	3190551 827
MSTB 2,5/11-GF-5,08	1776595 314	MSTBA 2,5 HC/ 7-G-5,08	1923911 496	MSTBA 2,5/13-G-5,08-RN	1926125 313	MSTBC-MT 1,5-2,5 BA	3190658 827
MSTB 2,5/11-GF-5,08 EX	1795750 374	MSTBA 2,5 HC/ 8-G	1923814 496	MSTBA 2,5/13-G-RN	1944893 313	MSTBHK 2,5/10-G	1765085 358
MSTB 2,5/11-ST	1754627 262	MSTBA 2,5 HC/ 8-G-5,08	1923924 496	MSTBA 2,5/14-G	1757585 313	MSTBHK 2,5/10-G-5,08	1765030 358
MSTB 2,5/11-ST-5,08	1757103 262	MSTBA 2,5 HC/ 9-G	1923827 496	MSTBA 2,5/14-G-5,08	1757365 313	MSTBO 2,5/2-G1L	1861057 322
MSTB 2,5/11-ST-5,08-LR	1808970 263	MSTBA 2,5 HC/ 9-G-5,08	1923937 496	MSTBA 2,5/14-G-5,08-LR	1809199 315	MSTBO 2,5/2-G1L KMGY	2854788 323
MSTB 2,5/11-STF	1786925 263	MSTBA 2,5 HC/10-G	1923830 496	MSTBA 2,5/14-G-5,08-RN	1926138 313	MSTBO 2,5/2-G1L THRR32 BK	2200251 308
MSTB 2,5/11-STF-5,08	1778072 263	MSTBA 2,5 HC/10-G-5,08	1923940 496	MSTBA 2,5/14-G-RN	1944903 313	MSTBO 2,5/2-G1PL GY7035	2200330 325
MSTB 2,5/11-STF-5,08 EX	1795640 369	MSTBA 2,5 HC/11-G	1923843 496	MSTBA 2,5/15-G	1757598 313	MSTBO 2,5/2-G1PR GY7035	2200331 325
MSTB 2,5/11-STZ	1759347 263	MSTBA 2,5 HC/11-G-5,08	1923953 496	MSTBA 2,5/15-G-5,08	1757378 313	MSTBO 2,5/2-G1R	1861044 323
MSTB 2,5/11-STZ-5,08	1764293 263	MSTBA 2,5 HC/12-G	1923856 496	MSTBA 2,5/15-G-5,08-LR	1809209 315	MSTBO 2,5/2-G1R KMGY	2854791 323
MSTB 2,5/12-G	1754630 312	MSTBA 2,5 HC/12-G-5,08	1923966 496	MSTBA 2,5/15-G-5,08-RN	1926141 313	MSTBO 2,5/2-G1R THRR32 BK	2200252 309
MSTB 2,5/12-G-5,08	1759114 312	MSTBA 2,5/ 2-G	1757475 313	MSTBA 2,5/15-G-RN	1944916 313	MSTBO 2,5/3 G1L THRR44 BK	2915216 308
MSTB 2,5/12-GF	1776799 314	MSTBA 2,5/ 2-G-5,08	1757242 313	MSTBA 2,5/16-G	1757608 313	MSTBO 2,5/3 G1R THRR44 BK	2915229 309
MSTB 2,5/12-GF-5,08	1776605 314	MSTBA 2,5/ 2-G-5,08-LR	1809076 315	MSTBA 2,5/16-G-5,08	1757381 313	MSTBO 2,5/3-6 ST SET KMGY	2713748 685
MSTB 2,5/12-GF-5,08 EX	1795763 374	MSTBA 2,5/ 2-G-5,08-RN	1926015 313	MSTBA 2,5/16-G-5,08-LR	1809212 315	MSTBO 2,5/3-G1L	1861028 322
MSTB 2,5/12-ST	1754643 262	MSTBA 2,5/ 2-G-5,08-RN EX	1796432 375	MSTBA 2,5/16-G-5,08-RN	1926154 313	MSTBO 2,5/3-G1L KMGY	2853750 323
MSTB 2,5/12-ST-5,08	1757116 262	MSTBA 2,5/ 2-G-RN	1944783 313	MSTBA 2,5/16-G-RN	1944929 313	MSTBO 2,5/3-G1PL GY7035	2200328 325
MSTB 2,5/12-ST-5,08-LR	1808983 263	MSTBA 2,5/ 3-G	1757488 313	MSTBC 2,5/ 2-ST-5,08	1808816 294	MSTBO 2,5/3-G1PR GY7035	2200329 325
MSTB 2,5/12-STF	1786938 263	MSTBA 2,5/ 3-G-5,08	1757255 313	MSTBC 2,5/ 2-STZ-5,08	1809501 295	MSTBO 2,5/3-G1R	1861031 323
MSTB 2,5/12-STF-5,08	1778085 263	MSTBA 2,5/ 3-G-5,08-LR	1809089 315	MSTBC 2,5/2-STZ-5,08-R	1809048 295	MSTBO 2,5/3-G1R KMGY	2853763 323
MSTB 2,5/12-STF-5,08 EX	1795653 369	MSTBA 2,5/ 3-G-5,08-RN	1926028 313	MSTBC 2,5/2-STZF-5,08	1809734 295	MSTBO 2,5/3-GL-5,08	1850440 320
MSTB 2,5/12-STZ	1759350 263	MSTBA 2,5/ 3-G-5,08-RN EX	1796445 375	MSTBC 2,5/3-ST-5,08	1808829 294	MSTBO 2,5/3-GR-5,08	1847110 321
MSTB 2,5/12-STZ-5,08	1764280 263	MSTBA 2,5/ 3-G-RN	1944796 313	MSTBC 2,5/3-STZ-5,08	1809514 295	MSTBO 2,5/4-G1L	1861060 322
MSTB 2,5/13-G	1754656 312	MSTBA 2,5/ 4-G	1757491 313	MSTBC 2,5/3-STZ-5,08-R	1809051 295	MSTBO 2,5/4-G1L KMGY	2907774 323
MSTB 2,5/13-G-5,08	1759127 312	MSTBA 2,5/ 4-G-5,08	1757268 313	MSTBC 2,5/3-STZF-5,08	1809747 295	MSTBO 2,5/4-G1L THRR44 BK	2697194 308
MSTB 2,5/13-GF	1776809 314	MSTBA 2,5/ 4-G-5,08-LR	1809092 315	MSTBC 2,5/4-ST-5,08	1808832 294	MSTBO 2,5/4-G1PL GY7035	2200325 325
MSTB 2,5/13-GF-5,08	1776618 314	MSTBA 2,5/ 4-G-5,08-RN	1926031 313	MSTBC 2,5/4-STZ-5,08	1809527 295	MSTBO 2,5/4-G1PR GY7035	2200326 325
MSTB 2,5/13-ST	1754669 262	MSTBA 2,5/ 4-G-5,08-RN EX	1796458 375	MSTBC 2,5/ 4-STZ-5,08-R	1809064 295	MSTBO 2,5/4-G1R	1861073 323
MSTB 2,5/13-ST-5,08	1757129 262	MSTBA 2,5/ 4-G-RN	1944806 313	MSTBC 2,5/ 4-STZF-5,08	1809750 295	MSTBO 2,5/4-G1R KMGY	2907787 323
MSTB 2,5/13-ST-5,08-LR	1808996 263	MSTBA 2,5/ 5-G	1757501 313	MSTBC 2,5/ 5-ST-5,08	1808845 294	MSTBO 2,5/4-G1R THRR44 BK	2697204 309
MSTB 2,5/13-STF	1786941 263	MSTBA 2,5/ 5-G-5,08	1757271 313	MSTBC 2,5/ 5-STZ-5,08	1809530 295	MSTBO 2,5/4-GL-5,08	1850453 320
MSTB 2,5/13-STF-5,08	1778098 263	MSTBA 2,5/ 5-G-5,08-LR	1809102 315	MSTBC 2,5/5-STZ-5,08-R	1809077 295	MSTBO 2,5/ 4-GR-5,08	1847123 321
MSTB 2,5/13-STZ	1759363 263	MSTBA 2,5/ 5-G-5,08-RN	1926044 313	MSTBC 2,5/5-STZF-5,08	1809763 295	MSTBO 2,5/ 5-GL-5,08	1850466 320
MSTB 2,5/13-STZ-5,08	1764277 263	MSTBA 2,5/ 5-G-5,08-RN EX	1796461 375	MSTBC 2,5/6-ST-5,08	1808858 294	MSTBO 2,5/ 5-GR-5,08	1847136 321
MSTB 2,5/14-G	1754672 312	MSTBA 2,5/ 5-G-RN	1944819 313	MSTBC 2,5/6-STZ-5,08	1809543 295	MSTBO 2,5/ 6-GL-5,08	1850479 320
MSTB 2,5/14-G-5,08	1759130 312	MSTBA 2,5/ 6-G	1757514 313	MSTBC 2,5/6-STZ-5,08-R	1809080 295	MSTBO 2,5/6-GR-5,08	1847149 321
MSTB 2,5/14-GF	1776812 314	MSTBA 2,5/ 6-G-5,08	1757284 313	MSTBC 2,5/6-STZF-5,08	1809776 295	MSTBO 2,5/7-GL-5,08	1850482 320
MSTB 2,5/14-GF-5,08	1776621 314	MSTBA 2,5/ 6-G-5,08-LR	1809115 315	MSTBC 2,5/7-ST-5,08	1808861 294	MSTBO 2,5/7-GR-5,08	1847152 321
MSTB 2,5/14-ST	1754685 262	MSTBA 2,5/ 6-G-5,08-RN	1926057 313	MSTBC 2,5/7-STZ-5,08	1809556 295	MSTBO 2,5/8-GL-5,08	1850495 320
MSTB 2,5/14-ST-5,08	1757132 262	MSTBA 2,5/ 6-G-5,08-RN EX	1796474 375	MSTBC 2,5/ 7-STZ-5,08-R	1809093 295	MSTBO 2,5/8-GR-5,08	1847165 321
MSTB 2,5/14-ST-5,08-LR	1809005 263	MSTBA 2,5/ 6-G-RN	1944822 313	MSTBC 2,5/ 7-STZF-5,08	1809789 295	MSTBO 2,5/4-6 ST SET KMGY	2713764 686
MSTB 2,5/14-STF	1786954 263	MSTBA 2,5/ 7-G	1755493 313	MSTBC 2,5/ 8-ST-5,08	1808874 294	MSTBP 2,5/2-ST	1765771 264
MSTB 2,5/14-STF-5,08	1778108 263	MSTBA 2,5/ 7-G-5,08	1757297 313	MSTBC 2,5/ 8-STZ-5,08	1809569 295	MSTBP 2,5/2-ST-5,08	1769010 264
MSTB 2,5/14-STZ	1759376 263	MSTBA 2,5/ 7-G-5,08-LR	1809128 315	MSTBC 2,5/8-STZ-5,08-R	1809103 295	MSTBP 2,5/ 3-ST	1765784 264
MSTB 2,5/14-STZ-5,08	1764264 263	MSTBA 2,5/ 7-G-5,08-RN	1926060 313	MSTBC 2,5/8-STZF-5,08	1809792 295	MSTBP 2,5/ 3-ST-5,08	1769023 264
MSTB 2,5/15-G	1754698 312	MSTBA 2,5/ 7-G-5,08-RN EX	1796487 375	MSTBC 2,5/9-ST-5,08	1808887 294	MSTBP 2,5/ 4-ST	1765797 264
MSTB 2,5/15-G-5,08	1759143 312	MSTBA 2,5/ 7-G-RN	1944835 313	MSTBC 2,5/9-STZ-5,08	1809572 295	MSTBP 2,5/ 4-ST-5,08	1769036 264
MSTB 2,5/15-GF	1776825 314	MSTBA 2,5/ 8-G	1757527 313	MSTBC 2,5/ 9-STZ-5,08-R	1809116 295	MSTBP 2,5/ 5-ST	1765807 264
MSTB 2,5/15-GF-5,08	1776634 314	MSTBA 2,5/ 8-G-5,08	1757307 313	MSTBC 2,5/ 9-STZF-5,08	1809802 295	MSTBP 2,5/ 5-ST-5,08	1769049 264
MSTB 2,5/15-ST	1754708 262	MSTBA 2,5/ 8-G-5,08-LR	1809131 315	MSTBC 2,5/10-ST-5,08	1808890 294	MSTBP 2,5/ 6-ST	1765810 264
MSTB 2,5/15-ST-5,08	1757145 262	MSTBA 2,5/ 8-G-5,08-RN	1926073 313	MSTBC 2,5/10-STZ-5,08	1809585 295	MSTBP 2,5/ 6-ST-5,08	1769052 264
MSTB 2,5/15-ST-5,08-LR	1809018 263	MSTBA 2,5/ 8-G-5,08-RN EX	1796490 375	MSTBC 2,5/10-STZ-5,08-R	1809129 295	MSTBP 2,5/ 7-ST	1765823 264
MSTB 2,5/15-STF	1786967 263	MSTBA 2,5/ 8-G-RN	1944848 313	MSTBC 2,5/10-STZF-5,08	1809815 295	MSTBP 2,5/ 7-ST-5,08	1769065 264
MSTB 2,5/15-STF-5,08	1778111 263	MSTBA 2,5/ 9-G	1757530 313	MSTBC 2,5/11-ST-5,08	1808900 294	MSTBP 2,5/ 8-ST	1765836 264
MSTB 2,5/15-STZ	1759389 263	MSTBA 2,5/ 9-G-5,08	1757310 313	MSTBC 2,5/11-STZ-5,08	1809598 295	MSTBP 2,5/ 8-ST-5,08	1769078 264
MSTB 2,5/15-STZ-5,08	1764251 263	MSTBA 2,5/9-G-5,08-LR	1809144 315	MSTBC 2,5/11-STZ-5,08-R	1809132 295	MSTBP 2,5/ 9-ST	1765849 264
MSTB 2,5/16-G	1754711 312	MSTBA 2,5/9-G-5,08-RN	1926086 313	MSTBC 2,5/11-STZF-5,08	1809828 295	MSTBP 2,5/ 9-ST-5,08	1769081 264
MSTB 2,5/16-G-5,08	1759156 312	MSTBA 2,5/9-G-5,08-RN EX	1796500 375	MSTBC 2,5/12-ST-5,08	1808913 294	MSTBP 2,5/10-ST	1765852 264
MSTB 2,5/16-GF	1776838 314	MSTBA 2,5/9-G-RN	1944851 313	MSTBC 2,5/12-STZ-5,08	1809608 295	MSTBP 2,5/10-ST-5,08	1769094 264

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MSTBP 2,5/11-ST	1765865 264	MSTBT 2,5/15-STF	1919844 265	MSTBV 2,5/8-G-5,08	1758076 315	MSTBVA 2,5/ 3-G-5,08-LR	1809270 317
MSTBP 2,5/11-ST-5,08	1769104 264	MSTBT 2,5/15-STF-5,08	1805424 265	MSTBV 2,5/8-GEH-5,08	1808528 317	MSTBVA 2,5/ 3-G-5,08-RN	1936021 316
MSTBP 2,5/12-ST	1765878 264	MSTBT 2,5/16-ST	1779974 265	MSTBV 2,5/8-GF	1776948 317	MSTBVA 2,5/ 3-G-5,08-RN EX	1796568 375
MSTBP 2,5/12-ST-5,08	1769117 264	MSTBT 2,5/16-ST-5,08	1781124 265	MSTBV 2,5/8-GF-5,08	1777138 317	MSTBVA 2,5/ 3-G-RN	1944602 316
MSTBP 2,5/13-ST	1765881 264	MSTBT 2,5/16-STF	1919857 265	MSTBV 2,5/ 8-GF-5,08 EX	1796380 375	MSTBVA 2,5/4-G	1755532 315
MSTBP 2,5/13-ST-5,08	1769120 264	MSTBT 2,5/16-STF-5,08	1805437 265	MSTBV 2,5/ 9-G	1753576 315	MSTBVA 2,5/4-G-5,08	1755752 315
MSTBP 2,5/14-ST	1765894 264	MSTBU 2,5/ 2-STD-5,08	1824120 356	MSTBV 2,5/ 9-G-5,08	1758089 315	MSTBVA 2,5/4-G-5,08-LR	1809283 317
MSTBP 2,5/14-ST-5,08	1769133 264	MSTBU 2,5/ 3-STD-5,08	1824133 356	MSTBV 2,5/ 9-GEH-5,08	1808531 317	MSTBVA 2,5/4-G-5,08-RN	1936034 316
MSTBP 2,5/15-ST	1765904 264	MSTBU 2,5/ 4-STD-5,08	1824146 356	MSTBV 2,5/ 9-GF	1776951 317	MSTBVA 2,5/ 4-G-5,08-RN EX	1796571 375
MSTBP 2,5/15-ST-5,08	1769146 264	MSTBU 2,5/ 5-STD-5,08	1824159 356	MSTBV 2,5/ 9-GF-5,08	1777141 317	MSTBVA 2,5/ 4-G-RN	1944615 316
MSTBP 2,5/16-ST	1765917 264	MSTBU 2,5/ 6-STD-5,08	1824162 356	MSTBV 2,5/ 9-GF-5,08 EX	1796393 375	MSTBVA 2,5/ 5-G	1755545 315
MSTBP 2,5/16-ST-5,08	1769159 264	MSTBU 2,5/ 7-STD-5,08	1824175 356	MSTBV 2,5/10-G	1753592 315	MSTBVA 2,5/ 5-G-5,08	1755765 315
MSTBT 2,5 HC/2-ST	1926358 491	MSTBU 2,5/8-STD-5,08	1824188 356	MSTBV 2,5/10-G-5,08	1758092 315	MSTBVA 2,5/5-G-5,08-LR	1809296 317
MSTBT 2,5 HC/2-STP GY7035	2200334 325	MSTBU 2,5/9-STD-5,08	1824191 356	MSTBV 2,5/10-GEH-5,08	1808544 317	MSTBVA 2,5/5-G-5,08-RN	1936047 316
MSTBT 2,5 HC/3-ST	1926248 491	MSTBU 2,5/10-STD-5,08	1824201 356	MSTBV 2,5/10-GF	1776964 317	MSTBVA 2,5/5-G-5,08-RN EX	1796584 375
MSTBT 2,5 HC/3-STP GY7035	2200333 325	MSTBU 2,5/11-STD-5,08	1824214 356	MSTBV 2,5/10-GF-5,08	1777154 317	MSTBVA 2,5/5-G-RN	1944628 316
MSTBT 2,5 HC/4-ST	1926251 491	MSTBU 2,5/12-STD-5,08	1824227 356	MSTBV 2,5/10-GF-5,08 EX	1796403 375	MSTBVA 2,5/6-G	1755558 315
MSTBT 2,5 HC/4-STP GY7035	2200332 325	MSTBU 2,5/13-STD-5,08	1824230 356	MSTBV 2,5/11-G	1753615 315	MSTBVA 2,5/6-G-5,08	1755778 315
MSTBT 2,5 HC/5-ST	1926264 491	MSTBU 2,5/14-STD-5,08	1824243 356	MSTBV 2,5/11-G-5,08	1758102 315	MSTBVA 2,5/6-G-5,08-LR	1809306 317
MSTBT 2,5 HC/6-ST	1926277 491	MSTBU 2,5/15-STD-5,08	1824256 356	MSTBV 2,5/11-GEH-5,08	1808557 317	MSTBVA 2,5/6-G-5,08-RN	1936050 316
MSTBT 2,5 HC/7-ST	1926280 491	MSTBU 2,5/16-STD-5,08	1824269 356	MSTBV 2,5/11-GF	1776977 317	MSTBVA 2,5/6-G-5,08-RN EX	1796597 375
MSTBT 2,5 HC/8-ST	1926293 491	MSTBV 2,5 HC/ 2-GF	1924415 497	MSTBV 2,5/11-GF-5,08	1777167 317	MSTBVA 2,5/6-G-RN	1944631 316
MSTBT 2,5 HC/9-ST	1926303 491	MSTBV 2,5 HC/ 2-GF-5,08	1924525 497	MSTBV 2,5/11-GF-5,08 EX	1796416 375	MSTBVA 2,5/7-G	1755561 315
MSTBT 2,5 HC/10-ST	1926316 491	MSTBV 2,5 HC/ 3-GF	1924428 497	MSTBV 2,5/12-G	1753631 315	MSTBVA 2,5/7-G-5,08	1755781 315
MSTBT 2,5 HC/11-ST	1926329 491	MSTBV 2,5 HC/ 3-GF-5,08	1924538 497	MSTBV 2,5/12-G-5,08	1758115 315	MSTBVA 2,5/7-G-5,08-LR	1809319 317
MSTBT 2,5 HC/12-ST	1926332 491	MSTBV 2,5 HC/ 4-GF	1924431 497	MSTBV 2,5/12-GEH-5,08	1808560 317	MSTBVA 2,5/7-G-5,08-RN	1936063 316
MSTBT 2,5/ 2-ST	1779835 265	MSTBV 2,5 HC/ 4-GF-5,08	1924541 497	MSTBV 2,5/12-GF	1776980 317	MSTBVA 2,5/7-G-5,08-RN EX	1796607 375
MSTBT 2,5/ 2-ST-5,08	1779987 265	MSTBV 2,5 HC/ 5-GF	1924444 497	MSTBV 2,5/12-GF-5,08	1777170 317	MSTBVA 2,5/7-G-RN	1944644 316
MSTBT 2,5/2-STF	1919718 265	MSTBV 2,5 HC/ 5-GF-5,08	1924554 497	MSTBV 2,5/12-GF-5,08 EX	1796429 375	MSTBVA 2,5/8-G	1755574 315
MSTBT 2,5/2-STF-5,08	1805301 265	MSTBV 2,5 HC/ 6-GF	1924457 497	MSTBV 2,5/13-G	1753657 315	MSTBVA 2,5/8-G-5,08	1755794 315
MSTBT 2,5/3-ST	1779848 265	MSTBV 2,5 HC/ 6-GF-5,08	1924567 497	MSTBV 2,5/13-G-5,08	1758128 315	MSTBVA 2,5/8-G-5,08-LR	1809322 317
MSTBT 2,5/3-ST-5,08	1779990 265	MSTBV 2,5 HC/ 7-GF	1924460 497	MSTBV 2,5/13-GEH-5,08	1808573 317	MSTBVA 2,5/8-G-5,08-RN	1936076 316
MSTBT 2,5/3-STF	1919721 265	MSTBV 2,5 HC/ 7-GF-5,08	1924570 497	MSTBV 2,5/13-GF	1776993 317	MSTBVA 2,5/8-G-5,08-RN EX	1796610 375
MSTBT 2,5/3-STF-5,08	1805314 265	MSTBV 2,5 HC/ 8-GF	1924473 497	MSTBV 2,5/13-GF-5,08	1777183 317	MSTBVA 2,5/8-G-RN	1944657 316
MSTBT 2,5/4-ST	1779851 265	MSTBV 2,5 HC/ 8-GF-5,08	1924583 497	MSTBV 2,5/14-G	1753673 315	MSTBVA 2,5/9-G	1755587 315
MSTBT 2,5/4-ST-5,08	1780002 265	MSTBV 2,5 HC/ 9-GF	1924486 497	MSTBV 2,5/14-G-5,08	1758131 315	MSTBVA 2,5/9-G-5,08	1755804 315
MSTBT 2,5/ 4-STF	1919734 265	MSTBV 2,5 HC/ 9-GF-5,08	1924596 497	MSTBV 2,5/14-GEH-5,08	1808586 317	MSTBVA 2,5/9-G-5,08-LR	1809335 317
MSTBT 2,5/ 4-STF-5,08	1805327 265	MSTBV 2,5 HC/10-GF	1924499 497	MSTBV 2,5/14-GF	1777002 317	MSTBVA 2,5/9-G-5,08-RN	1936089 316
MSTBT 2,5/ 5-ST	1779864 265	MSTBV 2,5 HC/10-GF-5,08	1924606 497	MSTBV 2,5/14-GF-5,08	1777196 317	MSTBVA 2,5/9-G-5,08-RN EX	1796623 375
MSTBT 2,5/ 5-ST-5,08	1781014 265	MSTBV 2,5 HC/11-GF	1924509 497	MSTBV 2,5/15-G	1753699 315	MSTBVA 2,5/9-G-RN	1944660 316
MSTBT 2,5/5-STF	1919747 265	MSTBV 2,5 HC/11-GF-5,08	1924619 497	MSTBV 2,5/15-G-5,08	1758144 315	MSTBVA 2,5/10-G	1755503 315
MSTBT 2,5/5-STF-5,08	1805330 265	MSTBV 2,5 HC/12-GF	1924512 497	MSTBV 2,5/15-GEH-5,08	1808599 317	MSTBVA 2,5/10-G-5,08	1755817 315
MSTBT 2,5/6-ST	1779877 265	MSTBV 2,5 HC/12-GF-5,08	1924622 497	MSTBV 2,5/15-GF	1777015 317	MSTBVA 2,5/10-G-5,08-LR	1809348 317
MSTBT 2,5/6-ST-5,08	1781027 265	MSTBV 2,5/2-G	1753437 315	MSTBV 2,5/15-GF-5,08	1777206 317	MSTBVA 2,5/10-G-5,08-RN	1936092 316
MSTBT 2,5/6-STF	1919750 265	MSTBV 2,5/2-G-5,08	1758018 315	MSTBV 2,5/16-G	1753712 315	MSTBVA 2,5/10-G-5,08-RN EX	1796636 375
MSTBT 2,5/6-STF-5,08	1805343 265	MSTBV 2,5/2-GEH-5,08	1808463 317	MSTBV 2,5/16-G-5,08	1758157 315	MSTBVA 2,5/10-G-RN	1944673 316
MSTBT 2,5/7-ST	1779880 265	MSTBV 2,5/2-GF	1776883 317	MSTBV 2,5/16-GEH-5,08	1808609 317	MSTBVA 2,5/11-G	1755590 315
MSTBT 2,5/7-ST-5,08	1781030 265	MSTBV 2,5/2-GF-5,08	1777073 317	MSTBV 2,5/16-GF	1777028 317	MSTBVA 2,5/11-G-5,08	1755820 315
MSTBT 2,5/7-STF	1919763 265	MSTBV 2,5/ 2-GF-5,08 EX	1796322 375	MSTBV 2,5/16-GF-5,08	1777219 317	MSTBVA 2,5/11-G-5,08-LR	1809351 317
MSTBT 2,5/7-STF-5,08	1805356 265	MSTBV 2,5/ 3-G	1753453 315	MSTBV 2,5/17-G	1753738 719	MSTBVA 2,5/11-G-5,08-RN	1936102 316
MSTBT 2,5/8-ST	1779893 265	MSTBV 2,5/ 3-G-5,08	1758021 315	MSTBVA 2,5 HC/ 2-G	1924198 497	MSTBVA 2,5/11-G-5,08-RN EX	1796649 375
MSTBT 2,5/8-ST-5,08	1781043 265	MSTBV 2,5/ 3-GEH-5,08	1808476 317	MSTBVA 2,5 HC/ 2-G-5,08	1924305 497	MSTBVA 2,5/11-G-RN	1944686 316
MSTBT 2,5/8-STF	1919776 265	MSTBV 2,5/ 3-GF	1776896 317	MSTBVA 2,5 HC/ 3-G	1924208 497	MSTBVA 2,5/12-G	1755600 315
MSTBT 2,5/8-STF-5,08	1804661 265	MSTBV 2,5/ 3-GF-5,08	1777086 317	MSTBVA 2,5 HC/ 3-G-5,08	1924318 497	MSTBVA 2,5/12-G-5,08	1755833 315
MSTBT 2,5/9-ST	1779903 265	MSTBV 2,5/ 3-GF-5,08 EX	1796335 375	MSTBVA 2,5 HC/ 4-G	1924211 497	MSTBVA 2,5/12-G-5,08-LR	1809364 317
MSTBT 2,5/9-ST-5,08	1734207 265	MSTBV 2,5/ 4-G	1753479 315	MSTBVA 2,5 HC/ 4-G-5,08	1924321 497	MSTBVA 2,5/12-G-5,08-RN	1936115 316
MSTBT 2,5/9-STF	1919789 265	MSTBV 2,5/ 4-G-5,08	1758034 315	MSTBVA 2,5 HC/ 5-G	1924224 497	MSTBVA 2,5/12-G-5,08-RN EX	1796652 375
MSTBT 2,5/9-STF-5,08	1805369 265	MSTBV 2,5/ 4-GEH-5,08	1808489 317	MSTBVA 2,5 HC/ 5-G-5,08	1924334 497	MSTBVA 2,5/12-G-RN	1944699 316
MSTBT 2,5/10-ST	1779916 265	MSTBV 2,5/ 4-GF	1776906 317	MSTBVA 2,5 HC/ 6-G	1924237 497	MSTBVA 2,5/13-G	1755613 315
MSTBT 2,5/10-ST-5,08	1781069 265	MSTBV 2,5/ 4-GF-5,08	1777099 317	MSTBVA 2,5 HC/ 6-G-5,08	1924347 497	MSTBVA 2,5/13-G-5,08	1755846 315
MSTBT 2,5/10-STF	1919792 265	MSTBV 2,5/ 4-GF-5,08 EX	1796348 375	MSTBVA 2,5 HC/ 7-G	1924240 497	MSTBVA 2,5/13-G-5,08-LR	1809377 317
MSTBT 2,5/10-STF-5,08	1805372 265	MSTBV 2,5/ 5-G	1753495 315	MSTBVA 2,5 HC/ 7-G-5,08	1924350 497	MSTBVA 2,5/13-G-5,08-RN	1936128 316
MSTBT 2,5/11-ST	1779929 265	MSTBV 2,5/ 5-G-5,08	1758047 315	MSTBVA 2,5 HC/ 8-G	1924253 497	MSTBVA 2,5/13-G-RN	1944709 316
MSTBT 2,5/11-ST-5,08	1781072 265	MSTBV 2,5/ 5-GEH-5,08	1808492 317	MSTBVA 2,5 HC/ 8-G-5,08	1924363 497	MSTBVA 2,5/14-G	1755626 315
MSTBT 2,5/11-STF	1919802 265	MSTBV 2,5/5-GF	1776919 317	MSTBVA 2,5 HC/ 9-G	1924266 497	MSTBVA 2,5/14-G-5,08	1755859 315
MSTBT 2,5/11-STF-5,08	1805385 265	MSTBV 2,5/5-GF-5,08	1777109 317	MSTBVA 2,5 HC/ 9-G-5,08	1924376 497	MSTBVA 2,5/14-G-5,08-LR	1809380 317
MSTBT 2,5/12-ST	1779932 265	MSTBV 2,5/5-GF-5,08 EX	1796351 375	MSTBVA 2,5 HC/10-G	1924279 497	MSTBVA 2,5/14-G-5,08-RN	1936131 316
MSTBT 2,5/12-ST-5,08	1781085 265	MSTBV 2,5/6-G	1753518 315	MSTBVA 2,5 HC/10-G-5,08	1924389 497	MSTBVA 2,5/14-G-RN	1944712 316
MSTBT 2,5/12-STF	1919815 265	MSTBV 2,5/6-G-5,08	1758050 315	MSTBVA 2,5 HC/11-G	1924282 497	MSTBVA 2,5/15-G	1755639 315
MSTBT 2,5/12-STF-5,08	1805398 265	MSTBV 2,5/6-GEH-5,08	1808502 317	MSTBVA 2,5 HC/11-G-5,08	1924392 497	MSTBVA 2,5/15-G-5,08	1755862 315
MSTBT 2,5/13-ST	1779945 265	MSTBV 2,5/6-GF	1776922 317	MSTBVA 2,5 HC/12-G	1924295 497	MSTBVA 2,5/15-G-5,08-LR	1809393 317
MSTBT 2,5/13-ST-5,08	1781098 265	MSTBV 2,5/6-GF-5,08	1777112 317	MSTBVA 2,5 HC/12-G-5,08	1924402 497	MSTBVA 2,5/15-G-5,08-RN	1936144 316
MSTBT 2,5/13-STF	1919828 265	MSTBV 2,5/ 6-GF-5,08 EX	1796364 375	MSTBVA 2,5/2-G	1755516 315	MSTBVA 2,5/15-G-RN	1944725 316
MSTBT 2,5/13-STF-5,08	1805408 265	MSTBV 2,5/ 7-G	1753534 315	MSTBVA 2,5/2-G-5,08	1755736 315	MSTBVA 2,5/16-G	1755642 315
MSTBT 2,5/14-ST	1779958 265	MSTBV 2,5/ 7-G-5,08	1758063 315	MSTBVA 2,5/2-G-5,08-LR	1809267 317	MSTBVA 2,5/16-G-5,08	1755875 315
MSTBT 2,5/14-ST-5,08	1781108 265	MSTBV 2,5/ 7-GEH-5,08	1808515 317	MSTBVA 2,5/2-G-5,08-RN	1936018 316	MSTBVA 2,5/16-G-5,08-LR	1809403 317
MSTBT 2,5/14-STF	1919831 265	MSTBV 2,5/7-GF	1776935 317	MSTBVA 2,5/2-G-5,08-RN EX	1796555 375	MSTBVA 2,5/16-G-5,08-RN	1936157 316
MSTBT 2,5/14-STF-5,08	1805411 265	MSTBV 2,5/7-GF-5,08	1777125 317	MSTBVA 2,5/2-G-RN	1944592 316	MSTBVA 2,5/16-G-RN	1944738 316
MSTBT 2,5/15-ST	1779961 265	MSTBV 2,5/7-GF-5,08 EX	1796377 375	MSTBVA 2,5/3-G	1755529 315	MSTBVK 2,5/ 2-G-5,08	1788729 360
MSTBT 2,5/15-ST-5,08	1781111 265	MSTBV 2,5/8-G	1753550 315	MSTBVA 2,5/3-G-5,08	1755749 315	MSTBVK 2,5/ 2-GF-5,08	1788952 361

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MSTBVK 2,5/3-G-5,08	1788732 360	MVSTBR 2,5 HC/ 7-STF	1912566 493	MVSTBR 2,5/13-STF-5,08	1835203 267	MVSTBW 2,5 HC/11-ST-5,08	1912935 493
MSTBVK 2,5/3-GF-5,08	1788965 361	MVSTBR 2,5 HC/ 7-STF-5,08	1912676 493	MVSTBR 2,5/14-ST	1792139 266	MVSTBW 2,5 HC/11-STF	1913044 493
MSTBVK 2,5/4-G-5,08	1788745 360	MVSTBR 2,5 HC/ 8-ST	1912359 492	MVSTBR 2,5/14-ST-5,08	1792362 266	MVSTBW 2,5 HC/11-STF-5,08	1913154 493
MSTBVK 2,5/4-GF-5,08	1788978 361	MVSTBR 2,5 HC/ 8-ST-5,08	1912469 492	MVSTBR 2,5/14-STF	1835591 267	MVSTBW 2,5 HC/12-ST	1912838 493
MSTBVK 2,5/5-G-5,08	1788758 360	MVSTBR 2,5 HC/ 8-STF	1912579 493	MVSTBR 2,5/14-STF-5,08	1835216 267	MVSTBW 2,5 HC/12-ST-5,08	1912948 493
MSTBVK 2,5/5-GF-5,08	1788981 361	MVSTBR 2,5 HC/ 8-STF-5,08	1912689 493	MVSTBR 2,5/15-ST	1792142 266	MVSTBW 2,5 HC/12-STF	1913057 493
MSTBVK 2,5/6-G-5,08	1788761 360	MVSTBR 2,5 HC/ 9-ST	1912362 492	MVSTBR 2,5/15-ST-5,08	1792375 266	MVSTBW 2,5 HC/12-STF-5,08	1913167 493
MSTBVK 2,5/6-GF-5,08	1788994 361	MVSTBR 2,5 HC/ 9-ST-5,08	1912472 492	MVSTBR 2,5/15-STF	1835601 267	MVSTBW 2,5/2-ST	1792524 267
MSTBVK 2,5/7-G-5,08	1788774 360	MVSTBR 2,5 HC/ 9-STF	1912582 493	MVSTBR 2,5/15-STF-5,08	1835229 267	MVSTBW 2,5/2-ST-5,08	1792757 267
MSTBVK 2,5/7-GF-5,08	1789003 361	MVSTBR 2,5 HC/ 9-STF-5,08	1912692 493	MVSTBR 2,5/16-ST	1792155 266	MVSTBW 2,5/2-STF	1835287 267
MSTBVK 2,5/8-G-5,08	1788787 360	MVSTBR 2,5 HC/10-ST	1912375 492	MVSTBR 2,5/16-ST-5,08	1792388 266	MVSTBW 2,5/2-STF-5,08	1834903 267
MSTBVK 2,5/8-GF-5,08	1803015 361	MVSTBR 2,5 HC/10-ST-5,08	1912485 492	MVSTBR 2,5/16-STF	1835614 267	MVSTBW 2,5/2-STF-5,08 EX	1809788 369
MSTBVK 2,5/9-G-5,08	1788790 360	MVSTBR 2,5 HC/10-STF	1912595 493	MVSTBR 2,5/16-STF-5,08	1835232 267	MVSTBW 2,5/3-ST	1792537 267
MSTBVK 2,5/9-GF-5,08	1803028 361	MVSTBR 2,5 HC/10-STF-5,08	1912702 493	MVSTBU 2,5/2-GB-5,08	1788538 357	MVSTBW 2,5/3-ST-5,08	1792760 267
MSTBVK 2,5/10-G-5,08	1788800 360	MVSTBR 2,5 HC/11-ST	1912388 492	MVSTBU 2,5/2-GFB-5,08	1788347 357	MVSTBW 2,5/3-STF	1835290 267
MSTBVK 2,5/10-GF-5,08	1803031 361	MVSTBR 2,5 HC/11-ST-5,08	1912498 492	MVSTBU 2,5/3-GB-5,08	1788541 357	MVSTBW 2,5/3-STF-5,08	1834916 267
MSTBVK 2,5/11-G-5,08	1788813 360	MVSTBR 2,5 HC/11-STF	1912605 493	MVSTBU 2,5/3-GFB-5,08	1788350 357	MVSTBW 2,5/3-STF-5,08 EX	1809791 369
MSTBVK 2,5/11-GF-5,08	1803044 361	MVSTBR 2,5 HC/11-STF-5,08	1912715 493	MVSTBU 2,5/4-GB-5,08	1788554 357	MVSTBW 2,5/4-ST	1792540 267
MSTBVK 2,5/12-G-5,08	1788826 360	MVSTBR 2,5 HC/12-ST	1912391 492	MVSTBU 2,5/4-GFB-5,08	1788363 357	MVSTBW 2,5/4-ST-5,08	1792773 267
MSTBVK 2,5/12-GF-5,08	1803057 361	MVSTBR 2,5 HC/12-ST-5,08	1912508 492	MVSTBU 2,5/5-GB-5,08	1788567 357	MVSTBW 2,5/4-STEH	1784299 718
MSTBVK 2,5/13-G-5,08	1788839 360	MVSTBR 2,5 HC/12-STF	1912618 493	MVSTBU 2,5/5-GFB-5,08	1788376 357	MVSTBW 2,5/4-STEH-5,08	1851850 718
MSTBVK 2,5/13-GF-5,08	1803060 361	MVSTBR 2,5 HC/12-STF-5,08	1912728 493	MVSTBU 2,5/6-GB-5,08	1788570 357	MVSTBW 2,5/4-STF	1835300 267
MSTBVK 2,5/14-G-5,08	1788842 360	MVSTBR 2,5/2-ST	1792016 266	MVSTBU 2,5/6-GFB-5,08	1788389 357	MVSTBW 2,5/4-STF-5,08	1834929 267
MSTBVK 2,5/14-GF-5,08	1803073 361	MVSTBR 2,5/2-ST-5,08	1792249 266	MVSTBU 2,5/7-GB-5,08	1788583 357	MVSTBW 2,5/4-STF-5,08 EX	1809801 369
MSTBVK 2,5/15-G-5,08	1788855 360	MVSTBR 2,5/2-STF	1835478 267	MVSTBU 2,5/7-GFB-5,08	1788392 357	MVSTBW 2,5/5-ST	1792553 267
MSTBVK 2,5/15-GF-5,08	1803086 361	MVSTBR 2,5/2-STF-5,08	1835096 267	MVSTBU 2,5/8-GB-5,08	1788596 357	MVSTBW 2,5/5-ST-5,08	1792786 267
MSTBVK 2,5/16-G-5,08	1788868 360	MVSTBR 2,5/2-STF-5,08 EX	1809678 369	MVSTBU 2,5/8-GFB-5,08	1788402 357	MVSTBW 2,5/5-STF	1835313 267
MSTBVK 2,5/16-GF-5,08	1803099 361	MVSTBR 2,5/3-ST	1792029 266	MVSTBU 2,5/9-GB-5,08	1788606 357	MVSTBW 2,5/5-STF-5,08	1834932 267
MSTBW 2,5/2-G	1736111 313	MVSTBR 2,5/3-ST-5,08	1792252 266	MVSTBU 2,5/9-GFB-5,08	1788415 357	MVSTBW 2,5/5-STF-5,08 EX	1809814 369
MSTBW 2,5/2-G-5,08	1735882 313	MVSTBR 2,5/3-STF	1835481 267	MVSTBU 2,5/10-GB-5,08	1788619 357	MVSTBW 2,5/6-ST	1792566 267
MSTBW 2,5/3-G	1736108 313	MVSTBR 2,5/3-STF-5,08	1835106 267	MVSTBU 2,5/10-GFB-5,08	1788428 357	MVSTBW 2,5/6-ST-5,08	1792799 267
MSTBW 2,5/3-G-5,08	1735879 313	MVSTBR 2,5/3-STF-5,08 EX	1809681 369	MVSTBU 2,5/11-GB-5,08	1788622 357	MVSTBW 2,5/6-STF	1835326 267
MSTBW 2,5/4-G	1736098 313	MVSTBR 2,5/ 4-ST	1792032 266	MVSTBU 2,5/11-GFB-5,08	1788431 357	MVSTBW 2,5/6-STF-5,08	1834945 267
MSTBW 2,5/4-G-5,08	1735866 313	MVSTBR 2,5/ 4-ST-5,08	1792265 266	MVSTBU 2,5/12-GB-5,08	1788635 357	MVSTBW 2,5/6-STF-5,08 EX	1809827 369
MSTBW 2,5/5-G	1736085 313	MVSTBR 2,5/ 4-STF	1835494 267	MVSTBU 2,5/12-GFB-5,08	1788444 357	MVSTBW 2,5/7-ST	1792579 267
MSTBW 2,5/5-G-5,08	1735853 313	MVSTBR 2,5/ 4-STF-5,08	1835119 267	MVSTBU 2,5/13-GB-5,08	1788648 357	MVSTBW 2,5/7-ST-5,08	1792809 267
MSTBW 2,5/6-G	1736072 313	MVSTBR 2,5/ 4-STF-5,08 EX	1809694 369	MVSTBU 2,5/13-GFB-5,08	1788457 357	MVSTBW 2,5/7-STF	1835339 267
MSTBW 2,5/6-G-5,08	1735840 313	MVSTBR 2,5/ 5-ST	1792045 266	MVSTBU 2,5/14-GB-5,08	1788651 357	MVSTBW 2,5/7-STF-5,08	1834958 267
MSTBW 2,5/7-G	1736069 313	MVSTBR 2,5/ 5-ST-5,08	1792278 266	MVSTBU 2,5/14-GFB-5,08	1788460 357	MVSTBW 2,5/7-STF-5,08 EX	1809830 369
MSTBW 2,5/7-G-5,08	1735837 313	MVSTBR 2,5/ 5-STF	1835504 267	MVSTBU 2,5/15-GB-5,08	1788664 357	MVSTBW 2,5/8-ST	1792582 267
MSTBW 2,5/8-G	1736056 313	MVSTBR 2,5/5-STF-5,08	1835122 267	MVSTBU 2,5/15-GFB-5,08	1788473 357	MVSTBW 2,5/8-ST-5,08	1792812 267
MSTBW 2,5/8-G-5,08	1735824 313	MVSTBR 2,5/5-STF-5,08 EX	1809704 369	MVSTBU 2,5/16-GB-5,08	1788677 357	MVSTBW 2,5/8-STEH	1784309 719
MSTBW 2,5/9-G	1736043 313	MVSTBR 2,5/6-ST	1792058 266	MVSTBU 2,5/16-GFB-5,08	1788486 357	MVSTBW 2,5/8-STF	1835342 267
MSTBW 2,5/9-G-5,08	1735811 313	MVSTBR 2,5/6-ST-5,08	1792281 266	MVSTBW 2,5 HC/ 2-ST	1912731 493	MVSTBW 2,5/8-STF-5,08	1834961 267
MSTBW 2,5/10-G	1736030 313	MVSTBR 2,5/6-STF	1835517 267	MVSTBW 2,5 HC/ 2-ST-5,08	1912841 493	MVSTBW 2,5/ 8-STF-5,08 EX	1809843 369
MSTBW 2,5/10-G-5,08	1735808 313	MVSTBR 2,5/6-STF-5,08	1835135 267	MVSTBW 2,5 HC/ 2-STF	1912951 493	MVSTBW 2,5/ 9-ST	1792595 267
MSTBW 2,5/11-G	1736027 313	MVSTBR 2,5/6-STF-5,08 EX	1809717 369	MVSTBW 2,5 HC/ 2-STF-5,08	1913060 493	MVSTBW 2,5/ 9-ST-5,08	1792825 267
MSTBW 2,5/11-G-5,08	1735798 313	MVSTBR 2,5/7-ST	1792061 266	MVSTBW 2,5 HC/ 3-ST	1912744 493	MVSTBW 2,5/ 9-STEH	1763401 719
MSTBW 2,5/12-G	1736014 313	MVSTBR 2,5/7-ST-5,08	1792294 266	MVSTBW 2,5 HC/ 3-ST-5,08	1912854 493	MVSTBW 2,5/9-STF	1835355 267
MSTBW 2,5/12-G-5,08	1735785 313	MVSTBR 2,5/7-STF	1835520 267	MVSTBW 2,5 HC/ 3-STF	1912964 493	MVSTBW 2,5/9-STF-5,08	1834974 267
MSTBW 2,5/13-G	1736001 313	MVSTBR 2,5/7-STF-5,08	1835148 267	MVSTBW 2,5 HC/ 3-STF-5,08	1913073 493	MVSTBW 2,5/9-STF-5,08 EX	1809856 369
MSTBW 2,5/13-G-5,08	1735772 313	MVSTBR 2,5/7-STF-5,08 EX	1809720 369	MVSTBW 2,5 HC/ 4-ST	1912757 493	MVSTBW 2,5/10-ST	1792605 267
MSTBW 2,5/14-G	1735992 313	MVSTBR 2,5/8-ST	1792074 266	MVSTBW 2,5 HC/ 4-ST-5,08	1912867 493	MVSTBW 2,5/10-ST-5,08	1792838 267
MSTBW 2,5/14-G-5,08	1735769 313	MVSTBR 2,5/8-ST-5,08	1792304 266	MVSTBW 2,5 HC/ 4-STF	1912977 493	MVSTBW 2,5/10-STF	1835368 267
MSTBW 2,5/15-G	1735989 313	MVSTBR 2,5/8-STF	1835533 267	MVSTBW 2,5 HC/ 4-STF-5,08	1913086 493	MVSTBW 2,5/10-STF-5,08	1834987 267
MSTBW 2,5/15-G-5,08	1735756 313	MVSTBR 2,5/8-STF-5,08	1835151 267	MVSTBW 2,5 HC/ 5-ST	1912760 493	MVSTBW 2,5/10-STF-5,08 EX	1809869 369
MSTBW 2,5/16-G	1735976 313	MVSTBR 2,5/8-STF-5,08 EX	1809733 369	MVSTBW 2,5 HC/ 5-ST-5,08	1912870 493	MVSTBW 2,5/11-ST	1792618 267
MSTBW 2,5/16-G-5,08	1735743 313	MVSTBR 2,5/9-ST	1792087 266	MVSTBW 2,5 HC/ 5-STF	1912980 493	MVSTBW 2,5/11-ST-5,08	1792841 267
MVSTBR 2,5 HC/ 2-ST	1912294 492	MVSTBR 2,5/9-ST-5,08	1792317 266	MVSTBW 2,5 HC/ 5-STF-5,08	1913099 493	MVSTBW 2,5/11-STF	1835371 267
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PLH 5/ 2-7,5-ZF	1792106 471	PST 1,3/3-LH-5,0	1704291 431	PT 1,5/5-PH-5,0	1755619 425	PT 1,5/14-PH-3,5	1984439 423
PLH 5/ 3-7,5-ZF	1792119 471	PST 1,3/3-LV-5,0	1704453 431	PT 1,5/5-PH-5,0 CLIP	1755761 425	PT 1,5/14-PH-5,0	1755703 425
PLH 5/ 4-7,5-ZF	1792122 471	PST 1,3/ 4-5,0	1933202 434	PT 1,5/5-PVH-3,5	1984044 423	PT 1,5/14-PH-5,0 CLIP	1755855 425
PLH 5/ 5-7,5-ZF	1792135 471	PST 1,3/ 4-5,0 R56	1720314 435	PT 1,5/5-PVH-5,0	1934890 425	PT 1,5/14-PVH-3,5	1984138 423
PLH 5/ 6-7,5-ZF	1792148 471	PST 1,3/ 4-5,0-SF	1805643 417	PT 1,5/6-3,5-H	1984659 419	PT 1,5/14-PVH-5,0	1934984 425
PLH 5/ 7-7,5-ZF	1792151 471	PST 1,3/ 4-H-5,0	1705481 435	PT 1,5/6-3,5-V	1984808 419	PT 1,5/15-3,5-H	1984743 419
PLH 5/8-7,5-ZF	1792164 471	PST 1,3/ 4-LH-5,0	1704327 431	PT 1,5/6-5,0-H	1935200 421	PT 1,5/15-3,5-V	1984895 419
PLH 5/9-7,5-ZF	1792177 471	PST 1,3/ 4-LV-5,0	1704482 431	PT 1,5/6-5,0-V	1935352 421	PT 1,5/15-5,0-H	1935297 421
PLH 5/10-7,5-ZF	1792180 471	PST 1,3/ 5-5,0	1933215 434	PT 1,5/6-PH-3,5	1984358 423	PT 1,5/15-5,0-V	1935446 421
PLH 5/11-7,5-ZF	1792193 471	PST 1,3/ 5-5,0 R56	1720327 435	PT 1,5/6-PH-5,0	1755622 425	PT 1,5/15-PH-3,5	1984442 423
PLH 5/12-7,5-ZF	1792203 471	PST 1,3/5-5,0-SF	1805656 417	PT 1,5/6-PH-5,0 CLIP	1755774 425	PT 1,5/15-PH-5,0	1755716 425
PLW 16-6/3-10	1821067 605	PST 1,3/5-H-5,0	1705494 435	PT 1,5/6-PVH-3,5	1984057 423	PT 1,5/15-PH-5,0 CLIP	1755868 425
PLW 16-6/4-10	1821070 605	PST 1,3/5-LH-5,0	1704356 431	PT 1,5/6-PVH-5,0	1934900 425	PT 1,5/15-PVH-3,5	1984141 423
PLW 16-6/5-10	1821083 605	PST 1,3/5-LV-5,0	1704518 431	PT 1,5/7-3,5-H	1984662 419	PT 1,5/15-PVH-5,0	1934997 425
PMB	1004364 758	PST 1,3/ 6-5,0	1933228 434	PT 1,5/7-3,5-V	1984811 419	PT 1,5/16-3,5-H	1984756 419
PS-IH BK	0311634 831	PST 1,3/ 6-5,0 R56	1720330 435	PT 1,5/7-5,0-H	1935213 421	PT 1,5/16-3,5-V	1984905 419
PS-IH BU	0311582 831	PST 1,3/ 6-5,0-SF	1805669 417	PT 1,5/7-5,0-V	1935365 421	PT 1,5/16-5,0-H	1935307 421
PS-IH GN	0311605 831	PST 1,3/ 6-H-5,0	1705504 435	PT 1,5/7-PH-3,5	1984361 423	PT 1,5/16-5,0-V	1935459 421
PS-IH GY	0311621 831	PST 1,3/6-LH-5,0	1704369 431	PT 1,5/7-PH-5,0	1755635 425	PT 1,5/16-PH-3,5	1984455 423
PS-IH RD	0311579 831	PST 1,3/6-LV-5,0	1704521 431	PT 1,5/7-PH-5,0 CLIP	1755787 425	PT 1,5/16-PH-5,0	1755729 425
PS-IH VT	0311618 831	PST 1,3/7-5,0	1933231 434	PT 1,5/7-PVH-3,5	1984060 423	PT 1,5/16-PH-5,0 CLIP	1755871 425
PS-IH WH	0311566 831	PST 1,3/7-5,0 R56	1720343 435	PT 1,5/7-PVH-5,0	1934913 425	PT 1,5/16-PVH-3,5	1984154 423
PS-IH YE	0311595 831	PST 1,3/ 7-5,0-SF	1805672 417	PT 1,5/8-3,5-H	1984675 419	PT 1,5/16-PVH-5,0	1935006 425
PS-MT	0311647 831	PST 1,3/ 7-H-5,0	1717301 435	PT 1,5/8-3,5-V	1984824 419	PT 2,5/2-5,0-H	1935776 427
PSC 1,5/3-F	1841909 251	PST 1,3/ 7-LH-5,0	1704372 431	PT 1,5/8-5,0-H	1935226 421	PT 2,5/2-5,0-V	1987724 427
PSC 1,5/3-M	1841857 251	PST 1,3/ 7-LV-5,0	1704534 431	PT 1,5/8-5,0-V	1935378 421	PT 2,5/2-7,5-H	1988105 429
PSC 1,5/3-M-PE	1848122 253	PST 1,3/ 8-5,0	1933244 434	PT 1,5/8-PH-3,5	1984374 423	PT 2,5/2-7,5-V	1987957 429
PSC 1,5/5-F	1841912 251	PST 1,3/ 8-5,0 R56	1720356 435	PT 1,5/8-PH-5,0	1755648 425	PT 2,5/2-PVH-5,0	1704165 431
PSC 1,5/5-M	1841899 253	PST 1,3/ 8-5,0-SF	1805685 417	PT 1,5/8-PH-5,0 CLIP	1755790 425	PT 2,5/3-5,0-H	1935789 427
PSC 1,5/5-M-PE	1848135 253	PST 1,3/ 8-H-5,0	1717314 435	PT 1,5/8-PVH-3,5	1984073 423	PT 2,5/3-5,0-V	1987737 427
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PST 1,0/2-H-3,5	1737019 433	PST 1,3/9-5,0	1933257 434	PT 1,5/9-3,5-V	1984837 419	PT 2,5/3-PVH-5,0	1704178 431
PST 1,0/3-3,5	1945106 432	PST 1,3/9-H-5,0	1717327 435	PT 1,5/9-5,0-H	1935239 421	PT 2,5/4-5,0-H	1935792 427
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PST 1,0/3-H-3,5	1737022 433	PST 1,3/10-H-5,0	1717330 435	PT 1,5/9-PH-3,5	1984387 423	PT 2,5/4-7,5-H	1988121 429
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PST 1,0/4-3,5 R24	1995525 433	PST 1,3/11-H-5,0	1717343 435	PT 1,5/9-PH-5,0 CLIP	1755800 425	PT 2,5/4-PVH-5,0	1704181 431
PST 1,0/ 4-H-3,5	1737035 433	PST 1,3/12-5,0	1933286 434	PT 1,5/9-PVH-3,5	1984086 423	PT 2,5/5-5,0-H	1935802 427
PST 1,0/ 5-3,5	1945122 432	PST 1,3/12-H-5,0	1717356 435	PT 1,5/9-PVH-5,0	1934939 425	PT 2,5/5-5,0-V	1987753 427
PST 1,0/ 5-3,5 R56	1720259 433	PST 1,3/13-5,0	1933299 434	PT 1,5/10-3,5-H	1984691 419	PT 2,5/5-7,5-H	1988134 429
PST 1,0/ 5-H-3,5	1737048 433	PST 1,3/13-H-5,0	1717369 435	PT 1,5/10-3,5-V	1984840 419	PT 2,5/5-7,5-V	1987986 429
PST 1,0/6-3,5	1945135 432	PST 1,3/14-5,0	1933309 434	PT 1,5/10-5,0-H	1935242 421	PT 2,5/5-PVH-5,0	1704194 431
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PST 1,0/6-H-3,5	1737051 433	PST 1,3/15-5,0	1933312 434	PT 1,5/10-PH-3,5	1984390 423	PT 2,5/6-5,0-V	1987766 427
PST 1,0/7-3,5	1945148 432	PST 1,3/15-H-5,0	1717385 435	PT 1,5/10-PH-5,0	1755664 425	PT 2,5/6-7,5-H	1988147 429
PST 1,0/7-3,5 R56	1995538 433	PST 1,3/16-5,0	1933325 434	PT 1,5/10-PH-5,0 CLIP	1755813 425	PT 2,5/6-7,5-V	1987999 429
PST 1,0/7-H-3,5	1737064 433	PST 1,3/16-H-5,0	1717398 435	PT 1,5/10-PVH-3,5	1984099 423	PT 2,5/6-PVH-5,0	1704204 431
PST 1,0/8-3,5	1945151 432	PT 1,5/ 2-3,5-H	1984617 419	PT 1,5/10-PVH-5,0	1934942 425	PT 2,5/7-5,0-H	1935828 427
PST 1,0/8-3,5 R56	1720275 433	PT 1,5/ 2-3,5-V	1984769 419	PT 1,5/11-3,5-H	1984701 419	PT 2,5/7-5,0-V	1987779 427
PST 1,0/8-H-3,5	1737077 433	PT 1,5/2-5,0-H	1935161 421	PT 1,5/11-3,5-V	1984853 419	PT 2,5/7-7,5-H	1988150 429
PST 1,0/9-3,5	1945164 432	PT 1,5/2-5,0-V	1935310 421	PT 1,5/11-5,0-H	1935255 421	PT 2,5/7-7,5-V	1988008 429
PST 1,0/9-3,5 R56	1995541 433	PT 1,5/2-PH-3,5	1984316 423	PT 1,5/11-5,0-V	1935404 421	PT 2,5/7-PVH-5,0	1704217 431
PST 1,0/9-H-3,5	1737080 433	PT 1,5/2-PH-5,0	1755583 425	PT 1,5/11-PH-3,5	1984400 423	PT 2,5/8-5,0-H	1935831 427
PST 1,0/10-3,5	1945177 432	PT 1,5/2-PH-5,0 CLIP	1755732 425	PT 1,5/11-PH-5,0	1755677 425	PT 2,5/8-5,0-V	1987782 427
PST 1,0/10-3,5 R56	1720288 433	PT 1,5/2-PVH-3,5	1984015 423	PT 1,5/11-PH-5,0 CLIP	1755826 425	PT 2,5/8-7,5-H	1988163 429
PST 1,0/10-H-3,5	1737093 433	PT 1,5/2-PVH-5,0	1934861 425	PT 1,5/11-PVH-3,5	1984109 423	PT 2,5/8-7,5-V	1988011 429
PST 1,0/11-3,5	1945180 432	PT 1,5/3-3,5-H	1984620 419	PT 1,5/11-PVH-5,0	1934955 425	PT 2,5/8-PVH-5,0	1704220 431
PST 1,0/11-3,5 R56	1720291 433	PT 1,5/3-3,5-V	1984772 419	PT 1,5/12-3,5-H	1984714 419	PT 2,5/9-5,0-H	1935844 427
PST 1,0/11-H-3,5	1737103 433	PT 1,5/3-5,0-H	1935174 421	PT 1,5/12-3,5-V	1984866 419	PT 2,5/9-5,0-V	1987795 427
PST 1,0/12-3,5	1945193 432	PT 1,5/3-5,0-V	1935323 421	PT 1,5/12-5,0-H	1935268 421	PT 2,5/9-7,5-H	1988176 429
PST 1,0/12-H-3,5	1737116 433	PT 1,5/3-PH-3,5	1984329 423	PT 1,5/12-5,0-V	1935417 421	PT 2,5/9-7,5-V	1988024 429

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PT 2,5/15-5,0-H	1935909 427	PTDA 2,5/9-5,0	1725393 409	PTSA 0,5/9-2,5-F	1989816 411	PTSM 0,5/ 3-HHI0-2,5-SMD R44	1815138 61
PT 2,5/15-5,0-V	1987850 427	PTDA 2,5/9-PH-5,0	1725649 409	PTSA 0,5/9-2,5-Z	1990070 411	PTSM 0,5/ 3-HHI0-2,5-SMD WHR44	1815206 399
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PT/FS 2,8	1406700 723	PTDA 2,5/11-5,0	1725419 409	PTSA 0,5/11-2,5-F	1989832 411	PTSM 0,5/ 3-P-2,5	1778845 55
PT/FS 6,3	0604707 723	PTDA 2,5/11-PH-5,0	1725665 409	PTSA 0,5/11-2,5-Z	1990096 411	PTSM 0,5/ 3-P-2,5 WH	1704854 395
PTA 1,5/ 2-3,5	1988956 419	PTDA 2,5/12-5,0	1725432 409	PTSA 0,5/12-2,5-F	1989845 411	PTSM 0,5/ 4-2,5-H SMD R24	1702474 53
PTA 1,5/ 2-5,0	1988804 421	PTDA 2,5/12-PH-5,0	1725678 409	PTSA 0,5/12-2,5-Z	1990106 411	PTSM 0,5/ 4-2,5-H SMD WH R24	1814650 393
PTA 1,5/3-3,5	1988969 419	PTDA 2,5/13-5,0	1725445 409	PTSA 0,5/13-2,5-F	1989858 411	PTSM 0,5/ 4-2,5-H THR R32	1770908 51
PTA 1,5/3-5,0	1988817 421	PTDA 2,5/13-PH-5,0	1725640 409	PTSA 0,5/13-2,5-Z	1990119 411	PTSM 0,5/ 4-2,5-H THR WH R32	1814511 391
PTA 1,5/4-3,5	1988972 419	PTDA 2,5/14-5,0	1725458 409	PTSA 0,5/14-2,5-F	1989861 411	PTSM 0,5/ 4-2,5-V SMD R44	1771114 53
PTA 1,5/4-5,0	1988820 421	PTDA 2,5/14-PH-5,0	1725653 409	PTSA 0,5/14-2,5-Z	1990122 411	PTSM 0,5/ 4-2,5-V SMD WH R44	1814728 393
PTA 1,5/5-3,5	1988985 419	PTDA 2,5/15-5,0	1725471 409	PTSA 0,5/15-2,5-F	1989874 411	PTSM 0,5/ 4-2,5-V THR R44	1770979 51
PTA 1,5/5-5,0	1988833 421	PTDA 2,5/15-PH-5,0	1725666 409	PTSA 0,5/15-2,5-Z	1990135 411	PTSM 0,5/ 4-2,5-V THR WH R44	1814582 391
PTA 1,5/6-3,5	1988998 419	PTDA 2,5/16-5,0	1725484 409	PTSA 0,5/16-2,5-F	1989887 411	PTSM 0,5/ 4-HH-2,5-THR R32	1778641 59
PTA 1,5/6-5,0	1988846 421	PTDA 2,5/16-PH-5,0	1725679 409	PTSA 0,5/16-2,5-Z	1990148 411	PTSM 0,5/ 4-HH-2,5-THR WH R32	1814867 397
PTA 1,5/7-3,5	1989007 419	PTF 0,3/ 2-WB-1,8-H	1826091 401	PTSA 1,5/2-3,5-F	1984963 413	PTSM 0,5/ 4-HH0-2,5-SMD R32	1808213 59
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PTA 1,5/8-3,5	1989010 419	PTF 0,3/ 4-WB-1,8-H	1826114 401	PTSA 1,5/3-3,5-F	1984976 413	PTSM 0,5/ 4-HHI-2,5-THR R32	1815073 61
PTA 1,5/8-5,0	1988862 421	PTPM 0,2/ 2-P-2,5	1780477 55	PTSA 1,5/3-3,5-Z	1985205 413	PTSM 0,5/ 4-HHI-2,5-THR WH R32	1815002 399
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PTA 1,5/9-5,0	1988875 421	PTPM 0,2/ 5-P-2,5 PA CAT5	1811161 57	PTSA 1,5/ 4-3,5-Z	1985218 413	PTSM 0,5/ 4-HHI0-2,5-SMD WHR44	1815219 399
PTA 1,5/10-3,5	1989036 419	PTPM 0,2/ 6-P-2,5	1780493 55	PTSA 1,5/ 5-3,5-F	1984992 413	PTSM 0,5/ 4-HV-2,5-THR R32	1778573 59
PTA 1,5/10-5,0	1988888 421	PTPM 0,2/ 8-P-2,5	1780503 55	PTSA 1,5/ 5-3,5-Z	1985221 413	PTSM 0,5/ 4-HV-2,5-THR WH R32	1815280 397
PTA 1,5/11-3,5	1989049 419	PTPM 0,2/10-P-2,5	1780516 55	PTSA 1,5/6-3,5-F	1985001 413	PTSM 0,5/ 4-P-2,5	1778858 55
PTA 1,5/11-5,0	1988891 421	PTPM 0,4/ 2-P-2,5	1780529 55	PTSA 1,5/6-3,5-Z	1985234 413	PTSM 0,5/ 4-P-2,5 WH	1704857 395
PTA 1,5/12-3,5	1989052 419	PTPM 0,4/ 4-P-2,5	1780532 55	PTSA 1,5/7-3,5-F	1985014 413	PTSM 0,5/ 5-2,5-H SMD R44	1771059 53
PTA 1,5/12-5,0	1988901 421	PTPM 0,4/ 5-P-2,5 PA CAT5	1811145 57	PTSA 1,5/7-3,5-Z	1985247 413	PTSM 0,5/ 5-2,5-H SMD WH R44	1814663 393
PTA 1,5/13-3,5	1989065 419	PTPM 0,4/6-P-2,5	1780545 55	PTSA 1,5/8-3,5-F	1985027 413	PTSM 0,5/ 5-2,5-H THR R32	1770911 51
PTA 1,5/13-5,0	1988914 421	PTPM 0,4/8-P-2,5	1780558 55	PTSA 1,5/8-3,5-Z	1985250 413	PTSM 0,5/ 5-2,5-H THR WH R32	1814524 391
PTA 1,5/14-3,5	1989078 419	PTPM 0,4/10-P-2,5	1780561 55	PTSA 1,5/9-3,5-F	1985030 413	PTSM 0,5/ 5-2,5-V SMD R44	1771127 53
PTA 1,5/14-5,0	1988927 421	PTQ 0,3/2-2,5 THR R32	1702610 63	PTSA 1,5/9-3,5-Z	1985263 413	PTSM 0,5/ 5-2,5-V SMD WH R44	1814731 393
PTA 1,5/15-3,5	1989081 419	PTS 1,5/2-5,0-H	1792863 415	PTSA 1,5/10-3,5-F	1985043 413	PTSM 0,5/ 5-2,5-V THR R44	1770982 51
PTA 1,5/15-5,0	1988930 421	PTS 1,5/2-7,5-H	1703083 415	PTSA 1,5/10-3,5-Z	1985276 413	PTSM 0,5/ 5-2,5-V THR WH R44	1814595 391
PTA 1,5/16-3,5	1989094 419	PTS 1,5/2-PH-5,0	1805517 417	PTSA 1,5/11-3,5-F	1985056 413	PTSM 0,5/ 5-HH-2,5-THR R32	1778654 59
PTA 1,5/16-5,0	1988943 421	PTS 1,5/3-5,0-H	1792876 415	PTSA 1,5/11-3,5-Z	1985289 413	PTSM 0,5/ 5-HH-2,5-THR WH R32	1814870 397
PTDA 1,5/2-3,5	1724912 407	PTS 1,5/3-7,5-H	1703084 415	PTSA 1,5/12-3,5-F	1985069 413	PTSM 0,5/ 5-HH0-2,5-SMD R32	1808226 59
PTDA 1,5/2-PH-3,5	1725107 407	PTS 1,5/3-PH-5,0	1805520 417	PTSA 1,5/12-3,5-Z	1985292 413	PTSM 0,5/ 5-HH0-2,5-SMD WH R32	1814948 397
PTDA 1,5/3-3,5	1724925 407	PTS 1,5/4-5,0-H	1792889 415	PTSA 1,5/13-3,5-F	1985072 413	PTSM 0,5/ 5-HHI-2,5-THR R32	1815086 61
PTDA 1,5/3-PH-3,5	1725120 407	PTS 1,5/4-7,5-H	1703086 415	PTSA 1,5/13-3,5-Z	1985302 413	PTSM 0,5/ 5-HHI-2,5-THR WH R32	1815015 399
PTDA 1,5/4-3,5	1724938 407	PTS 1,5/4-PH-5,0	1805533 417	PTSA 1,5/14-3,5-F	1985085 413	PTSM 0,5/ 5-HHI0-2,5-SMD R44	1815154 61
PTDA 1,5/4-PH-3,5	1725133 407	PTS 1,5/5-5,0-H	1792892 415	PTSA 1,5/14-3,5-Z	1985315 413	PTSM 0,5/ 5-HHI0-2,5-SMD WHR44	1815222 399
PTDA 1,5/5-3,5	1724951 407	PTS 1,5/5-7,5-H	1703087 415	PTSA 1,5/15-3,5-F	1985098 413	PTSM 0,5/ 5-HV-2,5-THR R32	1778586 59
PTDA 1,5/5-PH-3,5	1725146 407	PTS 1,5/5-PH-5,0	1805546 417	PTSA 1,5/15-3,5-Z	1985328 413	PTSM 0,5/ 5-HV-2,5-THR WH R32	1815293 397
PTDA 1,5/6-3,5	1724964 407	PTS 1,5/6-5,0-H	1792902 415	PTSA 1,5/16-3,5-F	1985108 413	PTSM 0,5/5-P-2,5	1778861 55
PTDA 1,5/6-PH-3,5	1725159 407	PTS 1,5/6-7,5-H	1703088 415	PTSA 1,5/16-3,5-Z	1985331 413	PTSM 0,5/5-P-2,5 WH	1704858 395
PTDA 1,5/7-3,5	1724977 407	PTS 1,5/6-PH-5,0	1805559 417	PTSM 0,5/ 2-2,5-H SMD R24	1702473 53	PTSM 0,5/6-2,5-H SMD R44	1771062 53
PTDA 1,5/7-PH-3,5	1725172 407	PTS 1,5/7-5,0-H	1792915 415	PTSM 0,5/ 2-2,5-H SMD WH R24	1814634 393	PTSM 0,5/6-2,5-H SMD WH R44	1814676 393
PTDA 1,5/8-3,5	1724996 407	PTS 1,5/ 7-7,5-H	1703090 415	PTSM 0,5/ 2-2,5-H THR R24	1770885 51	PTSM 0,5/ 6-2,5-H THR R32	1770924 51
PTDA 1,5/8-PH-3,5	1725185 407	PTS 1,5/ 7-PH-5,0	1805562 417	PTSM 0,5/ 2-2,5-H THR WH R24	1814498 391	PTSM 0,5/ 6-2,5-H THR WH R32	1814537 391
PTDA 1,5/9-3,5	1725003 407	PTS 1,5/ 8-5,0-H	1792928 415	PTSM 0,5/ 2-2,5-V SMD R44	1771091 53	PTSM 0,5/ 6-2,5-V SMD R44	1771130 53
PTDA 1,5/9-PH-3,5	1725198 407	PTS 1,5/ 8-7,5-H	1703091 415	PTSM 0,5/ 2-2,5-V SMD WH R44	1814702 393	PTSM 0,5/ 6-2,5-V SMD WH R44	1814744 393
PTDA 1,5/10-3,5	1725016 407	PTS 1,5/8-PH-5,0	1805575 417	PTSM 0,5/ 2-2,5-V THR R44	1770953 51	PTSM 0,5/ 6-2,5-V THR R44	1770995 51
PTDA 1,5/10-PH-3,5	1725211 407	PTS 1,5/9-5,0-H	1792931 415	PTSM 0,5/ 2-2,5-V THR WH R44	1814566 391	PTSM 0,5/ 6-2,5-V THR WH R44	1814605 391
PTDA 1,5/11-3,5	1725029 407	PTS 1,5/9-7,5-H	1703093 415	PTSM 0,5/ 2-HH-2,5-THR R16	1778625 59	PTSM 0,5/ 6-HH-2,5-THR R32	1778667 59
PTDA 1,5/11-PH-3,5	1725224 407	PTS 1,5/9-PH-5,0	1805588 417	PTSM 0,5/ 2-HH-2,5-THR WH R16	1814841 397	PTSM 0,5/ 6-HH-2,5-THR WH R32	1814883 397
PTDA 1,5/12-3,5	1725042 407	PTS 1,5/10-5,0-H	1792944 415	PTSM 0,5/2-HH0-2,5-SMD R32	1808190 59	PTSM 0,5/ 6-HH0-2,5-SMD R44	1808239 59
PTDA 1,5/12-PH-3,5	1725237 407	PTS 1,5/10-7,5-H	1703094 415	PTSM 0,5/2-HH0-2,5-SMD WH R32	1814919 397	PTSM 0,5/ 6-HH0-2,5-SMD WH R44	1814951 397
PTDA 1,5/13-3,5	1725055 407	PTS 1,5/10-PH-5,0	1805591 417	PTSM 0,5/2-HHI-2,5-THR R24	1815057 61	PTSM 0,5/ 6-HHI-2,5-THR R32	1815099 61
PTDA 1,5/13-PH-3,5	1725250 407	PTS 1,5/11-5,0-H	1792957 415	PTSM 0,5/2-HHI-2,5-THR WH R24	1814980 399	PTSM 0,5/ 6-HHI-2,5-THR WH R32	1815028 399
PTDA 1,5/14-3,5	1725068 407	PTS 1,5/11-7,5-H	1703095 415	PTSM 0,5/2-HHI0-2,5-SMD R24	1815125 61	PTSM 0,5/ 6-HHI0-2,5-SMD R44	1815167 61
PTDA 1,5/14-PH-3,5	1725263 407	PTS 1,5/11-PH-5,0	1805601 417	PTSM 0,5/2-HHI0-2,5-SMD WHR24	1815196 399	PTSM 0,5/ 6-HHI0-2,5-SMD WHR44	1815235 399
PTDA 1,5/15-3,5	1725081 407	PTS 1,5/12-5,0-H	1792960 415	PTSM 0,5/2-HV-2,5-THR R32	1778557 59	PTSM 0,5/ 6-HV-2,5-THR R32	1778599 59
PTDA 1,5/15-PH-3,5	1725276 407	PTS 1,5/12-7,5-H	1703096 415	PTSM 0,5/2-HV-2,5-THR WH R32	1815264 397	PTSM 0,5/ 6-HV-2,5-THR WH R32	1815303 397
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PTSM 0,5/7-2,5-H THR R32	1770937 51	QC 0,5/12-ST-3,81	1897490 204	RPS	0201647 831	SK 2,8 WH:REEL	0805205 796
PTSM 0,5/7-2,5-H THR WH R32	1814540 391	QC 0,5/12-STF-3,81	1897649 205	RW 5	3073584 624	SK 3,5/2,8:FORTL.ZAHLEN	0804073 797
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PTSM 0,5/7-2,5-V SMD WH R44	1814757 393	QC 0,5/13-STF-3,81	1897652 205	RW 5-POT/S	3073678 625	SK 3,81/2,8:FORTL.ZAHLEN	0804109 797
PTSM 0,5/7-2,5-V THR R44	1771004 51	QC 0,5/14-ST-3,81	1897513 204	RW 5/S	3073597 624	SK 5,0 WH:REEL	0805221 800
PTSM 0,5/7-2,5-V THR WH R44	1814618 391	QC 0,5/14-STF-3,81	1897665 205	RW 8	3073607 626	SK 5,08/2,8:FORTL.ZAHLEN	0804280 797
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PTSM 0,5/7-HH-2,5-THR WH R44	1814896 397	QC 0,5/15-STF-3,81	1897678 205	RW 8-POT/S	3073694 627	SK 5/3,8:FORTL.ZAHLEN	0804183 798
PTSM 0,5/7-HH0-2,5-SMD R44	1808242 59	QC 0,5/16-ST-3,81	1897539 204	RW 8/S	3073610 626	SK 6,2/3,8:FORTL.ZAHLEN	0804374 799
PTSM 0,5/7-HH0-2,5-SMD WH R4-	4 1814964 397	QC 0,5/16-STF-3,81	1897681 205	RWO 10	3056158 636	SK 7,5/3,8:FORTL.ZAHLEN	0804455 799
PTSM 0,5/7-HHI-2,5-THR R32	1815109 61	QC 1,5/2-ST	1717961 292	RWO 10-TC	3074952 637	SK 7,5/5:FORTL.ZAHLEN	0804468 800
PTSM 0,5/7-HHI-2,5-THR WH R32	1815031 399	QC 1,5/2-STF	1718119 293	RWO 10-TC/S	3074965 637	SK 7,62/3,8:FORTL.ZAHLEN	0804549 799
PTSM 0,5/7-HHI0-2,5-SMD R44	1815170 61	QC 1,5/3-ST	1717974 292	RWO 10/S	3056161 636	SK 7,62/5:FORTL.ZAHLEN	0804552 800
PTSM 0,5/7-HHI0-2,5-SMD WHR4-	4 1815248 399	QC 1,5/3-STF	1718122 293	RWO 5	3056116 628	SK 10,0 WH:REEL	0812188 801
PTSM 0,5/7-HV-2,5-THR R44	1778609 59	QC 1,5/4-ST	1717987 292	RWO 5-POT	3056190 629	SK 2,8 REEL P2,54 WH CUS	0825120 796
PTSM 0,5/7-HV-2,5-THR WH R44	1815316 397	QC 1,5/4-STF	1718135 293	RWO 5-POT-TC	3074994 633	SK 2,8 REEL P3,5 WH CUS	0825121 797
PTSM 0,5/7-P-2,5	1778887 55	QC 1,5/5-ST	1717990 292	RWO 5-POT-TC/S	3075003 633	SK 2,8 REEL P3,81 WH CUS	0825122 797
PTSM 0,5/7-P-2,5 WH	1704860 395	QC 1,5/5-STF	1718148 293	RWO 5-POT/S	3056200 629	SK 2,8 REEL P5,08 WH CUS	0825123 797
PTSM 0,5/8-2,5-H SMD R44	1771088 53	QC 1,5/6-ST	1718009 292	RWO 5-TC	3074910 632	SK 3,8 REEL P5 WH CUS	0825124 798
PTSM 0,5/8-2,5-H SMD WH R44	1814692 393	QC 1,5/6-STF	1718151 293	RWO 5-TC/S	3074923 632	SK 3,8 REEL P5,08 WH CUS	0825125 798
PTSM 0,5/8-2,5-H THR R32	1770940 51	QC 1,5/7-ST	1718012 292	RWO 5/S	3056129 628	SK 3,8 REEL P6,2 WH CUS	0825126 799
PTSM 0,5/8-2,5-H THR WH R32	1814553 391	QC 1,5/7-STF	1718164 293	RWO 8	3056132 630	SK 3,8 REEL P7,5 WH CUS	0825127 799
PTSM 0,5/8-2,5-V SMD R44	1771156 53	QC 1,5/8-ST	1718025 292	RWO 8-POT	3056213 631	SK 3,8 REEL P7,62 WH CUS	0825128 799
PTSM 0,5/8-2,5-V SMD WH R44	1814760 393	QC 1,5/8-STF	1718177 293	RWO 8-POT-TC	3075016 635	SK 5,0 REEL P7,5 WH CUS	0825131 800
PTSM 0,5/8-2,5-V THR R44	1771017 51	QC 1,5/9-ST	1718038 292	RWO 8-POT-TC/S	3075029 635	SK 5,0 REEL P7,62 WH CUS	0825132 800
PTSM 0,5/8-2,5-V THR WH R44	1814621 391	QC 1,5/9-STF	1718180 293	RWO 8-POT/S	3056226 631	SK U/2,8 WH:UNBEDRUCKT	0803883 796
PTSM 0,5/8-HH-2,5-THR R44	1778683 59	QC 1,5/10-ST	1718041 292	RWO 8-TC	3074936 634	SK U/3,8 WH:UNBEDRUCKT	0803906 798
PTSM 0,5/8-HH-2,5-THR WH R44	1814906 397	QC 1,5/10-STF	1718193 293	RWO 8-TC/S	3074949 634	SK U/5,0 WH:UNBEDRUCKT	0803922 800
PTSM 0,5/8-HH0-2,5-SMD R44	1815112 61	QC 1,5/11-ST	1718054 292	RWO 8/S	3056145 630	SKBI 31	2201519 776
PTSM 0,5/8-HH0-2,5-SMD WH R44		QC 1,5/11-STF	1718203 293	RWOV 5	3056271 629	SKBI 32/C	2261038 778
PTSM 0,5/8-HHI-2,5-THR R32		QC 1,5/12-ST	1718067 292	RWOV 5-POT	3056310 629	SKBI 32/D	2261054 779
PTSM 0,5/8-HHI-2,5-THR WH R32		QC 1,5/12-STF	1718216 293	RWOV 5-POT-TC	3075113 633	SKBI 32/F/ZB	2261096 779
PTSM 0,5/8-HHI0-2,5-SMD R44	1815183 61	QC 1,5/13-ST	1718070 292	RWOV 5-POT-TC/S	3075126 633	SKBI 32/F/ZD	2261106 779
PTSM 0,5/8-HHI0-2,5-SMD WHR4-	4 1815251 399	QC 1,5/13-STF	1718229 293	RWOV 5-POT/S	3056323 629	SKBI 64/B64	2263023 780
PTSM 0,5/8-HV-2,5-THR R44	1778612 59	QC 1,5/14-ST	1718083 292	RWOV 5-TC	3075074 633	SKBI 64/C32	2265034 781
PTSM 0,5/8-HV-2,5-THR WH R44	1815329 397	QC 1,5/14-STF	1718232 293	RWOV 5-TC/S	3075087 633	SKBI 64/C64	2263036 781
PTSM 0,5/8-P-2,5	1778890 55	QC 1,5/15-ST	1718096 292	RWOV 5/S	3056284 629	SKBI 64/D32	2265050 782
PTSM 0,5/8-P-2,5 WH	1704861 395	QC 1,5/15-STF	1718245 293	RWOV 8	3056297 631	SKBI 64/E48	2264080 783
PTSM 0,5/10-HH-2,5-THR R44	1701569 59	QC 1,5/16-ST	1718106 292	RWOV 8-POT	3056336 631	SKBI 64/F48	2264093 783
PTSM 0,5/10-HV-2,5-THR R44	1701567 59	QC 1,5/16-STF	1718258 293	RWOV 8-POT-TC	3075139 635	SKBI 64/G64	2263117 783
PTSPL-6/1-2X2 2,1 R32	1704836 475	QC 1/2-ST-5,08	1883255 290	RWOV 8-POT-TC/S	3075142 635	SKBI 64/H15-MKDS3	2269140 784
PTSPL-6/1-2X2 2,9 R32	1704837 475	QC 1/2-ST-BUS	1921670 291	RWOV 8-POT/S	3056349 631	SKBI 64/H15-MKDS5	2269153 785
PTSPLO-6/1-2X2 2,1 R32	1705081 475	QC 1/2-STF-5,08	1883352 291	RWOV 8-TC	3075090 635	SKBI 128-B64/B64	2268028 786
PTSPLO-6/1-2X2 2,9 R32	1705085 475	QC 1/3-ST-5,08	1883268 290	RWOV 8-TC/S	3075100 635	SKBI 128-C32/C32	2270032 786
PW 4-POT-SCM	3056938 601	QC 1/3-ST-BUS	1921683 291	RWOV 8/S	3056307 631	SKBI 128-C64/C64	2268031 786
PW 4-POT-SCM/S	3056941 601	QC 1/3-STF-5,08	1883365 291	RWV 5	3073746 625	SKBI 128-D32/D32	2270058 786
PW 4-POT-SL	3059731 601	QC 1/4-ST-5,08	1883271 290	RWV 5-POT	3073788 625	SKBI 128-E48/E48	2269085 786
PW 4-POT-SL/S	3059744 601	QC 1/4-ST-BUS	1921696 291	RWV 5-POT/S	3073791 625	SKBI 128-F48/F48	2269098 786
PWO 16-POT	1705653 604	QC 1/4-STF-5,08	1883378 291	RWV 5/S	3073759 625	SKBI 128-G64/G64	2268112 786
PWO 16-POT/S	1705654 604	QC 1/5-ST-5,08	1883284 290	RWV 8	3073762 627	SL2-2,54/16-ST	2896348 698
PWO 4-POT-SCM	3056912 603	QC 1/5-ST-BUS	1921706 291	RWV 8-POT	3073801 627	SMC 1,5/2-G-3,81	1827279 228
PWO 4-POT-SCM/S	3056925 603	QC 1/5-STF-5,08	1883381 291	RWV 8-POT/S	3073814 627	SMC 1,5/2-GF-3,81	1827428 229
PWO 4-POT-SL PWO 4-POT-SL/S	3059715 603 3059728 603	QC 1/6-ST-5,08 QC 1/6-ST-BUS QC 1/6-STF-5,08 QC 1/7-ST-5,08	1883297 290 1921719 291 1883394 291 1883307 290	RWV 8/S	3073775 627	SMC 1,5/3-G-3,81 SMC 1,5/3-GF-3,81 SMC 1,5/4-G-3,81 SMC 1,5/4-GF-3,81	1827282 228 1827431 229 1827295 228 1827444 229
Q		QC 1/7-STF-5,08 QC 1/8-ST-5,08 QC 1/8-STF-5,08 QC 1/9-ST-5,08	1883404 291 1883310 290 1883417 291 1883323 290	S		SMC 1,5/5-G-3,81 SMC 1,5/5-GF-3,81 SMC 1,5/6-G-3,81 SMC 1,5/6-GF-3,81	1827305 228 1827457 229 1827318 228 1827460 229
QC 0,5/ 2-ST-3,81	1897393 204	QC 1/9-STF-5,08	1883420 291	SF-M SET	1212543 768	SMC 1,5/7-G-3,81	1827321 228
QC 0,5/ 2-STF-3,81	1897542 205	QC 1/10-ST-5,08	1883336 290	SF-SKBI 31/32	2261009 776	SMC 1,5/7-GF-3,81	1827473 229
QC 0,5/ 3-ST-3,81	1897403 204	QC 1/10-STF-5,08	1883433 291	SF-SKBI 64	2263007 780	SMC 1,5/8-G-3,81	1827334 228
QC 0,5/ 3-STF-3,81	1897555 205	QC 1/11-ST-5,08	1883349 290	SF-TXH SET	1212538 768	SMC 1,5/8-GF-3,81	1827486 229
QC 0,5/4-ST-3,81	1897416 204	QC 1/11-STF-5,08	1883446 291	SFLY 2,5/D32	2285467 788	SMC 1,5/9-G-3,81	1827347 228
QC 0,5/4-STF-3,81	1897568 205	QC 1/12-ST-5,08	1883705 290	SFLY 2,5/F32/ZB	2285506 788	SMC 1,5/9-GF-3,81	1827499 229
QC 0,5/5-ST-3,81	1897429 204	QC 1/12-STF-5,08	1883459 291	SI FORM C 2 A	0913689 165	SMC 1,5/10-G-3,81	1827350 228
QC 0,5/5-STF-3,81	1897571 205	QC 1/13-ST-5,08	1883815 290	SI FORM C 4 A DIN 72581	0913731 165	SMC 1,5/10-GF-3,81	1827509 229
QC 0,5/6-ST-3,81	1897432 204	QC 1/13-STF-5,08	1883857 291	SI FORM C 5 A DIN 72581	0913692 165	SMC 1,5/11-G-3,81	1827363 228
QC 0,5/6-STF-3,81	1897584 205	QC 1/14-ST-5,08	1883828 290	SI FORM C 10 A DIN 72581	0913715 165	SMC 1,5/11-GF-3,81	1827512 229
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SPT 2,5/7-H-5,0	1991024 143	SPT-THR 1,5/4-H-3,5 P20 R32	1823654 79	SPT-THR 1,5/9-H-3,5 P20 R72	1823706 79	SPTA 1,5/10-3,81	1751545 139
SPT 2,5/7-H-5,0-EX	1732438 163	SPT-THR 1,5/4-H-3,5 P26	1822778 78	SPT-THR 1,5/9-H-3,5 P26	1822820 78	SPTA 1,5/10-5,08	1751244 139
SPT 2,5/ 7-V-5,0	1991147 143	SPT-THR 1,5/4-H-3,81 P20 R32	1823764 79	SPT-THR 1,5/9-H-3,81 P20 R72	1823816 79	SPTA 1,5/11-3,81	1743197 139
SPT 2,5/ 7-V-5,0-EX	1732548 163	SPT-THR 1,5/4-H-3,81 P26	1822888 78	SPT-THR 1,5/9-H-3,81 P26	1822930 78	SPTA 1,5/11-5,08	1751257 139
SPT 2,5/ 8-H-5,0	1991037 143	SPT-THR 1,5/4-H-5,0 P20 R32	1823874 81	SPT-THR 1,5/9-H-5,0 P20 R88	1823926 81	SPTA 1,5/12-3,81	1751558 139
SPT 2,5/ 8-H-5,0-EX	1732441 163	SPT-THR 1,5/4-H-5,0 P26	1822998 80	SPT-THR 1,5/9-H-5,0 P26	1823049 80	SPTA 1,5/12-5,08	1751464 139
SPT 2,5/8-V-5,0	1991150 143	SPT-THR 1,5/4-H-5,08 P20 R32	1823984 81	SPT-THR 1,5/9-H-5,08 P20 R88	1824035 81	SPTA 1/2-3,5	1752104 137
SPT 2,5/8-V-5,0-EX	1732551 163	SPT-THR 1,5/4-H-5,08 P26	1823104 80	SPT-THR 1,5/9-H-5,08 P26	1823159 80	SPTA 1/2-5,0	1752214 137
SPT 2,5/9-H-5,0	1991040 143	SPT-THR 1,5/4-V-3,5 P20 R44	1823214 79	SPT-THR 1,5/9-V-3,5 P20 R72	1823269 79	SPTA 1/3-3,5	1752117 137
SPT 2,5/9-H-5,0-EX	1732454 163	SPT-THR 1,5/4-V-3,5 P26	1822338 79	SPT-THR 1,5/9-V-3,5 P26	1822383 79	SPTA 1/3-5,0	1752227 137
SPT 2,5/9-V-5,0	1991163 143	SPT-THR 1,5/4-V-3,81 P20 R44	1823324 79	SPT-THR 1,5/9-V-3,81 P20 R72	1823379 79	SPTA 1/4-3,5	1752120 137
SPT 2,5/9-V-5,0-EX	1732564 163	SPT-THR 1,5/4-V-3,81 P26	1822448 79	SPT-THR 1,5/9-V-3,81 P26	1822493 79	SPTA 1/4-5,0	1752230 137
SPT 2,5/10-H-5,0	1991053 143	SPT-THR 1,5/4-V-5,0 P20 R56	1823434 81	SPT-THR 1,5/9-V-5,0 P20 R88	1823489 81	SPTA 1/5-3,5	1752133 137
SPT 2,5/10-H-5,0-EX	1732467 163	SPT-THR 1,5/4-V-5,0 P26	1822558 81	SPT-THR 1,5/9-V-5,0 P26	1822600 81	SPTA 1/5-5,0	1752243 137
SPT 2,5/10-V-5,0	1991176 143	SPT-THR 1,5/4-V-5,08 P20 R56	1823544 81	SPT-THR 1,5/9-V-5,08 P20 R88	1823599 81	SPTA 1/6-3,5	1752146 137
SPT 2,5/10-V-5,0-EX	1732577 163	SPT-THR 1,5/4-V-5,08 P26	1822668 81	SPT-THR 1,5/9-V-5,08 P26	1822710 81	SPTA 1/6-5,0	1752256 137
SPT 2,5/11-H-5,0	1991066 143	SPT-THR 1,5/5-H-3,5 P20 R32	1823667 79	SPT-THR 1,5/10-H-3,5 P20 R72	1823719 79	SPTA 1/7-3,5	1752159 137
SPT 2,5/11-H-5,0-EX	1732470 163	SPT-THR 1,5/5-H-3,5 P26	1822781 78	SPT-THR 1,5/10-H-3,5 P26	1822833 78	SPTA 1/7-5,0	1752269 137
SPT 2,5/11-V-5,0	1991189 143	SPT-THR 1,5/5-H-3,81 P20 R32	1823777 79	SPT-THR 1,5/10-H-3,81 P20 R72	1823829 79	SPTA 1/8-3,5	1752162 137
SPT 2,5/11-V-5,0-EX	1732580 163	SPT-THR 1,5/5-H-3,81 P26	1822891 78	SPT-THR 1,5/10-H-3,81 P26	1822943 78	SPTA 1/8-5,0	1752272 137
SPT 2,5/12-H-5,0	1991079 143	SPT-THR 1,5/5-H-5,0 P20 R56	1823887 81	SPT-THR 1,5/10-H-5,0 P20 R88	1823939 81	SPTA 1/9-3,5	1752175 137
SPT 2,5/12-H-5,0-EX	1732483 163	SPT-THR 1,5/5-H-5,0 P26	1823007 80	SPT-THR 1,5/10-H-5,0 P26	1823052 80	SPTA 1/9-5,0	1752285 137
SPT 2,5/12-V-5,0	1991192 143	SPT-THR 1,5/5-H-5,08 P20 R56	1823997 81	SPT-THR 1,5/10-H-5,08 P20 R88	1824048 81	SPTA 1/10-3,5	1752188 137
SPT 2,5/12-V-5,0-EX	1732593 163	SPT-THR 1,5/5-H-5,08 P26	1823117 80	SPT-THR 1,5/10-H-5,08 P26	1823162 80	SPTA 1/10-5,0	1752298 137
SPT 5/1-H-7,5	1719189 463	SPT-THR 1,5/5-V-3,5 P20 R44	1823227 79	SPT-THR 1,5/10-V-3,5 P20 R72	1823272 79	SPTA 1/11-3,5	1752191 137
SPT 5/1-V-7,5	1719309 465	SPT-THR 1,5/5-V-3,5 P26	1822341 79	SPT-THR 1,5/10-V-3,5 P26	1822396 79	SPTA 1/11-5,0	1752308 137
SPT 5/2-H-7,5-ZB	1719192 463	SPT-THR 1,5/5-V-3,81 P20 R44	1823337 79	SPT-THR 1,5/10-V-3,81 P20 R72	1823382 79	SPTA 1/12-3,5	1752201 137
SPT 5/2-V-7,5-ZB	1719312 465	SPT-THR 1,5/5-V-3,81 P26	1822451 79	SPT-THR 1,5/10-V-3,81 P26	1822503 79	SPTA 1/12-5,0	1752311 137
SPT 5/3-H-7,5-ZB	1719202 463	SPT-THR 1,5/5-V-5,0 P20 R56	1823447 81	SPT-THR 1,5/10-V-5,0 P20 R88	1823492 81	SS-ZB WH	5031171 754
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SPT 5/4-H-7,5-ZB	1719215 463	SPT-THR 1,5/5-V-5,08 P20 R56	1823557 81	SPT-THR 1,5/10-V-5,08 P20 R88	1823609 81	ST-MKDSP 3/5	1718207 832
SPT 5/4-V-7,5-ZB	1719338 465	SPT-THR 1,5/5-V-5,08 P26	1822671 81	SPT-THR 1,5/10-V-5,08 P26	1822723 81	STG-MTN 0,5-1,0	3190438 827
SPT 5/5-H-7,5-ZB	1719228 463	SPT-THR 1,5/6-H-3,5 P20 R44	1823670 79	SPT-THR 1,5/11-H-3,5 P20 R72	1823722 79	STG-MTN 0,5-1,0 BA	3190629 827
SPT 5/5-V-7,5-ZB	1719341 465	SPT-THR 1,5/6-H-3,5 P26	1822794 78	SPT-THR 1,5/11-H-3,5 P26	1822846 78	STG-MTN 1,5-2,5	3190506 827
SPT 5/6-H-7,5-ZB	1719231 463	SPT-THR 1,5/6-H-3,81 P20 R44	1823780 79	SPT-THR 1,5/11-H-3,81 P20 R72	1823832 79	STG-MTN 1,5-2,5 BAND	3190632 827
SPT 5/6-V-7,5-ZB	1719354 465	SPT-THR 1,5/6-H-3,81 P26	1822901 78	SPT-THR 1,5/11-H-3,81 P26	1822956 78	STZ 2-MSTBC-5,08	1810529 828
SPT 5/7-H-7,5-ZB	1719244 463	SPT-THR 1,5/6-H-5,0 P20 R56	1823890 81	SPT-THR 1,5/11-H-5,0 P20 R88	1823942 81	STZ 2-PCC 4-7,62	1840214 828
SPT 5/7-V-7,5-ZB	1719367 465	SPT-THR 1,5/6-H-5,0 P26	1823010 80	SPT-THR 1,5/11-H-5,0 P26	1823065 80	STZ 3-PCC 4-7,62	1840227 828
SPT 5/8-H-7,5-ZB	1719257 463	SPT-THR 1,5/6-H-5,08 P20 R56	1824006 81	SPT-THR 1,5/11-H-5,08 P20 R88	1824051 81	STZ 4-MSTBC-5,08	1810532 828
SPT 5/8-V-7,5-ZB	1719370 465	SPT-THR 1,5/6-H-5,08 P26	1823120 80	SPT-THR 1,5/11-H-5,08 P26	1823175 80	STZ 5-PCC 4-7,62 GN	1842005 828
SPT 5/9-H-7,5-ZB	1719260 463	SPT-THR 1,5/6-V-3,5 P20 R44	1823230 79	SPT-THR 1,5/11-V-3,5 P20 R72	1823285 79	STZ 8-FKC-5,08	1876880 837
SPT 5/9-V-7,5-ZB	1719383 465	SPT-THR 1,5/6-V-3,5 P26	1822354 79	SPT-THR 1,5/11-V-3,5 P26	1822406 79	STZ 8-MSTBC-5,08	1810516 828
SPT 5/10-H-7,5-ZB	1719273 463	SPT-THR 1,5/6-V-3,81 P20 R44	1823340 79	SPT-THR 1,5/11-V-3,81 P20 R72	1823395 79	STZ 8-PCC 4-7,62	1840230 828
SPT 5/10-V-7,5-ZB	1719396 465	SPT-THR 1,5/6-V-3,81 P26	1822464 79	SPT-THR 1,5/11-V-3,81 P26	1822516 79	STZ 12-MSTBC-5,08	1810503 828
SPT 5/11-H-7,5-ZB	1719286 463	SPT-THR 1,5/6-V-5,0 P20 R56	1823450 81	SPT-THR 1,5/11-V-5,0 P20 R88	1823502 81	STZ 4-FKC-5,08	1876877 837
SPT 5/11-V-7,5-ZB	1719406 465	SPT-THR 1,5/6-V-5,0 P26	1822574 81	SPT-THR 1,5/11-V-5,0 P26	1822626 81	SZF 0-0,4X2,5	1204504 748
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SPT-THR 1,5/2-H-3,81 P20 R24 SPT-THR 1,5/2-H-3,81 P26 SPT-THR 1,5/2-H-5,0 P20 R24 SPT-THR 1,5/2-H-5,0 P26	1823748 79 1822862 78 1823858 81 1822972 80	SPT-THR 1,5/7-H-3,81 P20 R44 SPT-THR 1,5/7-H-3,81 P26 SPT-THR 1,5/7-H-5,0 P20 R56 SPT-THR 1,5/7-H-5,0 P26	1823793 79 1822914 78 1823900 81 1823023 80	SPT-THR 1,5/12-H-3,81 P20 R72 SPT-THR 1,5/12-H-3,81 P26 SPT-THR 1,5/12-H-5,0 P20 R88 SPT-THR 1,5/12-H-5,0 P26	1823845 79 1822969 78 1823955 81 1823078 80	т	
SPT-THR 1,5/2-H-5,08 P20 R24	1823968 81	SPT-THR 1,5/7-H-5,08 P20 R56	1824019 81	SPT-THR 1,5/12-H-5,08 P20 R88	1824064 81	TFKC 2,5/2-ST-5,08	1962600 284
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TFKC 2,5/ 8-STF-5,08 AU	1710272 285	TPC 16/7-ST-10,16	1715222 556	UEG 20-FS/FS	2790266 723	UM-ALU 4-100,5 FRONT 990	2200950 744
TFKC 2,5/ 9-ST-5,08	1962671 284	TPC 16/7-STF-10,16	1715303 557	UEG 30/1	2790871 723	UM-ALU 4-100,5 PROFILE 130	2200938 744
TFKC 2,5/ 9-STF-5,08	1962765 285	TPC 16/8-ST-10,16	1715235 556	UEG 30/1-FS/FS	2790884 723	UM-ALU 4-100,5 PROFILE 165	2200939 744
TFKC 2,5/10-ST-5,08	1962684 284	TPC 16/8-STF-10,16	1715316 557	UEG 30/2	2790240 723	UM-ALU 4-100,5 PROFILE 200	2200940 744
TFKC 2,5/10-STF-5,08	1962778 285	TPC 16/9-ST-10,16	1715248 556	UEG 30/2-FS/FS	2790279 723	UM-ALU 4-100,5 PROFILE 235	2200941 744
TFMC 1,5/2-ST-3,5	1772618 202	TPC 16/9-STF-10,16	1715329 557	UEG-EU-BE	2956819 739	UM-ALU 4-100,5 PROFILE 42,5	2200935 744
TFMC 1,5/2-STF-3,5	1772702 203	TSPC 5/2-ST-7,62	1728455 532	UEG-EU-SE	2956822 739	UM-ALU 4-100,5 PROFILE 60	2200936 744
TFMC 1,5/3-ST-3,5	1772621 202	TSPC 5/2-STCL-7,62	1765418 533	UEG-EU-VS	5028883 739	UM-ALU 4-100,5 PROFILE 95	2200937 744
TFMC 1,5/3-STF-3,5	1772715 203	TSPC 5/2-STF-7,62	1728206 533	UEG-MT-FS	2790389 724	UM-ALU 4-100,5 PROFILE 990	2200942 744
TFMC 1,5/4-ST-3,5	1772634 202	TSPC 5/3-ST-7,62	1728468 532	UEGH 22,5	2757102 726	UM-ALU 4-72 COVER AL	2200933 744
TFMC 1,5/4-STF-3,5	1772728 203	TSPC 5/3-STCL-7,62	1765421 533	UEGH 25	2757115 726	UM-ALU 4-72 COVER PA BK	2200934 744
TFMC 1,5/5-ST-3,5	1772647 202	TSPC 5/ 3-STF-7,62	1728219 533	UEGH 27,5-SMD	2757128 726	UM-ALU 4-72 FRONT 130	2200928 744
TFMC 1,5/5-STF-3,5	1772731 203	TSPC 5/ 4-ST-7,62	1728471 532	UEGH 40/1	2757144 727	UM-ALU 4-72 FRONT 165	2200929 744
TFMC 1,5/6-ST-3,5	1772650 202	TSPC 5/ 4-STCL-7,62	1765434 533	UEGH 40/2	2757131 727	UM-ALU 4-72 FRONT 200	2200930 744
TFMC 1,5/6-STF-3,5	1772744 203	TSPC 5/ 4-STF-7,62	1728222 533	UEGH 42,5/1-SMD	2757157 727	UM-ALU 4-72 FRONT 235	2200931 744
TFMC 1,5/7-ST-3,5	1772663 202	TSPC 5/5-ST-7,62	1728484 532	UEGH 42,5/2-SMD	2757160 727	UM-ALU 4-72 FRONT 42,5	2200925 744
TFMC 1,5/7-STF-3,5	1772757 203	TSPC 5/5-STCL-7,62	1765447 533	UEGH 45/2-SMD	2757173 727	UM-ALU 4-72 FRONT 60	2200926 744
TFMC 1,5/8-ST-3,5	1772676 202	TSPC 5/5-STF-7,62	1728235 533	UEGM 22,5	2792002 724	UM-ALU 4-72 FRONT 95	2200927 744
TFMC 1,5/8-STF-3,5	1772760 203	TSPC 5/6-ST-7,62	1728497 532	UEGM 22,5-FS/FS	2792073 725	UM-ALU 4-72 FRONT 990	2200932 744
TFMC 1,5/9-ST-3,5	1772689 202	TSPC 5/ 6-STCL-7,62	1765450 533	UEGM 25	2792015 724	UM-ALU 4-72 PROFILE 130	2200920 744
TFMC 1,5/9-STF-3,5	1772773 203	TSPC 5/ 6-STF-7,62	1728248 533	UEGM 25-FS/FS	2792086 725	UM-ALU 4-72 PROFILE 165	2200921 744
TFMC 1,5/10-ST-3,5	1772692 202	TSPC 5/ 7-ST-7,62	1728507 532	UEGM 27,5-SMD	2757063 724	UM-ALU 4-72 PROFILE 200	2200922 744
TFMC 1,5/10-STF-3,5	1772786 203	TSPC 5/ 7-STCL-7,62	1765463 533	UEGM 40/1	2792112 725	UM-ALU 4-72 PROFILE 235	2200923 744
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THERMOMARK ROLL X1-CASE	5146724 821	TSPC 5/ 9-ST-7,62	1728523 532	UEGM-MSTB-BS	2781466 728	UM-ALU 6-161 MOUNT 150 GY	2201332 769
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