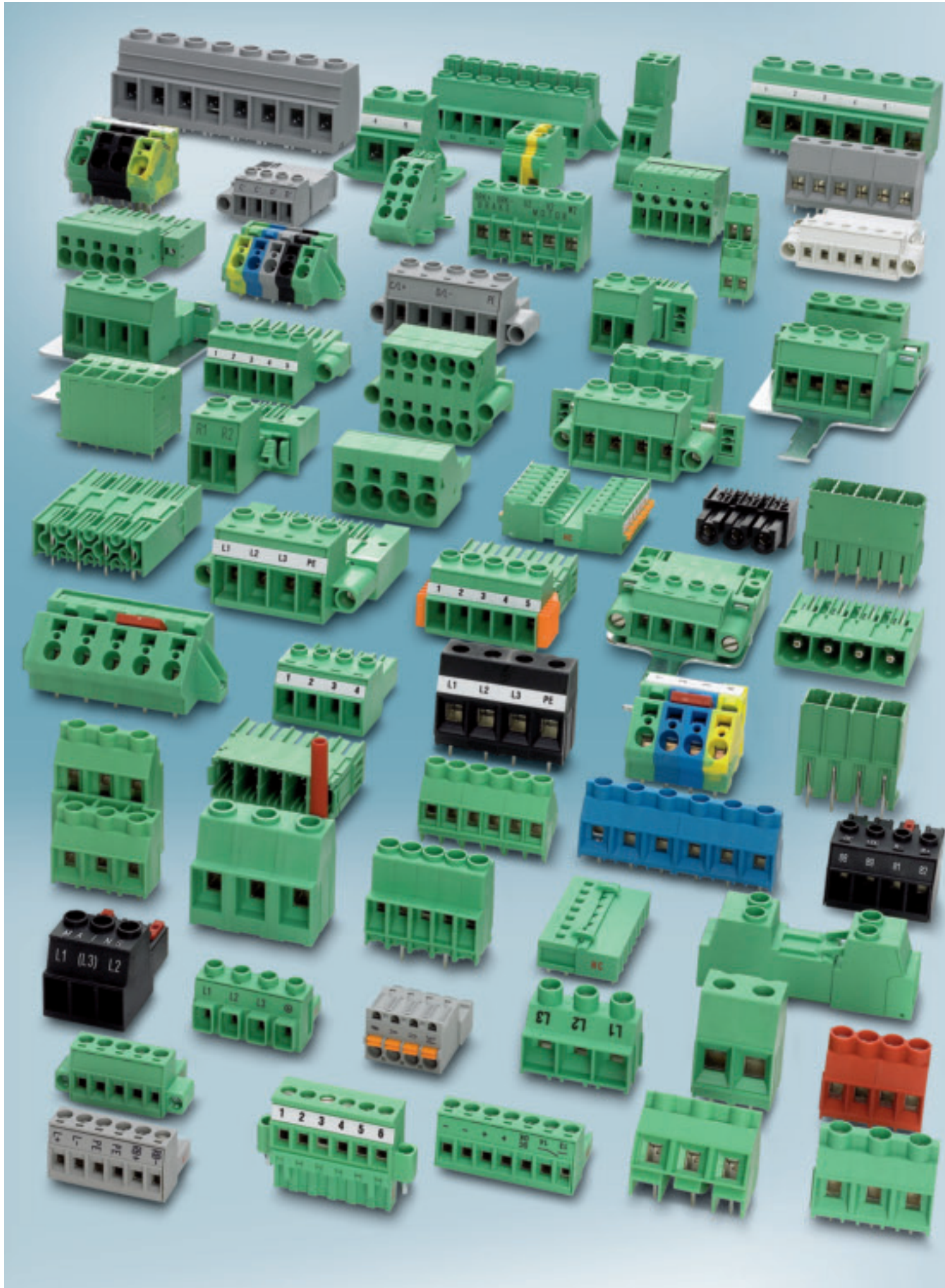




COMBICON power

PCB terminal blocks and connectors for power electronics

PCB terminal blocks

The high-performance PCB terminal blocks provide connection options for conductors with cross sections from 0.2 to 35 mm². The use of a tension sleeve or a spring-cage makes connecting the conductor a convenient matter. Complex and costly special aids with ring cable lugs, up-front DIN rails or packages of modular terminal blocks can be thus dispensed with.

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 in accordance with IEC / DIN VDE. The connection to the printed circuit board is established quickly and securely using the wave soldering method.

Connectors

The performance spectrum of power connectors starts in the lower segment with the high current HC series. Thanks to the highly conductive materials, the HC contact system achieves a current carrying capacity of 16 A. The conductor is connected using the proven screw connection method (tension sleeve principle) or alternatively with a spring-cage.

PC 4 is the best choice if you need currents of up to 20 A for the PCB. The classic POWER COMBICON has a convincing, compact design with a 7.62 mm pitch and UL approvals up to 600 V. In addition to the standard versions, products are also available for DIN rail mounting and panel feed-through.

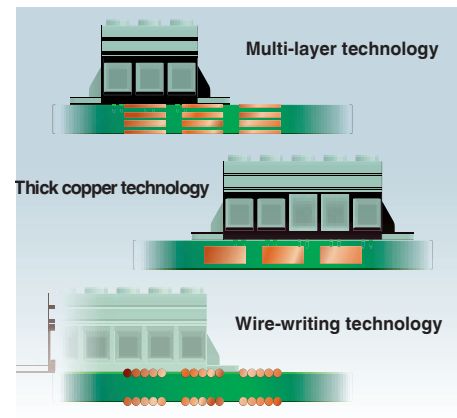
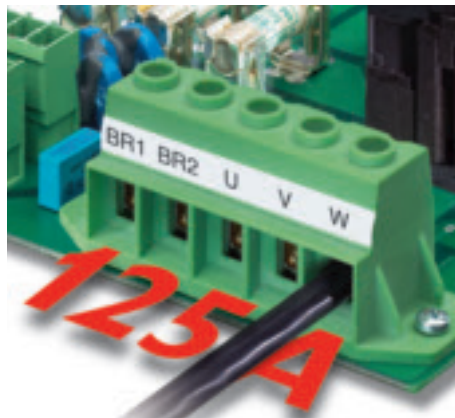
PC 5, PC 6, PC 16 and PC 35 are high-performance connectors for even larger conductor cross-sections with an enormous safety reserve. When connecting a 35 mm² conductor, the PC 35 contact system allows a current carrying capacity of 125 A. Power electronic components thus become universally pluggable and easy to service.

General	312
PCB terminal blocks with screw connection	315
MKDS 5 series up to 6 mm ²	315
MKDS 10 series up to 16 mm ²	323
MKDS 25 series up to 35 mm ²	327
Special types up to 16 mm ²	329
PCB terminal blocks with push-in spring-cage connection	335
SPT 5 series up to 6 mm ² / SPT 16 series up to 16 mm ²	335
PCB terminal blocks with push-lock spring-cage connection	343
PLH 16 series up to 16 mm ²	343
PCB terminal blocks with spring-cage connection	345
ZFKDS 4 series up to 4 mm ² / ZFKDS 10 series up to 16 mm ²	345
Connectors of the HC series up to 2.5 mm²	348
Plugs with screw and spring-cage connection	348
Headers for soldering in	354
Plug components with screw connection (HV / HCV)	358
Headers for soldering in	361
Connectors of the PC 4 series up to 4 mm²	366
Plugs with screw connection	366
Headers for soldering in	370
Housing feed-throughs	372
Special types/cable housings	375
Connectors of the PC 5 series up to 10 mm²	378
Plugs with screw and spring-cage connection	378
Headers for soldering in	390
Housing feed-throughs	398
Connectors of the PC 6 series up to 10 mm²	404
Plugs with screw connection	404
Plugs for direct fastening	406
Headers for soldering in	420
Connectors of the PC 16 series up to 16 mm²	408
Plugs with screw and spring-cage connection	408
Headers for soldering in	420
Housing feed-throughs	428
Connectors of the PC 35 series up to 35 mm²	440
Connectors with a screw connection	440
Headers / housing feed-throughs for soldering in	442
Sheet metal cutouts	444

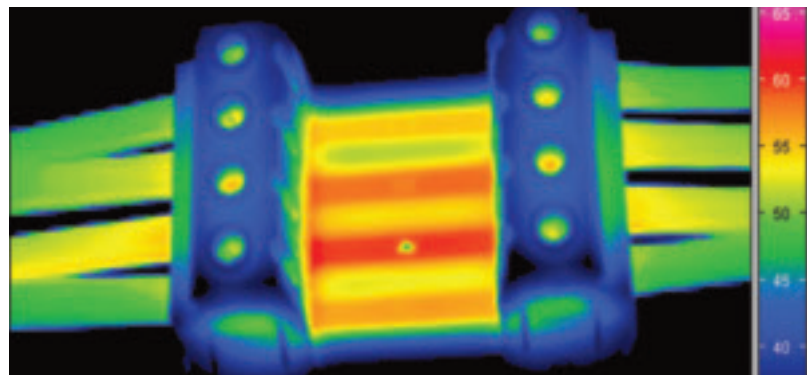
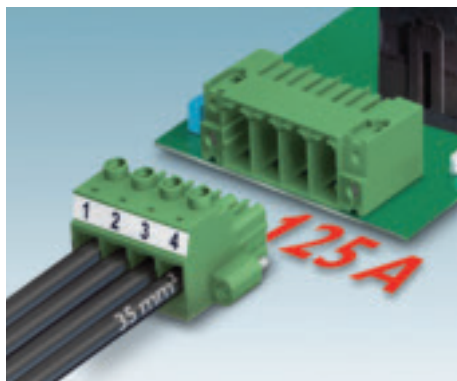
125 A through the PCB? It works!

Connectors of the COMBICON power product range provide a current carrying capacity of up to 125 A together with high-current PCBs.

Different PCB production technologies provide new options for device design. The required functions and modules can thus be provided in one single printed circuit board. The expensive additional device wiring is therefore no longer required.



PCB production technologies



Thermographic recording of a test application with 125 A

One connection for every application

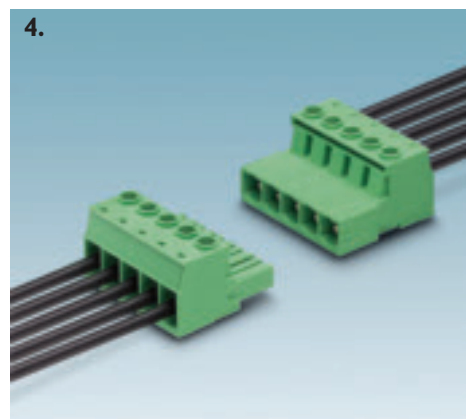
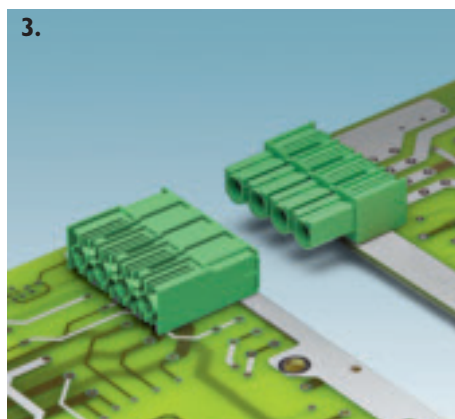
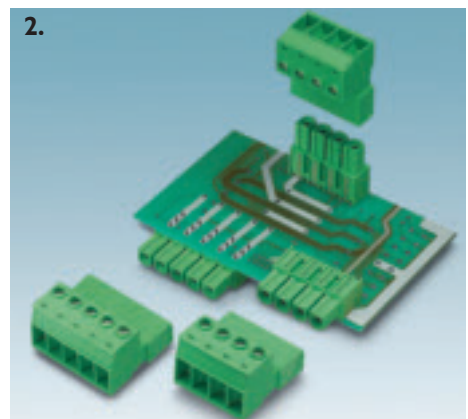
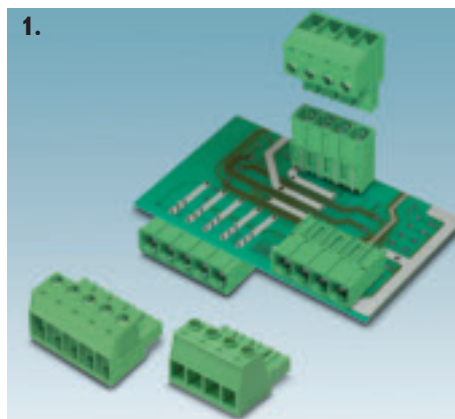
The wide variety of products in the COMBICON power range makes it possible to find a solution for almost every application.

1. The COMBICON plug-in system facilitates quick and easy replacement of printed circuit boards or device modules when servicing

2. Inverted plugs and headers of the COMBICON power product range provide the option of touch-proof printed circuit boards and device outputs

3. By using the inverted versions, PCB-PCB connections are possible. They allow a previously unattained flexibility in device design

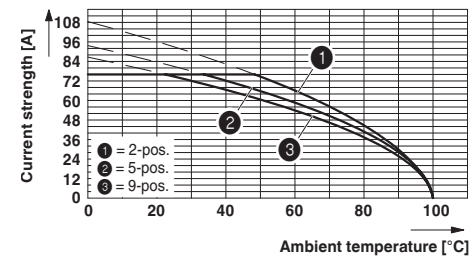
4. Furthermore, the modular system enables so-called freehanging connections (cable-cable). The connections can be screwed together in a vibration-resistant way (also possible as a shielded connection) with the use of STF-(SH) and STGF-(SH) versions



Current carrying capacity of connectors and PCB terminal blocks

Base curves and derating diagrams are provided in the catalog to determine the permitted current carrying capacity of the COMBICON power products. The maximum permitted current strength for a particular application can be read in accordance with the ambient temperature. The number of positions and the connection cross section of the conductor must be taken into account. For example,

the maximum current carrying capacity is 76 A for a 5-pos. connector having a connection cross section of 16 mm² and an ambient temperature of 34 °C. Please also refer to the laboratory data sheets of the corresponding products. Further information on this topic is listed on page 774.



Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram

Extra safety for high power

All connectors of the COMBICON power product range have an integrated double steel spring. This double spring provides additional safety in case of power and temperature fluctuations. Contact corrosion is prevented since the double steel spring exerts additional pressure on

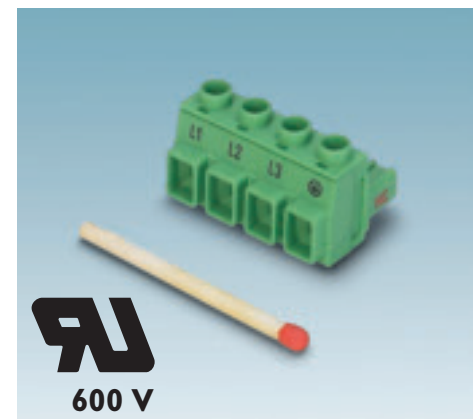
the contact. This results in the long-term stability of the contact resistance.



UL approvals for high-current applications

A UL approval is imperative especially for the international market. COMBICON power products therefore offer a 600 V UL approval for every application even in the case of the smallest dimensions. Product and device approvals must be distinguished in this case. The

COMBICON power flyer lists the approvals for the products and applications in detail.



Plug versions with shield connection/strain relief

The shielded plug versions (-STF-SH) of the COMBICON power product ranges PC 4, PC 5, PC 6, PC 16 and PC 35 provide a professional connection of the braided shield to avoid electric interferences and to meet EMC requirements.

1. Slip-on connection:

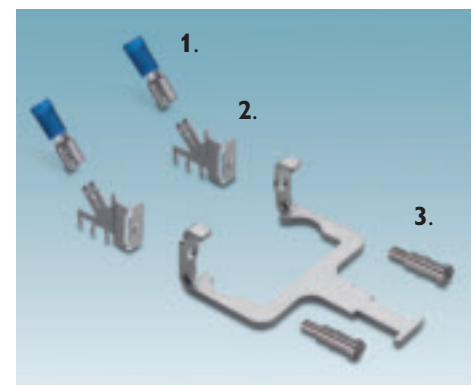
To reach the next reference point by the shortest possible route using a cable.

2. PCB-SHIELD

If the housing panel or front plate is not conductive, it is possible to route the shielding function directly to the PCB through the flange screw of the POWER COMBICON PCB-SHIELD.

3. Vibration-resistant connection:

The screw integrated in the connector flange guarantees a perfect connection between the shroud and the metal front.

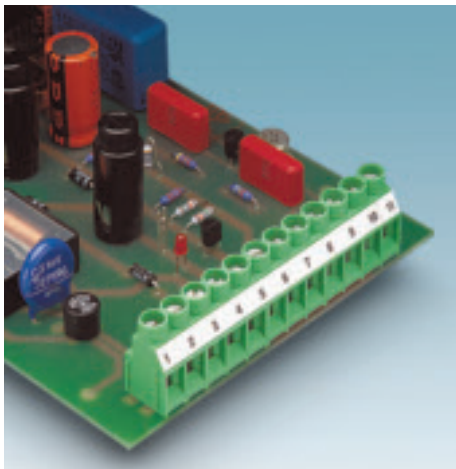


Shield connection/strain relief of the PC 4, PC 5, PC 6, PC 16 and PC 35 series

COMBICON power

PCB terminal blocks with screw connection

MKDS 5 series up to 6 mm²



- PCB terminal blocks with a screw connection up to 6 mm² conductor cross-section
- 2 and 3-pos. terminal block bases for setting up any number of positions
- Different pitches for fulfilling different voltage requirements (6.35 mm / 7.62 mm / 9.52 mm)
- Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)

Note:

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

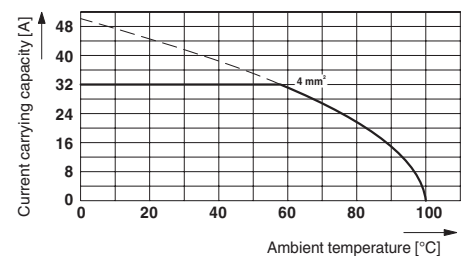
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 6,2/3,8 or SK 7,5/3,8 or SK 9,5/5	489

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

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]
Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter/ pin dimensions [mm]

MKDS 5/...-6,35

32 ¹⁾ / 4		
630		
6.35		
0.2 - 6 / 0.2 - 4 / 24 - 10		
0.25 - 4		
0.25 - 4		
0.2 - 1.5 / 0.2 - 1.5		
0.25 - 0.75		
0.5 - 2.5		
III / 3	III / 2	II / 2
500	630	1000
6	6	6
B	C	D
300	-	300
30	-	10
30 - 10	-	30 - 10
B	C	D
300	-	300
10	-	10
28 - 10	-	28 - 10
8		
M3		
0.5 - 0.6		
PA / I		
V0		
1.3 / 0.9 x 0.9 mm		

MKDS 5/...-7,62

32 ¹⁾ / 4		
630		
7.62		
0.2 - 6 / 0.2 - 4 / 24 - 10		
0.25 - 4		
0.25 - 4		
0.2 - 1.5 / 0.2 - 1.5		
0.25 - 0.75		
0.5 - 2.5		
III / 3	III / 2	II / 2
500	630	1000
6	6	6
B	C	D
300	-	300
30	-	10
30 - 10	-	30 - 10
B	C	D
300	-	300
-	-	-
-	-	-
-	-	-
8		
M3		
0.5 - 0.6		
PA / I		
V0		
1.3 / 0.9 x 0.9 mm		

MKDS 5/...-9,5

32 ¹⁾ / 4		
1000		
9.52		
0.2 - 6 / 0.2 - 4 / 24 - 10		
0.25 - 4		
0.25 - 4		
0.2 - 1.5 / 0.2 - 1.5		
0.25 - 0.75		
0.5 - 2.5		
III / 3	III / 2	II / 2
690	1000	1000
6	6	6
B	C	D
300	300	600
30	30	5
30 - 10	30 - 10	30 - 10
B	C	D
300	300	-
30	30	-
28 - 10	28 - 10	-
8		
M3		
0.5 - 0.6		
PA / I		
V0		
1.3 / 0.9 x 0.90.9 mm		

No. of pos.	Dim. a [mm]
2	6.35
3	12.70
2	6.35
3	12.70
2	7.62
3	15.24
2	7.62
3	15.24
2	9.52
3	19.04
2	9.52
3	19.04



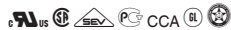
MKDS 5/...-6,35



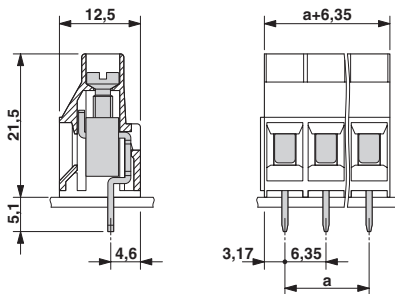
MKDS 5/...-7,62



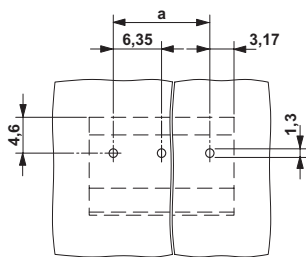
MKDS 5/...-9,52



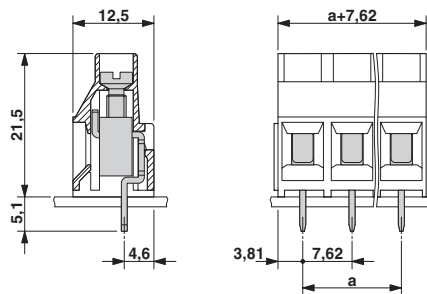
Dimensional drawing



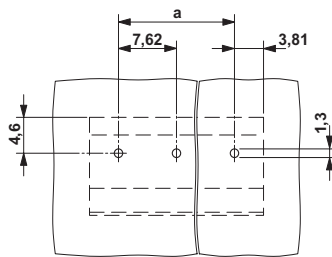
Drilling diagram



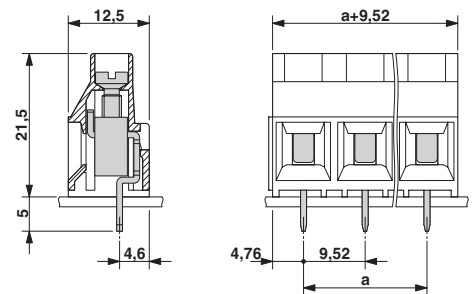
Dimensional drawing



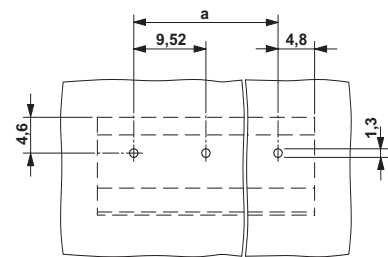
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: green		
MKDS 5/ 2-6,35	1714955	50
MKDS 5/ 3-6,35	1714968	50
6.35 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/eshop .		
MKDSV 5/ 2-6,35	1710056	50
MKDSV 5/ 3-6,35	1710085	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
MKDS 5/ 2-7,62	1868076	50
MKDS 5/ 3-7,62	1704936	50
7.62 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/eshop .		
MKDSV 5/ 2-7,62	1907131	50
MKDSV 5/ 3-7,62	1907144	50

Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: green		
MKDS 5/ 2-9,52	1714971	50
MKDS 5/ 3-9,52	1714984	50
9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/eshop .		
MKDSV 5/ 2-9,52	1710072	50
MKDSV 5/ 3-9,52	1710069	50

COMBICON power

PCB terminal blocks with screw connection

MKDS 5 series for 600 V UL applications



- High-voltage PCB terminal blocks MKDS 5 HV with increased clearances and creepage distances
- Unrestricted 600 V UL approval thanks to compact zig-zag pinning (MKDS 5 HV/...ZB-6,35 and MKDS 5 HV/...-9,52-Z)
- 2 and 3-pos. terminal block bases for setting up any number of positions
- Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)

Note:

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

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
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 6,2/3,8 or SK 9,5/5	489

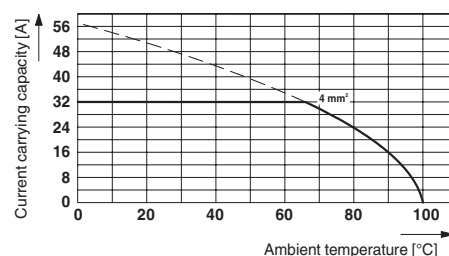
Current carrying capacity curve

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 with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter/ pin dimensions [mm]

MKDS 5 HV/...-ZB-6,35

Rated current / conductor cross-section	41 ¹⁾ / 4
Rated insulation voltage with pollution degree 2	1000
Pitch	6.35
Connection capacity	
Solid / stranded	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve	0.25 - 4
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	0.25 - 0.75
Stranded with TWIN ferrules with plastic sleeve	0.5 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	800 1000 1000
Rated surge voltage	8 8 8
Approval data (UL/CUL) Use Group	B C D
Nominal voltage	600 600 -
Nominal current	30 30 -
Connection capacity AWG	24 - 10 24 - 10 -
Approval data (CSA) Use Group	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	8
Screw thread	M3
Tightening torque	0.5 - 0.6
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter/ pin dimensions	1.3 / 0.9 x 0.9

MKDS 5 HV/...-9,52

Rated current / conductor cross-section	32 ¹⁾ / 4
Rated insulation voltage with pollution degree 2	1000
Pitch	9.52
Connection capacity	
Solid / stranded	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve	0.25 - 4
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	0.25 - 0.75
Stranded with TWIN ferrules with plastic sleeve	0.5 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	800 1000 1000
Rated surge voltage	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage	300 300 600
Nominal current	30 30 5
Connection capacity AWG	30 - 10 30 - 10 30 - 10
Approval data (CSA) Use Group	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	8
Screw thread	M3
Tightening torque	0.5 - 0.6
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter/ pin dimensions	1.3 / 0.9 x 0.9 mm

MKDS 5 HV/... -9,52-Z

Rated current / conductor cross-section	32 ¹⁾ / 4
Rated insulation voltage with pollution degree 2	1000
Pitch	9.52
Connection capacity	
Solid / stranded	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve	0.25 - 4
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	0.2 - 1.5 / 0.2 - 1.5
Stranded with ferrules without plastic sleeve	0.25 - 0.75
Stranded with TWIN ferrules with plastic sleeve	0.5 - 2.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	690 1000 1000
Rated surge voltage	8 8 6
Approval data (UL/CUL) Use Group	B C D
Nominal voltage	600 600 -
Nominal current	30 30 -
Connection capacity AWG	30 - 10 30 - 10 -
Approval data (CSA) Use Group	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	8
Screw thread	M3
Tightening torque	0.5 - 0.6
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter/ pin dimensions	1.3 / 0.9 x 0.9 mm

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

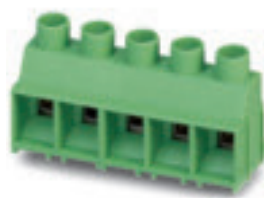
3 19.04

2 9.52



MKDS 5 HV/...-ZB-6,35

600 V UL approval



MKDS 5 HV/...-9,52

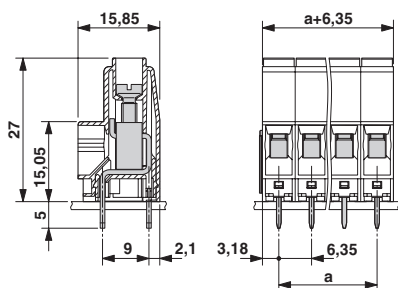


MKDS 5 HV/...-9,52-Z

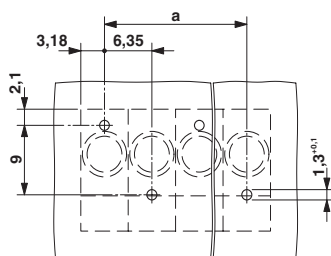
600 V UL approval



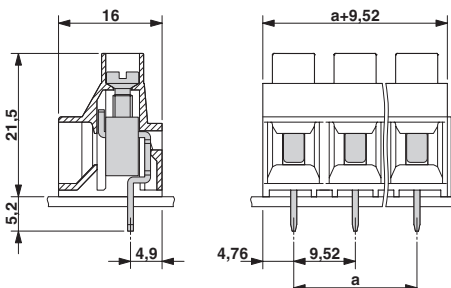
Dimensional drawing



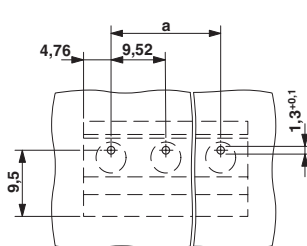
Drilling diagram



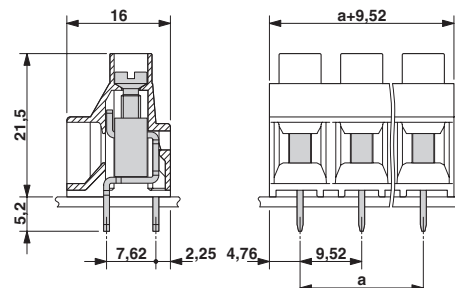
Dimensional drawing



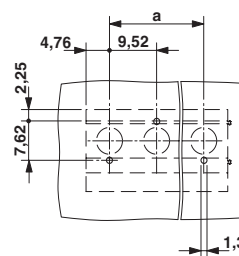
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: green		

MKDS 5 HV/ 2-ZB-6,35	1724569	50
MKDS 5 HV/ 3-ZB-6,35	1724572	50
MKDS 5 HV/ 4-ZB-6,35	1724585	50
MKDS 5 HV/ 5-ZB-6,35	1724598	50
MKDS 5 HV/ 6-ZB-6,35	1724608	50
MKDS 5 HV/ 7-ZB-6,35	1724611	50
MKDS 5 HV/ 8-ZB-6,35	1724624	50
MKDS 5 HV/ 9-ZB-6,35	1724637	50
MKDS 5 HV/10-ZB-6,35	1724640	50
MKDS 5 HV/11-ZB-6,35	1724653	50
MKDS 5 HV/12-ZB-6,35	1724666	50

Ordering data

Type	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

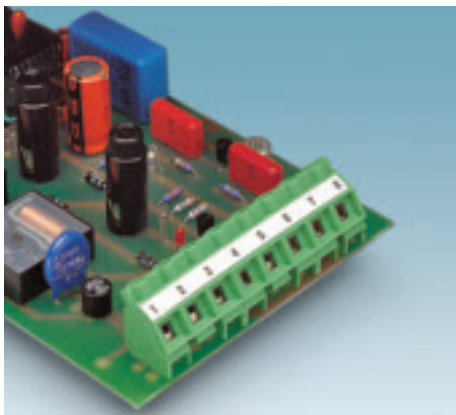
9.52 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/eshop .		
MKDSV 5 HV/ 2-9,52	1904147	50

Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: green		

MKDS 5 HV/ 2-9,52-Z	1907432	50
MKDS 5 HV/ 3-9,52-Z	1907429	50

MKDS 5 series in angled design



- Connection direction of the conductor angled to the PCB (35°)
- PCB terminal blocks with a screw connection up to 6 mm² conductor cross-section
- 2 and 3-pos. terminal block bases for setting up any number of positions
- Different pitches for fulfilling different voltage requirements (6.35 mm / 9.52 mm)

Note:

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

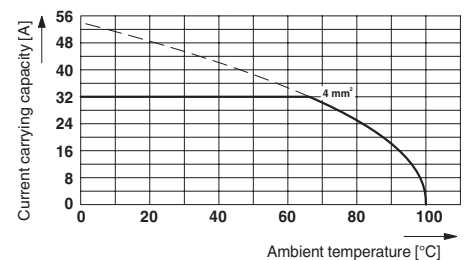
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 6,2/3,8 or SK 9,5/5	489

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 with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]
Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter/ pin dimensions [mm]

SMKDS 5/...-6,35

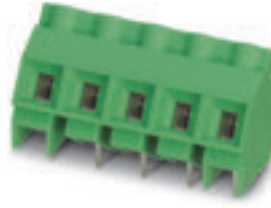
32 ¹⁾ / 4			32 ¹⁾ / 4		
630			1000		
6.35			9.52		
0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
0.25 - 4			0.25 - 4		
0.25 - 4			0.25 - 4		
0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
0.25 - 0.75			0.25 - 0.75		
0.5 - 2.5			0.5 - 2.5		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
500	630	1000	690	1000	1000
6	6	6	6	6	6
B	C	D	B	C	D
250	-	300	250	300	-
30	-	10	30	30	-
30 - 10	-	30 - 10	30 - 10	30 - 10	-
B	C	D	B	C	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		
V2			V2		
1.3 / 0.9 x 0.9 mm			1.3 / 0.9 x 0.9 mm		

No. of pos.	Dim. a [mm]
2	6.35
3	12.70
2	9.52
3	19.04



SMKDS 5/...-6,35

35° angled connection

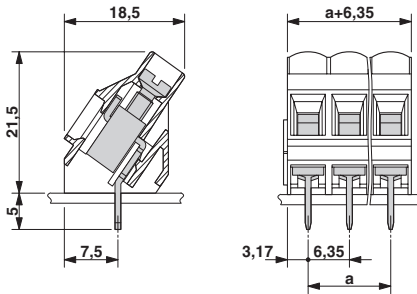


SMKDS 5/...-9,5

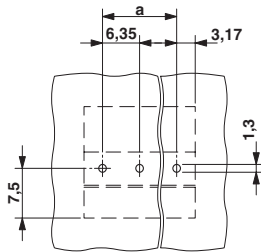
35° angled connection

UL US CE SEV P CCA

Dimensional drawing

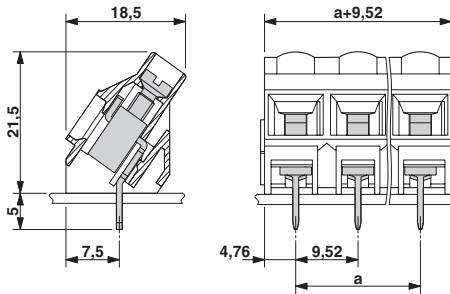


Drilling diagram

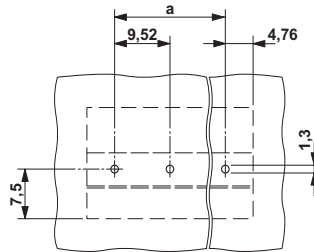


UL US CE SEV P CCA

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: green		

SMKDS 5/ 2-6,35	1720033	50
SMKDS 5/ 3-6,35	1720046	50

Ordering data

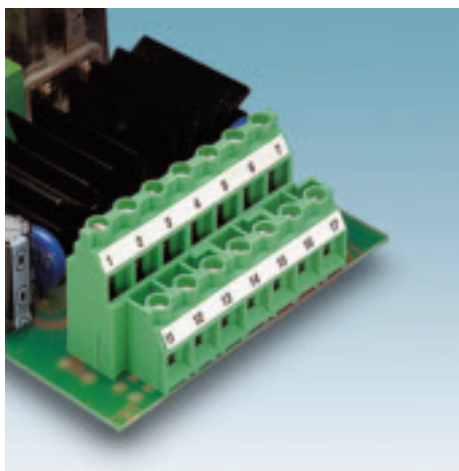
Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: green		

SMKDS 5/ 2-9,5	1720017	50
SMKDS 5/ 3-9,5	1720020	50

COMBICON power

PCB terminal blocks with screw connection

MKDS 5 series in double-level design



- Double-level PCB terminal blocks with a screw connection up to 6 mm² conductor cross-section
- Different pitches for fulfilling different voltage requirements (6.35 mm / 9.52 mm)
- 2 and 3-pos. terminal block bases for setting up any number of positions
- Lateral offset of terminal points for better accessibility of cable funnels

Note:

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

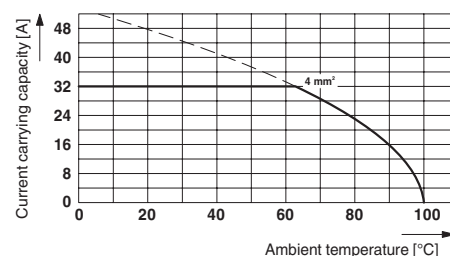
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 6,2/3,8 or SK 9,5/5	489

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 with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]
Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter/ pin dimensions [mm]

MKKDS 5/...-6,35

32 ¹⁾ / 4			32 ¹⁾ / 4		
630			1000		
6.35			9.52		
0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
0.25 - 2.5			0.25 - 2.5		
0.25 - 4			0.25 - 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	II / 2	III / 3	III / 2	II / 2
500	630	1000	690	1000	1000
6	6	6	6	6	6
B	C	D	B	C	D
300	-	300	300	300	600
30	-	10	30	30	5
30 - 10	-	30 - 10	30 - 10	30 - 10	30 - 10
B	C	D	B	C	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		
V0			V0		
1.3 / 0.9 x 0.9 mm			1.3 / 0.9 x 0.9 mm		

No. of pos. Dim. a [mm]

2 6.35

3 12.70

2 9.52

3 19.04



MKKDS 5/...-6,35

Double-level PCB terminal block

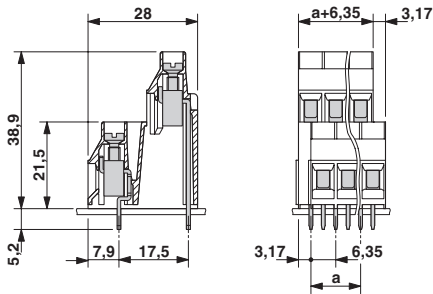


MKKDS 5/...-9,5

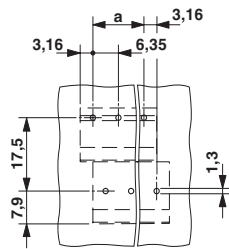
Double-level PCB terminal block



Dimensional drawing



Drilling diagram

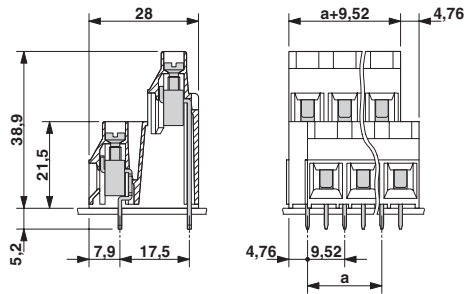


Ordering data

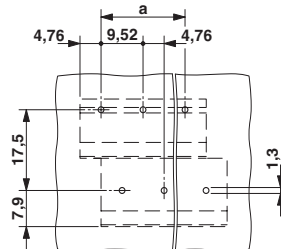
Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: green		
MKKDS 5/ 2-6,35	1719031	50
MKKDS 5/ 3-6,35	1719044	50



Dimensional drawing



Drilling diagram



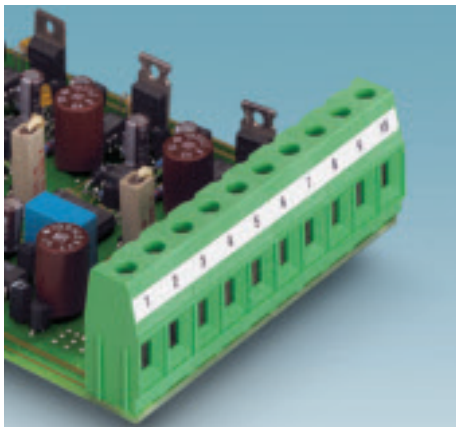
Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: green		
MKKDS 5/ 2-9,5	1719015	50
MKKDS 5/ 3-9,5	1719028	50

COMBICON power

PCB terminal blocks with screw connection

MKDS 10 series up to 16 mm²



- High-capacity PCB terminal blocks with a screw connection up to 16 mm² flexible and a current carrying capacity of 76 A
- Individual adjustment of voltage requirements using pitch spacers RZ
- 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 for setting up any number of positions

Note:

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

When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

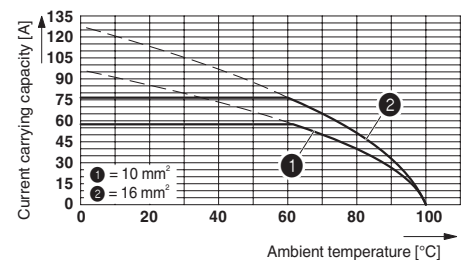
2) UL/CUL on request.

Accessories

For all types	Type	Page
	Test plug MPS	506
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker card SK 10/5	491
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	
Only for MKDSP 10 HV...-12,7		
	Pitch spacer, width: 2.54 mm RZ-MKDSP 10 HV-2,54 Order No. 1929672	

Current carrying capacity curve

Type: MKDSP 10/...-10,16
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]
Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter/ pin dimensions [mm]

MKDSP 10N/...-10,16

76¹⁾ / 16

1000

10.16

0.5 - 16 / 0.5 - 16 / 20 - 6

0.5 - 16

0.5 - 16

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

690 1000 1000

8 8 6

B C D

- 2) -

60 60 5

20 - 6 20 - 6 20 - 6

B C D

- - -

- - -

- - -

10

M4

1.2 - 1.5

PA / I

V0

1.5 / 1 x 0.9 mm

MKDSP 10 HV...-10,16

76¹⁾ / 16

1000

10.16

0.5 - 16 / 0.5 - 16 / 20 - 6

0.5 - 16

0.5 - 16

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

690 1000 1000

8 8 6

B C D

300 300 600

60 60 5

20 - 6 20 - 6 20 - 6

B C D

- - -

- - -

- - -

10

M4

1.2 - 1.5

PA / I

V0

1.5 / 1 x 0.9 mm

MKDSP 10 HV...-12,7

76¹⁾ / 16

1000

12.7

0.5 - 16 / 0.5 - 16 / 20 - 6

0.5 - 16

0.5 - 16

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

1000 1000 1000

8 8 6

B C D

600 600 -

60 60 -

20 - 6 20 - 6 -

B C D

- - -

- - -

- - -

10

M4

1.2 - 1.5

PA / I

V0

1.5 / 1 x 0.9 mm

No. of pos. Dim. a [mm]

2 10.16

3 20.32

2 10.16

3 20.32

2 12.70

3 25.40



MKDSP 10N/...-10,16

With a test connection



MKDSP 10 HV...-10,16

With a test connection

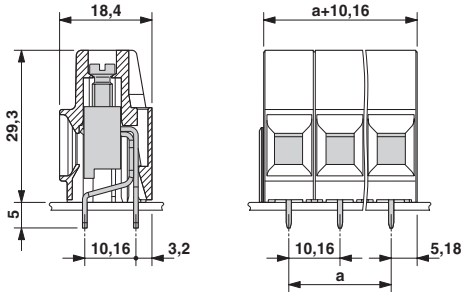


MKDSP 10 HV...-12,7

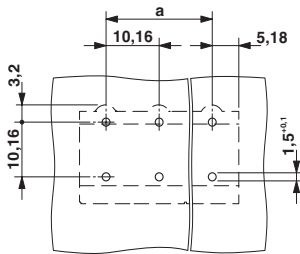
600 V UL approval, with test connection



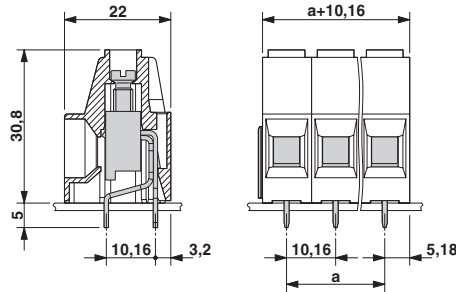
Dimensional drawing



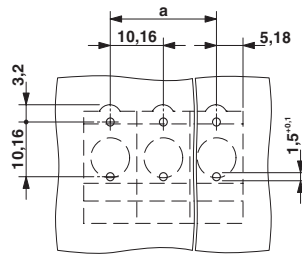
Drilling diagram



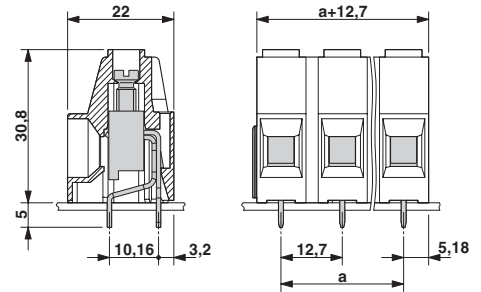
Dimensional drawing



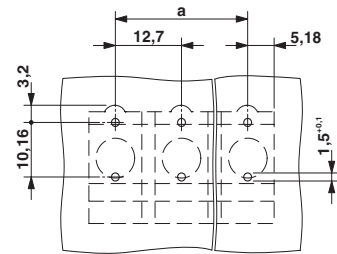
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
MKDSP 10N/ 2-10,16	1773976	50
MKDSP 10N/ 3-10,16	1774137	50

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
MKDSP 10HV/ 2-10,16	1929517	50
MKDSP 10HV/ 3-10,16	1929520	50

Ordering data

Type	Order No.	Pcs. / Pkt.
12.7 mm pitch, color: green		
MKDSP 10HV/ 2-12,7	1929533	50
MKDSP 10HV/ 3-12,7	1929546	50

COMBICON power

PCB terminal blocks with screw connection

MKDS 10 series for 600 V UL applications



- 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
- 10.16 mm pitch
- 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 for setting up any number of positions

Note:

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

Higher voltages depend on application.

When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

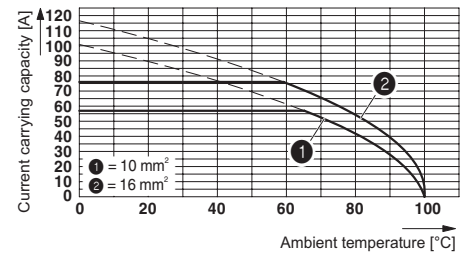
*) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker card SK 10/5	491
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

Current carrying capacity curve

Type: MKDS 10 HV
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions = 5



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter/ pin dimensions	[mm]

MKDS 10 HV/...-ZB-10,16

76 ¹⁾ / 16		
1000		
10.16		
0.5 - 16 / 0.5 - 16 / 20 - 6		
0.5 - 16		
0.5 - 16		
0.5 - 6 / 0.5 - 6		
0.5 - 4		
0.5 - 6		
III / 3	III / 2	II / 2
800	1000	1000
8	8	8
B	C	D
600	600	-
60	60	-
20 - 6	20 - 6	-
B	C	D
-	-	-
-	-	-
-	-	-
10		
M4		
1.2 - 1.5		
PA / I		
V0		
1.5 / 1 x 0.9 mm		

MKDS 10 HV/...-B-10,16

76 ¹⁾ / 16		
400		
10.16		
0.5 - 16 / 0.5 - 16 / 20 - 6		
0.5 - 16		
0.5 - 16		
0.5 - 6 / 0.5 - 6		
0.5 - 4		
0.5 - 6		
III / 3	III / 2	II / 2
400	400	800
4	4	4
B	C	D
600	600	-
60	60	-
20 - 6	20 - 6	-
B	C	D
-	-	-
-	-	-
-	-	-
10		
M4		
1.2 - 1.5		
PA / I		
V0		
1.5 / 1 x 0.9 mm		

MKDS 10 HV/...-F-10,16

76 ¹⁾ / 16		
400		
10.16		
0.5 - 16 / 0.5 - 16 / 20 - 6		
0.5 - 16		
0.5 - 16		
0.5 - 6 / 0.5 - 6		
0.5 - 4		
0.5 - 6		
III / 3	III / 2	II / 2
400	400	800
4	4	4
B	C	D
600	600	-
60	60	-
20 - 6	20 - 6	-
B	C	D
-	-	-
-	-	-
-	-	-
10		
M4		
1.2 - 1.5		
PA / I		
V0		
1.5 / 1 x 0.9 mm		

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



MKDS 10 HV/...-ZB-10,16

600 V UL approval



MKDS 10 HV/...-B-10,16

600 V UL approval
Single PCB terminal block with solder pin to the rear

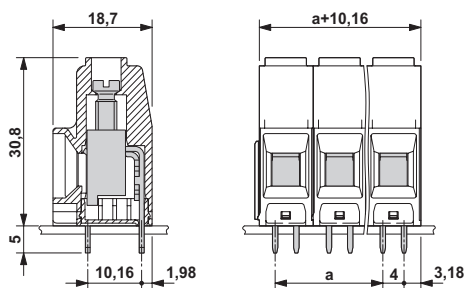


MKDS 10 HV/...-F-10,16

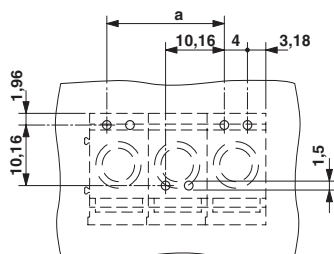
600 V UL approval
Single PCB terminal block with solder pin to the front



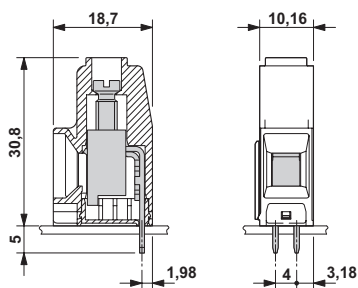
Dimensional drawing



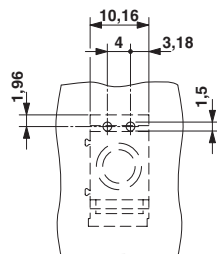
Drilling diagram



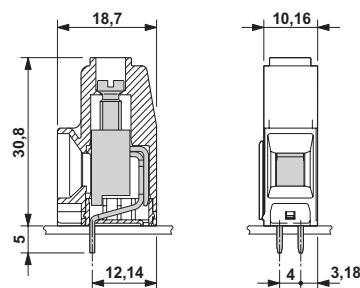
Dimensional drawing



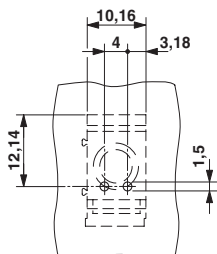
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
MKDS 10 HV/ 1-B-10,16	1993776	50

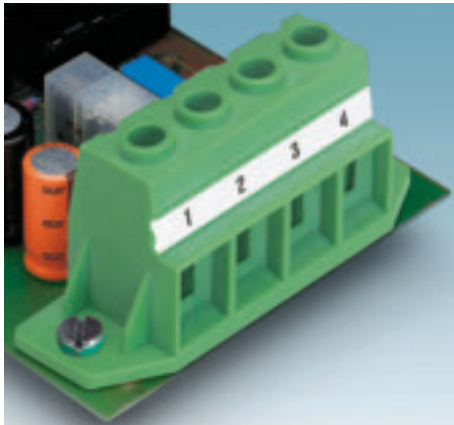
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
MKDS 10 HV/ 1-F-10,16	1993763	50

COMBICON power

PCB terminal blocks with screw connection

MKDS 25 series up to 35 mm²



- 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 a mounting flange (-F) for safe mounting in the device
- Single-pos. version with a left-sided mounting flange (-FL)

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

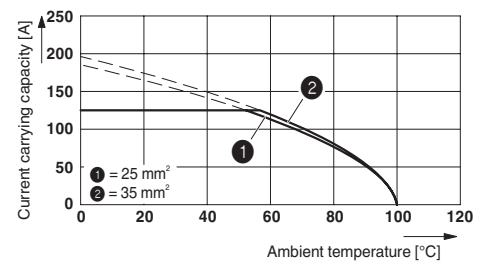
4.5 Nm = 35 mm²

Accessories

For all types	Type	Page
	Test plug MPS	506
	Reducing connector RPS Order No. 0201647	506
	Screwdriver SZS 1,0 x 6,5 Order No. 1205079	
	Marker card SK 15/5 UNBEDRUCKT Order No. 0811192	
	Zack marker strip ZBF 15: UNBEDRUCKT	495

Current carrying capacity curve

Type: MKDSP 25/5-15,00
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter/ pin dimensions	[mm]

MKDSP 25/...

125 ¹⁾ / 35
1000
15
0.5 - 35 / 0.5 - 25 / 20 - 2
1 - 25
1.5 - 25
0.5 - 6 / 0.5 - 6
0.5 - 4
0.5 - 6
III / 3 III / 2 II / 2
1000 1000 1000
8 8 8
B C D
600 600 -
115 115 -
20 - 2 20 - 2 -
B C D
- - -
- - -
- - -
18
M5
2.5 - 4.5 ²⁾
PA / I
V0
1.6 / 1.2 x 1.2 mm

MKDSP 25/...-F

125 ¹⁾ / 35
1000
15
0.5 - 35 / 0.5 - 25 / 20 - 2
1 - 25
1.5 - 25
0.5 - 6 / 0.5 - 6
0.5 - 4
0.5 - 6
III / 3 III / 2 II / 2
1000 1000 1000
8 8 8
B C D
600 600 -
115 115 -
20 - 2 20 - 2 -
B C D
- - -
- - -
- - -
18
M5
2.5 - 4.5 ²⁾
PA / I
V0
1.6 / 1.2 x 1.2 mm

MKDSP 25/...-FL

125 ¹⁾ / 35
1000
15
0.5 - 35 / 0.5 - 25 / 20 - 2
1 - 25
1.5 - 25
0.5 - 6 / 0.5 - 6
0.5 - 4
0.5 - 6
III / 3 III / 2 II / 2
1000 1000 1000
8 8 8
B C D
600 600 -
115 115 -
20 - 2 20 - 2 -
B C D
- - -
- - -
- - -
18
M5
2.5 - 4.5 ²⁾
PA / I
V0
1.6 / 1.2 x 1.2 mm

No. of pos.	Dim. a [mm]
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



MKDSP 25/...

600 V UL approval, with test connection



MKDSP 25/...-F

600 V UL approval,
with test connection and mounting flange

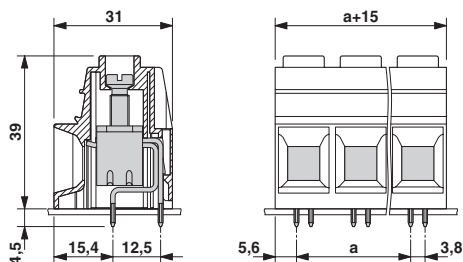


MKDSP 25/...-FL

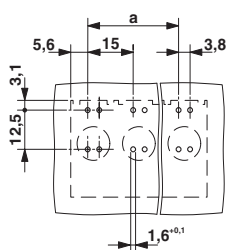
Single PCB terminal block with 600 V UL approval,
test connection and mounting flange, left



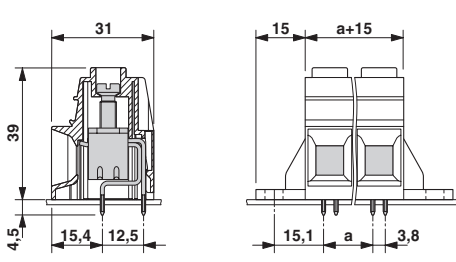
Dimensional drawing



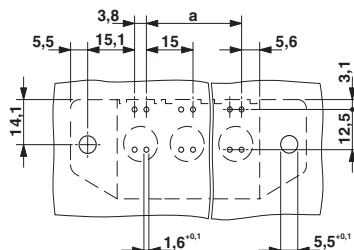
Drilling diagram



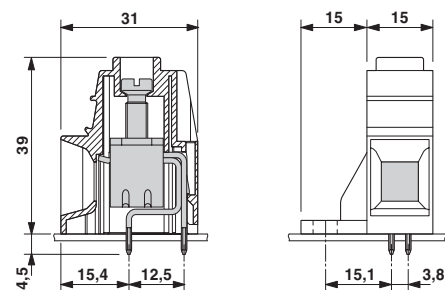
Dimensional drawing



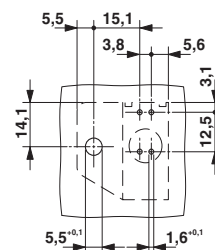
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	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

Type	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	10

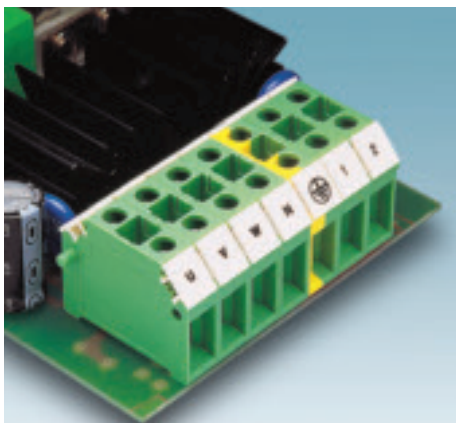
Ordering data

Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: green		
MKDSP 25/ 1-15,00-FL	1932575	25

COMBICON power

PCB terminal blocks with screw connection

Feed-through PCB terminal blocks up to 16 mm²



- 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 through bridges

Note:

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

Note:

FBI 10-10 maximum over 3 KDS 10 terminal blocks. Remove the break-out wall for bridging.

1) Higher voltages are achieved when the RZ-KDS 10 pitch spacer is inserted.

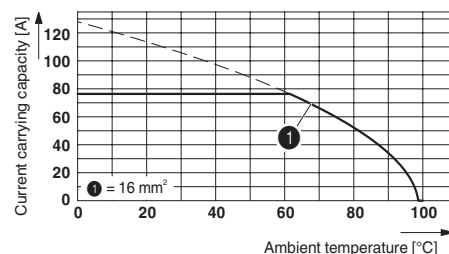
2) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Pitch spacer, width: 2.5 mm RZ-KDS 10 Order No. 1701065	
	Fixed bridge, 10-pos., divisible FBI 10-10 Order No. 0203276	
	Test plug PS...	506
	Test socket for PS test plugs PSB 4/7/6 Order No. 0303299	
	Zack marker strip ZB 10	493
	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



Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]
Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter/ pin dimensions [mm]

KDS 10

76²) / 16
320

10

0.5 - 16 / 0.5 - 10 / 20 - 6

0.5 - 10

0.5 - 10

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

250¹⁾ 320 630

4 4 4

B C D

250 300 600

65 65 5

24 - 6 24 - 6 24 - 6

B C D

300 300 -

65 65 -

18 - 6 18 - 6 -

12

M4

1.2 - 1.5

PA / I

V0

1.4 / 1 x 0.9 mm

KDS 10/SO

76²) / 16
630

10

0.5 - 16 / 0.5 - 10 / 20 - 6

0.5 - 10

0.5 - 10

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

630¹⁾ 630 1000

6 6 6

B C D

250 300 600

65 65 5

24 - 6 24 - 6 24 - 6

B C D

300 300 -

65 65 -

18 - 6 18 - 6 -

12

M4

1.2 - 1.5

PA / I

V0

1.4 / 1 x 0.9 mm

KDS 10-PE

76²) / 16
320

10

0.5 - 16 / 0.5 - 10 / 24 - 14

0.5 - 10

0.5 - 10

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

250 320 630

4 4 4

B C D

- - -

- - -

- - -

- - -

- - -

- - -

- - -

12

M4

1.2 - 1.5

PA / I

V0

1.4 / 1 x 0.9 mm

No. of pos.

1

1

1



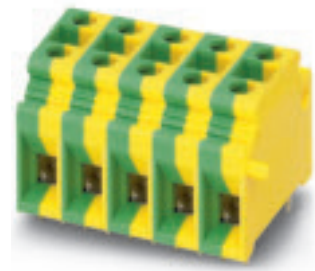
KDS 10

Feed-through terminal block, solder pins in a row



KDS 10/SO

Feed-through terminal block, solder pins offset

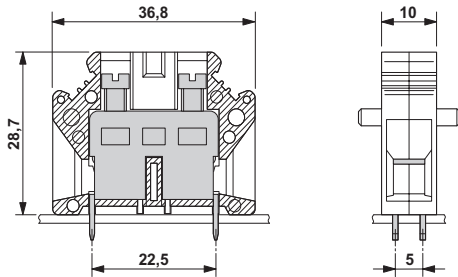


KDS 10-PE

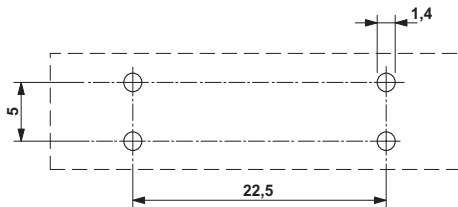
Feed-through terminal block as PE connection,
solder pins in a row



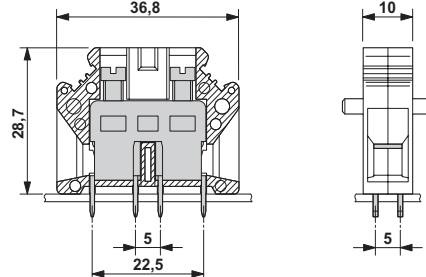
Dimensional drawing



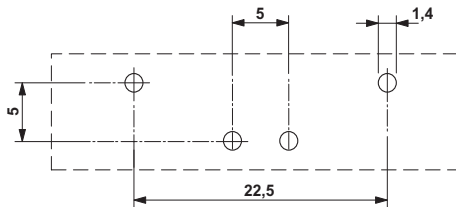
Drilling diagram



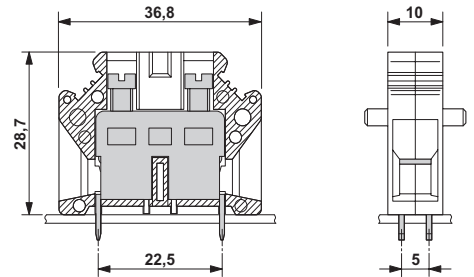
Dimensional drawing



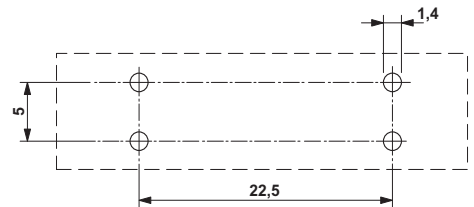
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: green		
KDS10	1704020	50

Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: green		
KDS10/SO	1704059	50

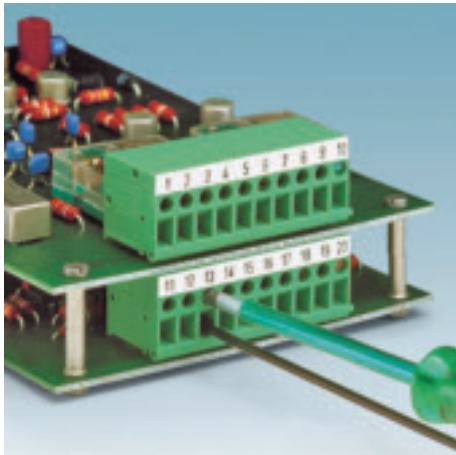
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: green-yellow		
KDS10-PE	1704033	50

COMBICON power

PCB terminal blocks with screw connection

Front PCB terminal blocks up to 6 mm²



- 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)

Note:

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

Note:

More accessories for the KDS 10 series can be found on page 328.

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
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 Order No. 1205053	
	Marker card SK 6,2/3,8	489
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	493

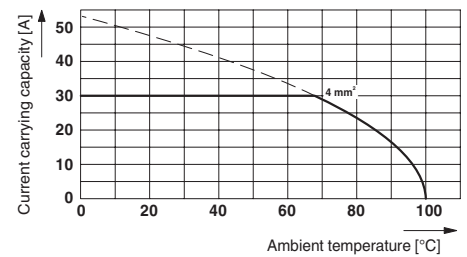
Current carrying capacity curve

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 with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter/ pin dimensions [mm]

KDS 10-PE/SO

76¹⁾ / 16

630

10

0.5 - 16 / 0.5 - 10 / 24 - 14

0.5 - 10

0.5 - 10

0.5 - 4 / 0.5 - 4

0.5 - 2.5

0.5 - 6

III / 3 III / 2 II / 2

630 630 1000

4 4 4

B C D

- - -

- - -

- - -

- - -

- - -

- - -

- - -

12

M4

1.2 - 1.5

PA / I

V0

1.4 / 1 x 0.9 mm

FRONT 4-H-6,35

32¹⁾ / 4

320

6.35

0.5 - 6 / 0.5 - 4 / 20 - 10

0.5 - 4

0.5 - 4

0.5 - 1.5 / 0.5 - 1.5

0.25 - 1

0.5 - 1

III / 3 III / 2 II / 2

320 320 630

4 4 4

B C D

250 - 300

30 - 10

24 - 10 - 24 - 10

B C D

300 - 300

30 - 10

22 - 10 - 22 - 10

14

M3

0.5 - 0.6

PA / I

V2

1.3 / 1 x 0.8 mm

FRONT 4-V-6,35

32¹⁾ / 4

320

6.35

0.5 - 6 / 0.5 - 4 / 20 - 10

0.5 - 4

0.5 - 4

0.5 - 1.5 / 0.5 - 1.5

0.25 - 1

0.5 - 1

III / 3 III / 2 II / 2

320 320 630

4 4 4

B C D

250 - 300

30 - 10

24 - 10 - 24 - 10

B C D

300 - 300

30 - 10

22 - 10 - 22 - 10

14

M3

0.5 - 0.6

PA / I

V2

1.3 / 1 x 0.8 mm

No. of pos.

1

1



KDS 10-PE/SO

Feed-through terminal block as PE connection,
soldering pins, staggered



FRONT 4-H-6,35

Single PCB terminal block, horizontal

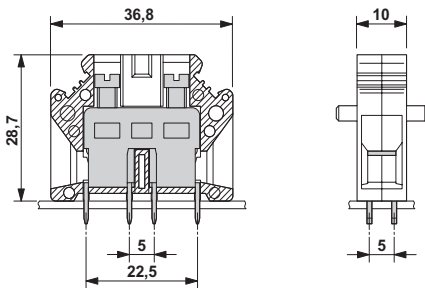


FRONT 4-V-6,35

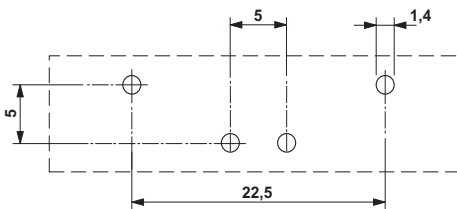
Single PCB terminal block, vertical



Dimensional drawing



Drilling diagram

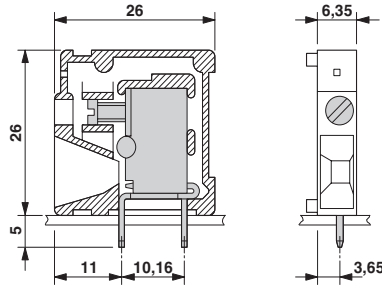


Ordering data

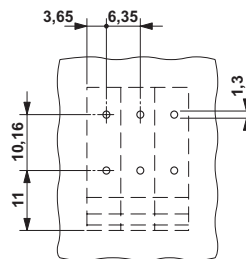
Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: green-yellow KDS10-PE/SO	1704062	50



Dimensional drawing



Drilling diagram

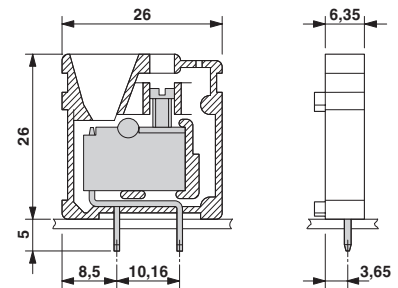


Ordering data

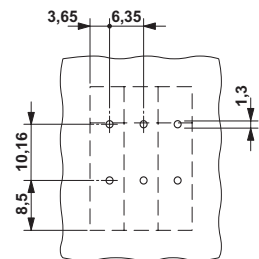
Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: green FRONT 4-H-6,35	1703050	50



Dimensional drawing



Drilling diagram



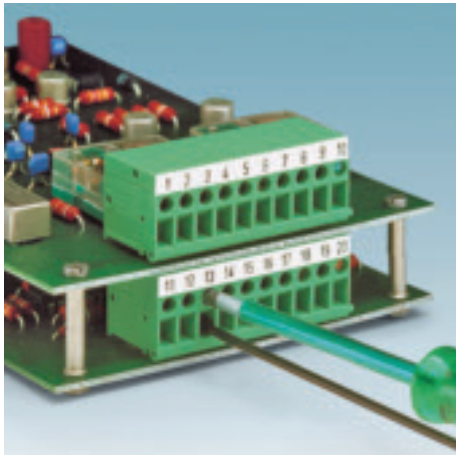
Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: green FRONT 4-V-6,35	1703063	50

COMBICON power

PCB terminal blocks with screw connection

Front PCB terminal blocks up to 6 mm²



- 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

Note:

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

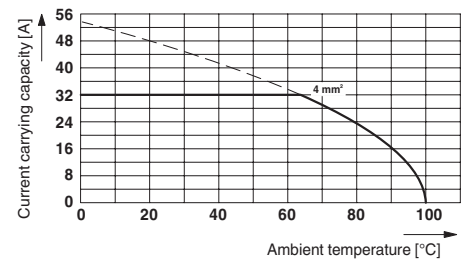
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Pitch spacer, width: 5.08 mm RZ-5,08-FRONT 4-H- 7,62 Order No. 1904011	
	Marker card SK 7,62/3,8	489

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 with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]
Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter/ pin dimensions [mm]

FRONT 4-H-7,62

32¹⁾ / 4
630

7.62

0.5 - 6 / 0.5 - 4 / 20 - 10

0.5 - 4

0.5 - 4

0.5 - 1.5 / 0.5 - 1.5

0.25 - 1

0.5 - 1

III / 3 III / 2 II / 2

500 630 1000

6 6 6

B C D

250 - 300

30 - 10

24 - 10 - 24 - 10

B C D

300 - 300

30 - 10

22 - 10 - 22 - 10

14

M3

0.5 - 0.6

PA / I

V2

1.3 / 1 x 0.8 mm

FRONT 4-V-7,62

32¹⁾ / 4
630

7.62

0.5 - 6 / 0.5 - 4 / 20 - 10

0.5 - 4

0.5 - 4

0.5 - 1.5 / 0.5 - 1.5

0.25 - 1

0.5 - 1

III / 3 III / 2 II / 2

500 630 1000

6 6 6

B C D

250 - 300

30 - 10

24 - 10 - 24 - 10

B C D

300 - 300

30 - 10

22 - 10 - 22 - 10

14

M3

0.5 - 0.6

PA / I

V2

1.3 / 1 x 0.8 mm

No. of pos.

1



FRONT 4-H-7,62

Single PCB terminal block, horizontal

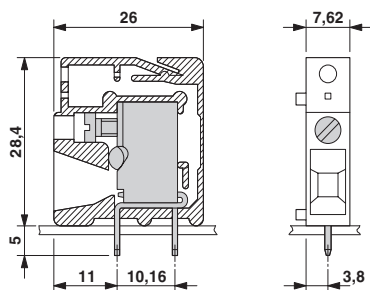


FRONT 4-V-7,62

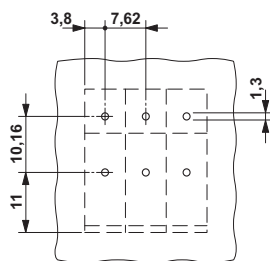
Single PCB terminal block, vertical



Dimensional drawing



Drilling diagram

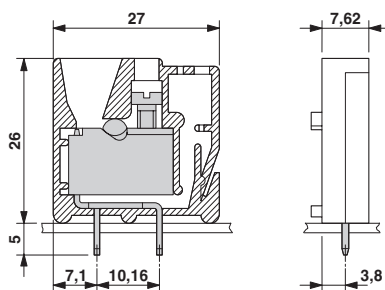


Ordering data

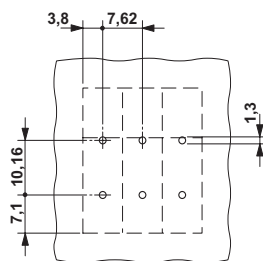
Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
FRONT 4-H-7,62	1703034	50



Dimensional drawing



Drilling diagram



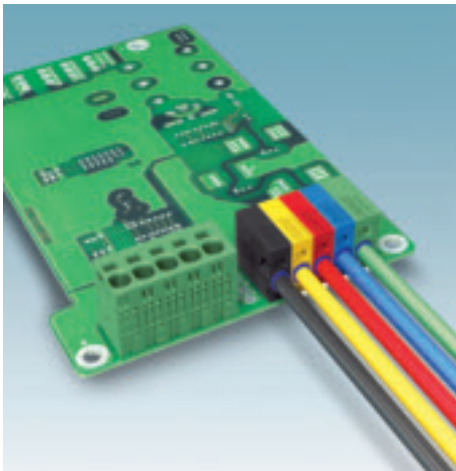
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
FRONT 4-V-7,62	1703021	50

COMBICON power

PCB terminal blocks with push-in spring-cage connection

SPT 5 series up to 6 mm²



- Push-in spring-cage PCB terminal blocks SPT 5 for conductor cross-sections up to 6 mm², stranded
- Fast connection method 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-pos. terminal block bases with a double pin

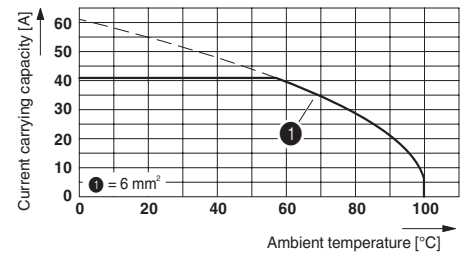
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.
2) UL/CUL on request.

Accessories

For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 7,5/3,8	489
	Ferrules with and without plastic sleeve	502
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

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 with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

SPT 5/ 1-H-7,5

Rated current / conductor cross-section	41 ¹⁾ / 6
Rated insulation voltage with pollution degree 2	1000
Pitch	7.5
Connection capacity	
Solid / stranded	0.2 - 10 / 0.2 - 6 / 24 - 8
Stranded with ferrules without plastic sleeve	0.25 - 6
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	- / -
Stranded with ferrules without plastic sleeve	-
Stranded with TWIN ferrules with plastic sleeve	0.25 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	630 1000 1000
Rated surge voltage	6 6 6
Approval data (UL/CUL)	B C D
Nominal voltage	- 2 ²⁾ -
Nominal current	- 2 ²⁾ -
Connection capacity AWG	- - -
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	15
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	2.1 / 1.7 x 0.8

SPT 5/...-H-7,5-ZB

Rated current / conductor cross-section	41 ¹⁾ / 6
Rated insulation voltage with pollution degree 2	1000
Pitch	7.5
Connection capacity	
Solid / stranded	0.2 - 10 / 0.2 - 6 / 24 - 8
Stranded with ferrules without plastic sleeve	0.25 - 6
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	- / -
Stranded with ferrules without plastic sleeve	-
Stranded with TWIN ferrules with plastic sleeve	0.25 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	800 1000 1000
Rated surge voltage	8 8 6
Approval data (UL/CUL)	B C D
Nominal voltage	- 2 ²⁾ -
Nominal current	- 2 ²⁾ -
Connection capacity AWG	- - -
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	15
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	2.1 / 1.7 x 0.8

No. of pos.

1	
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



SPT 5/ 1-H-7,5

Push-in single PCB terminal block, horizontal, 2 solder pins

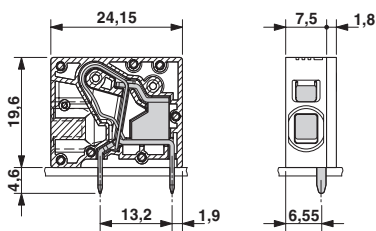


SPT 5/...-H-7,5-ZB

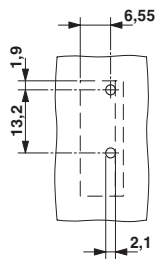
Push-in PCB terminal block, horizontal,
UL 600 V



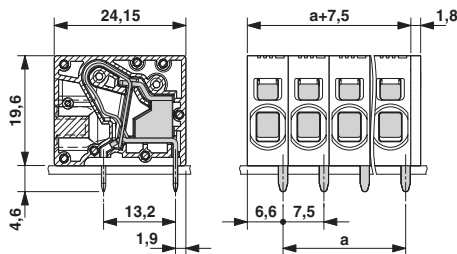
Dimensional drawing



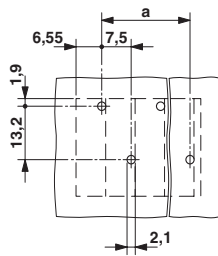
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: green		
SPT 5/ 1-H-7,5	1719189	50

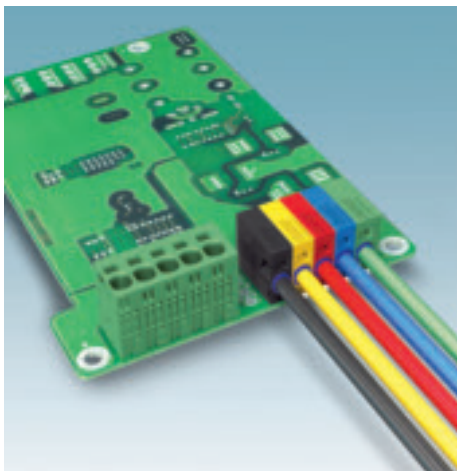
Ordering data

Type	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

COMBICON power

PCB terminal blocks with push-in spring-cage connection

SPT 5 series up to 6 mm²



- Push-in spring-cage PCB terminal blocks SPT 5 for conductor cross-sections up to 6 mm², stranded
- Fast connection method 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-pos. terminal block bases with a double pin

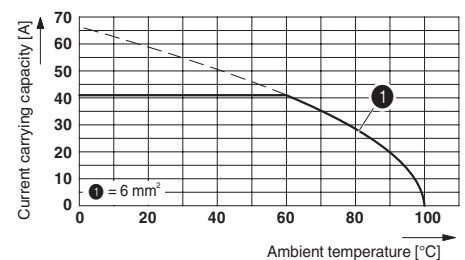
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.
2) UL/CUL on request.

Accessories

For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker cards SK 7,5/3,8	489
	Ferrules with and without plastic sleeve	502
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

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 with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

SPT 5/ 1-V-7,5

Rated current / conductor cross-section	41 ¹⁾ / 6
Rated insulation voltage with pollution degree 2	1000
Pitch	7.5
Connection capacity	
Solid / stranded	0.2 - 10 / 0.2 - 6 / 24 - 8
Stranded with ferrules without plastic sleeve	0.25 - 6
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	- / -
Stranded with ferrules without plastic sleeve	-
Stranded with TWIN ferrules with plastic sleeve	0.25 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	630 1000 1000
Rated surge voltage	6 6 6
Approval data (UL/CUL)	B C D
Nominal voltage	- 2 ²⁾ -
Nominal current	- 2 ²⁾ -
Connection capacity AWG	- - -
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	15
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	2.1 / 1.7 x 0.8

SPT 5/...-V-7,5-ZB

Rated current / conductor cross-section	41 ¹⁾ / 6
Rated insulation voltage with pollution degree 2	1000
Pitch	7.5
Connection capacity	
Solid / stranded	0.2 - 10 / 0.2 - 6 / 24 - 8
Stranded with ferrules without plastic sleeve	0.25 - 6
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	- / -
Stranded with ferrules without plastic sleeve	-
Stranded with TWIN ferrules with plastic sleeve	0.25 - 1.5
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	800 1000 1000
Rated surge voltage	8 8 6
Approval data (UL/CUL)	B C D
Nominal voltage	- 2 ²⁾ -
Nominal current	- 2 ²⁾ -
Connection capacity AWG	- - -
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	15
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	2.1 / 1.7 x 0.8

No. of pos.

1	
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



SPT 5/ 1-V-7,5

Push-in single PCB terminal block, vertical, 2 solder pins

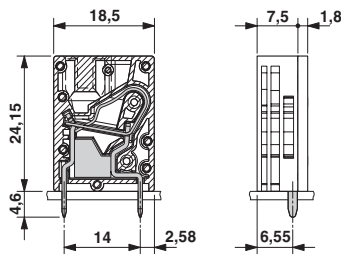


SPT 5/...-V-7,5-ZB

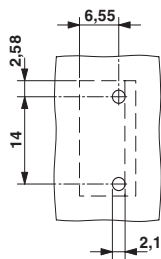
Push-in PCB terminal block, vertical,
UL 600 V



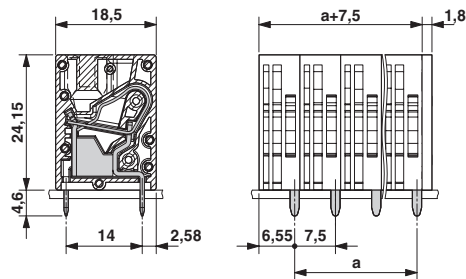
Dimensional drawing



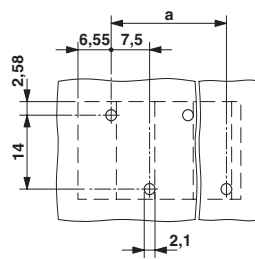
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: green		
SPT 5/ 1-V-7,5	1719309	50

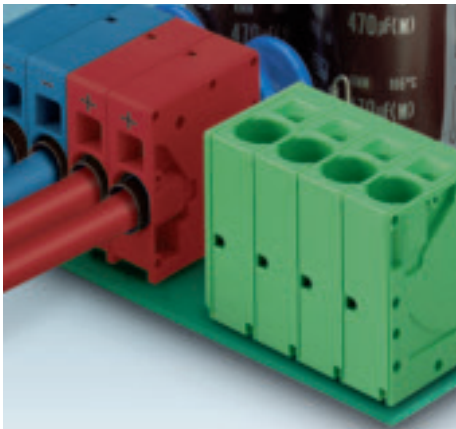
Ordering data

Type	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	1719338	50
SPT 5/ 5-V-7,5-ZB	1719341	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

COMBICON power

PCB terminal blocks with push-in spring-cage connection

SPT 16 series up to 16 mm²



- Push-in spring-cage PCB terminal block SPT 16 for conductor cross-sections of up to 16 mm² and a current carrying capacity of 76 A
- 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
- 1-pos. terminal blocks with double pinning

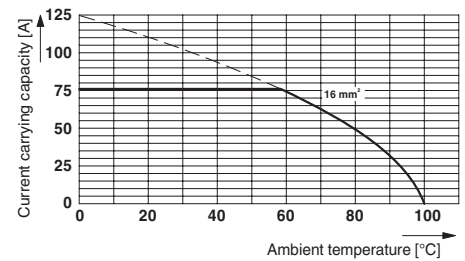
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.
2) UL/CUL on request.

Accessories

For all types	Type	Page
	Marker card SK 10/5	491
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520	
	Ferrules with and without plastic sleeve	502
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	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



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

SPT 16/1-H-10,0

76 ¹⁾ / 16		
1000		
10		
0.75 - 16 / 0.75 - 16 / 20 - 4		
0.75 - 16		
0.75 - 10		
- / -		
-		
0.75 - 4		
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
B	C	D
-	2)	-
-	2)	-
-	-	-
B	C	D
-	-	-
-	-	-
-	-	-
18	18	18
PA / I	PA / I	PA / I
V0	V0	V0
1.7 / 1.2 x 1 mm	1.7 / 1.2 x 1 mm	1.7 / 1.2 x 1 mm

SPT 16/...-H-10,0-ZB

76 ¹⁾ / 16		
1000		
10		
0.75 - 16 / 0.75 - 16 / 20 - 4		
0.75 - 16		
0.75 - 10		
- / -		
-		
0.75 - 4		
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
B	C	D
-	2)	-
-	2)	-
-	-	-
B	C	D
-	-	-
-	-	-
-	-	-
18	18	18
PA / I	PA / I	PA / I
V0	V0	V0
1.7 / 1.2 x 1 mm	1.7 / 1.2 x 1 mm	1.7 / 1.2 x 1 mm

No. of pos.

1	
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
9	80.00



SPT 16/1-H-10,0

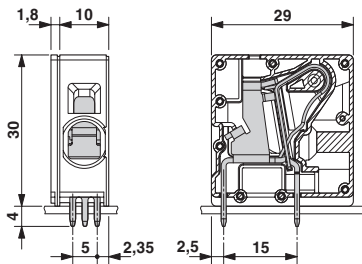
Push-in single PCB terminal block, horizontal,
double pinning



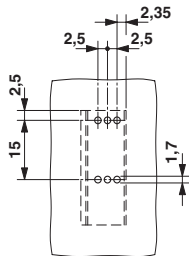
SPT 16/...-H-10,0-ZB

Push-in PCB terminal blocks, horizontal
UL 600 V

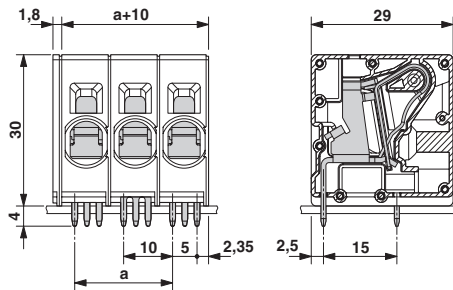
Dimensional drawing



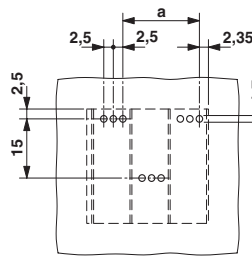
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.0 mm pitch, color: green		
SPT 16/ 1-H-10,0	1735778	50

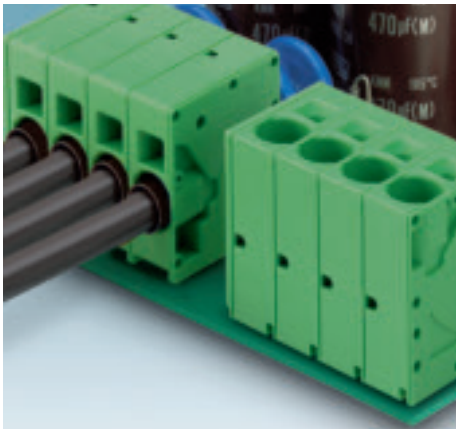
Ordering data

Type	Order No.	Pcs. / Pkt.
10.0 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

COMBICON power

PCB terminal blocks with push-in spring-cage connection

SPT 16 series up to 16 mm²



- Push-in spring-cage PCB terminal block SPT 16 for conductor cross-sections of up to 16 mm² and a current carrying capacity of 76 A
- Fast connection method 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
- 1-pos. terminal blocks with double pinning

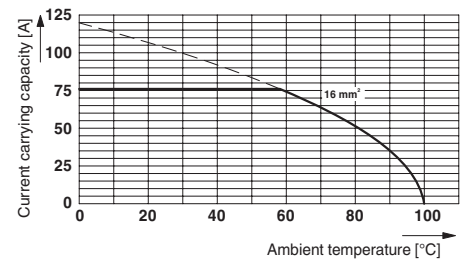
- 1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.
- 2) UL/CUL on request.

Accessories

For all types	Type	Page
	Marker card SK 10/5	491
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520	
	Ferrules with and without plastic sleeve	502
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	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

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

SPT 16/ 1-V-10,0

Rated current / conductor cross-section	76 ¹⁾ / 16
Rated insulation voltage with pollution degree 2	1000
Pitch	10
Connection capacity	
Solid & multi-strand / stranded	0.75 - 16 / 0.75 - 16 / 20 - 4
Stranded with ferrules without plastic sleeve	0.75 - 16
Stranded with ferrules with plastic sleeve	0.75 - 10
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid & multi-strand / stranded	- / -
Stranded with ferrules without plastic sleeve	-
Stranded with TWIN ferrules with plastic sleeve	0.75 - 4
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	1000 1000 1000
Rated surge voltage	8 8 6
Approval data (UL/CUL)	B C D
Nominal voltage	- 2) -
Nominal current	- 2) -
Connection capacity AWG	- - -
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	18
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	1.7 / 1.2 x 1 mm

SPT 16/...-V-10,0-ZB

Rated current / conductor cross-section	76 ¹⁾ / 16
Rated insulation voltage with pollution degree 2	1000
Pitch	10
Connection capacity	
Solid & multi-strand / stranded	0.75 - 16 / 0.75 - 16 / 20 - 4
Stranded with ferrules without plastic sleeve	0.75 - 16
Stranded with ferrules with plastic sleeve	0.75 - 10
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid & multi-strand / stranded	- / -
Stranded with ferrules without plastic sleeve	-
Stranded with TWIN ferrules with plastic sleeve	0.75 - 4
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	1000 1000 1000
Rated surge voltage	8 8 6
Approval data (UL/CUL)	B C D
Nominal voltage	- 2) -
Nominal current	- 2) -
Connection capacity AWG	- - -
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	18
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	1.7 / 1.2 x 1 mm

No. of pos.

1	
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
9	80.00



SPT 16/ 1-V-10,0

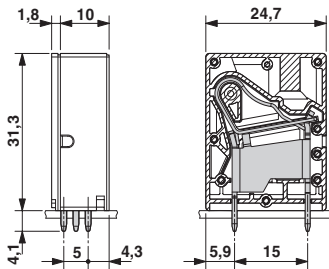
Push-in single PCB terminal blocks, vertical,
double pinning



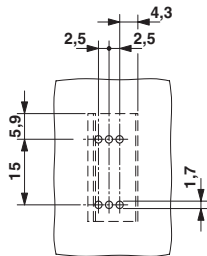
SPT 16/...-V-10,0-ZB

Push-in PCB terminal blocks, vertical,
UL 600 V

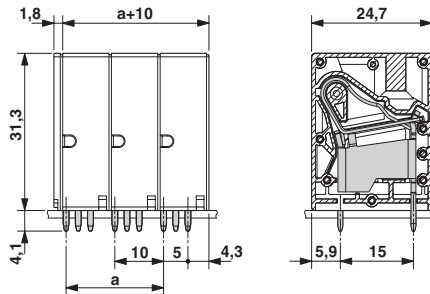
Dimensional drawing



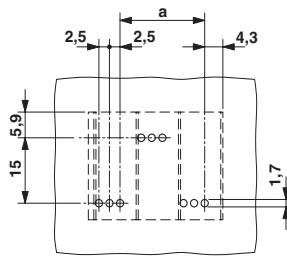
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.0 mm pitch, color: green		
SPT 16/ 1-V-10,0	1735862	50

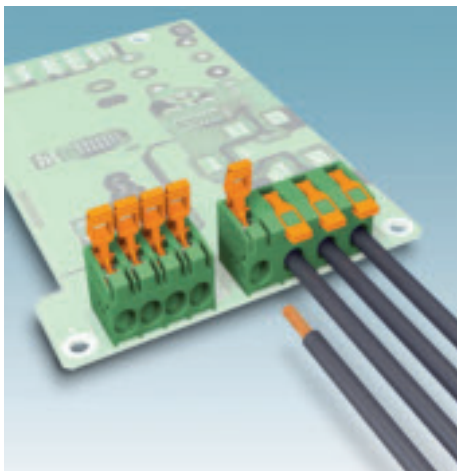
Ordering data

Type	Order No.	Pcs. / Pkt.
10.0 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

COMBICON power

PCB terminal blocks with push-lock spring-cage connection

PLH 16 series up to 16 mm²



- Push-lock spring-cage PCB terminal block PLH 16 with a tilting lever operation for conductor cross-sections of up to 16 mm² and a current carrying capacity of up to 76 A
- Low actuation forces
- Fast connection method 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
- Connection direction of the conductor horizontal to the PCB
- Position to position color coding is possible thanks to terminal blocks that can be lined up next to each other and tilting lever colors

¹⁾ UL/CUL on request.

²⁾ Applies to solid 16 mm² conductors. Additional data is available at www.phoenixcontact.net/eshop.

Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Marker card SK U/3,8 WH: UNBEDRUCKT Order No. 0803906	
	Ferrules with and without plastic sleeve	502
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

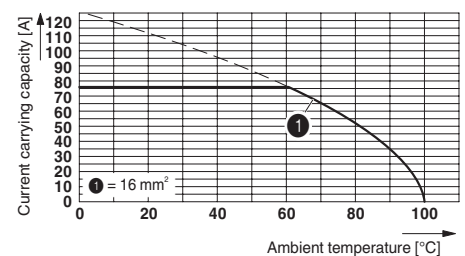
Current carrying capacity curve

Type: PLH 16/...-10-ZF

Test based on DIN EN 60512-5-2:2003-01

Number of positions: 3

Conductor cross-section: 16 mm² (only for solid conductors)



Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

PLH 16/...-10

	76 ²⁾ / 16		
	400		
	10		
	0.75 - 16 / 0.75 - 16 / 18 - 4		
	0.75 - 16		
	0.75 - 10		
	- / -		
	-		
	0.75 - 4		
	III / 3	III / 2	II / 2
	400	400	800
	4	4	4
	B	C	D
	-	¹⁾	-
	-	¹⁾	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	18		
	PA / I		
	V0		
	1.6 / 1.2 x 1.2 mm		

PLH 16/...-10-ZF

	76 ²⁾ / 16		
	1000		
	10		
	0.75 - 16 / 0.75 - 16 / 18 - 4		
	0.75 - 16		
	0.75 - 10		
	- / -		
	-		
	0.75 - 4		
	III / 3	III / 2	II / 2
	1000	1000	1000
	8	8	8
	B	C	D
	-	¹⁾	-
	-	¹⁾	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	18		
	PA / I		
	V0		
	1.6 / 1.2 x 1.2 mm		

PLH 16/...-15

	76 ²⁾ / 16		
	1000		
	15		
	0.75 - 16 / 0.75 - 16 / 18 - 4		
	0.75 - 16		
	0.75 - 10		
	- / -		
	-		
	0.75 - 4		
	III / 3	III / 2	II / 2
	1000	1000	1000
	8	8	8
	B	C	D
	-	¹⁾	-
	-	¹⁾	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	18		
	PA / I		
	V0		
	1.6 / 1.2 x 1.2 mm		

No. of pos. Dim. a [mm]

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



PLH 16/...-10

Push-lock PCB terminal block, horizontal, double pinning



PLH 16/...-10-ZF

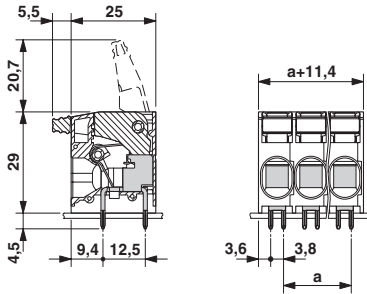
Push-lock PCB terminal block, horizontal, UL 600 V, zig-zag pinning



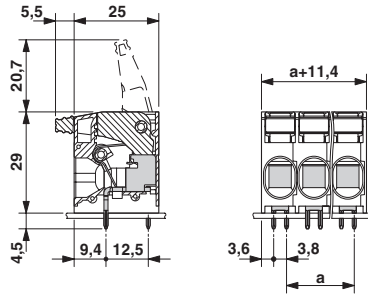
PLH 16/...-15

Push-lock PCB terminal block, horizontal, UL 600 V

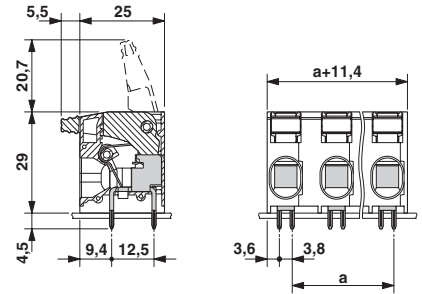
Dimensional drawing



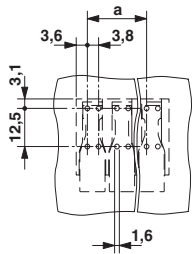
Dimensional drawing



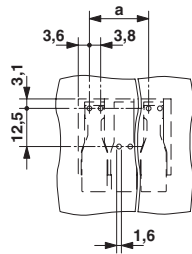
Dimensional drawing



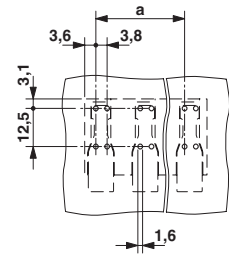
Drilling diagram



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.0 mm pitch, color: green		
PLH 16/ 2-10	1770393	50
PLH 16/ 3-10	1770403	50
PLH 16/ 4-10	1770416	50
PLH 16/ 5-10	1770429	50
PLH 16/ 6-10	1770432	50
PLH 16/ 7-10	1770445	50
PLH 16/ 8-10	1770458	50

Ordering data

Type	Order No.	Pcs. / Pkt.
10.0 mm pitch, color: green		
PLH 16/ 2-10-ZF	1770461	50
PLH 16/ 3-10-ZF	1770474	50
PLH 16/ 4-10-ZF	1770487	50
PLH 16/ 5-10-ZF	1770490	50
PLH 16/ 6-10-ZF	1770500	50
PLH 16/ 7-10-ZF	1770513	50
PLH 16/ 8-10-ZF	1770526	50

Ordering data

Type	Order No.	Pcs. / Pkt.
15.0 mm pitch, color: green		
PLH 16/ 2-15	1770539	50
PLH 16/ 3-15	1770542	50
PLH 16/ 4-15	1770555	50
PLH 16/ 5-15	1770568	50
PLH 16/ 6-15	1770571	50
PLH 16/ 7-15	1770584	50
PLH 16/ 8-15	1770597	50

COMBICON power

PCB terminal blocks with spring-cage connection

ZFKDS 4 series up to 6 mm²



- PCB terminal blocks with spring-cage connection up to 6 mm² conductor cross-section
- Fully insulated bridges (FBSK) with different numbers 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
- ZFKDSA end terminal

Note:

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

Note:

The current-carrying capacity of the FBSK-ZFKDS 4 plug-in bridge is 20 A (refer to laboratory data sheet).

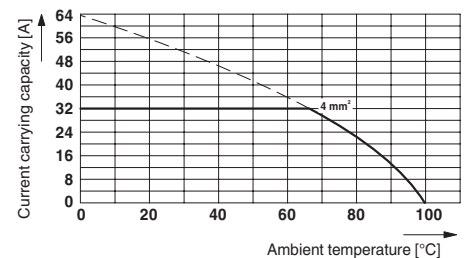
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

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 card SK 7,5/5 or SK10/5	490
	Flat zack marker strip ZBF 7,5 or ZBF 10	495
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Only for ZFKDS 4...		
	Plug-in bridge FBSK...	499

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



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

ZFKDS 4-7,5

Rated current / conductor cross-section	32 ¹⁾ / 4
Rated insulation voltage with pollution degree 2	630
Pitch	7.5
Connection capacity	
Solid / stranded	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve	0.25 - 4
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	- / -
Stranded with ferrules without plastic sleeve	-
Stranded with TWIN ferrules with plastic sleeve	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	500 630 1000
Rated surge voltage	6 6 6
Approval data (UL/CUL)	B C D
Nominal voltage	300 150 300
Nominal current	30 30 10
Connection capacity AWG	24 - 10 24 - 10 24 - 10
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	10
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	1.8 / 1.0 x 1.4 mm

ZFKDS 4-10

Rated current / conductor cross-section	32 ¹⁾ / 4
Rated insulation voltage with pollution degree 2	630
Pitch	10
Connection capacity	
Solid / stranded	0.2 - 6 / 0.2 - 4 / 24 - 10
Stranded with ferrules without plastic sleeve	0.25 - 4
Stranded with ferrules with plastic sleeve	0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	- / -
Stranded with ferrules without plastic sleeve	-
Stranded with TWIN ferrules with plastic sleeve	-
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	630 630 1000
Rated surge voltage	6 6 6
Approval data (UL/CUL)	B C D
Nominal voltage	300 300 600
Nominal current	30 30 5
Connection capacity AWG	24 - 10 24 - 10 24 - 10
Approval data (CSA)	B C D
Nominal voltage	- - -
Nominal current	- - -
Connection capacity AWG	- - -
General data	
Stripping length	10
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	1.8 / 1.0 x 1.4 mm

No. of pos.

1

1



ZFKDS 4-7,5

Spring-cage single PCB terminal block, with test connection, bridgeable

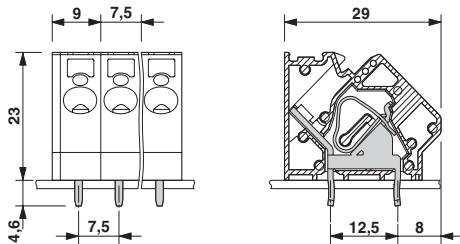


ZFKDS 4-10

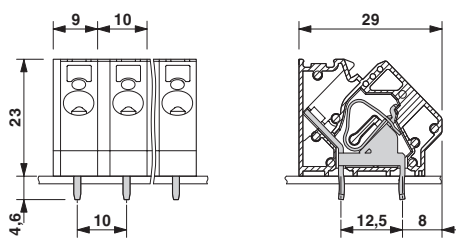
Spring-cage single PCB terminal block, with test connection, bridgeable



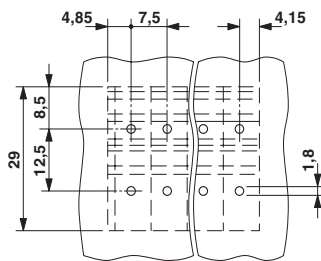
Dimensional drawing



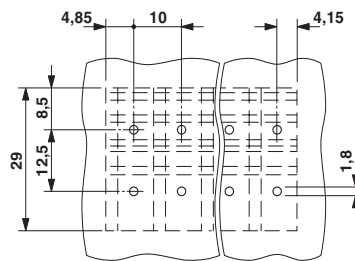
Dimensional drawing



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: green		
ZFKDS 4- 7,5	1907526	50
End terminal, 9 mm wide, required at the end of a terminal row		
ZFKDSA 4- 9	1907542	50

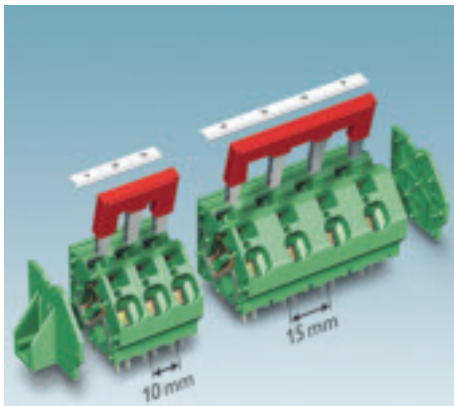
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: green		
ZFKDS 4-10	1907539	50
End terminal, 9 mm wide, required at the end of a terminal row		
ZFKDSA 4- 9	1907542	50

COMBICON power

PCB terminal blocks with spring-cage connection

ZFKDS 10 series up to 16 mm²



- 15 mm pitch for unrestricted 600 V UL approval
- Fully insulated bridges (FBSK) with different numbers of positions, e. g. for potential distribution
- Integrated test connection
- Optional mounting flange (FL) for safe mounting in the device
- Colored marking of individual positions is possible
- ZFKDSA end terminal
- PCB terminal blocks with spring-cage connection up to 16 mm² conductor cross-section

Note:

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

Note:

The current-carrying capacity of the FBSK-ZFKDS 10 plug-in bridge is 57 A (refer to 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	Type	Page
	Pair of flanges FL-ZFKDS 10 Order No. 1987070	
	Screwdriver SZF 3-1,0 x 5,5 Order No. 1206612	
	Marker card SK 10/5 or SK 15/5	491
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	
Only for ZFKDS 10-...		
	Plug-in bridge FBSK.../ZFKDS 10	499

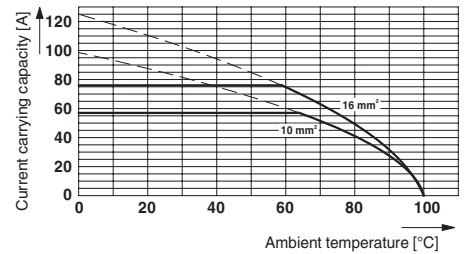
Current carrying capacity curve

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



Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter / pin dimensions [mm]

ZFKDS 10-10,00

76 ²) / 16			76 ²) / 16		
400			1000 ¹⁾		
10			15		
0.2 - 16 / 0.2 - 16 / 24 - 6			0.2 - 16 / 0.2 - 16 / 24 - 6		
0.25 - 10			0.25 - 10		
0.25 - 10			0.25 - 10		
- / -			- / -		
-			-		
-			-		
III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
320	400	800	1000 ¹⁾	1000 ¹⁾	1000 ¹⁾
4	4	4	8	8	8
B	C	D	B	C	D
300	150	300	600	600	-
65	65	10	65	65	-
24 - 6	24 - 6	24 - 6	24 - 6	24 - 6	-
B	C	D	B	C	D
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
12			12		
PA / I			PA / I		
V0			V0		
2.2 / 1.2 x 1.4			2.2 / 1.2 x 1.4		

No. of pos.

1

1

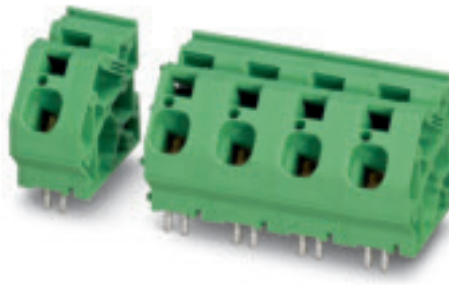
1

1



ZFKDS 10-10,00

Spring-cage single PCB terminal block, with test connection, bridgeable

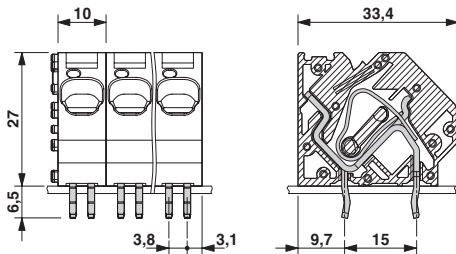


ZFKDS 10-15,00

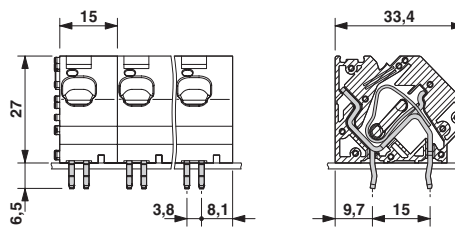
Spring-cage single PCB terminal block, with test connection, bridgeable, UL 600 V



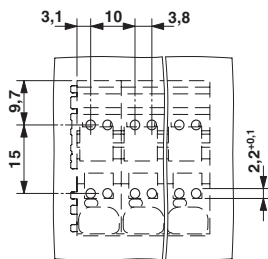
Dimensional drawing



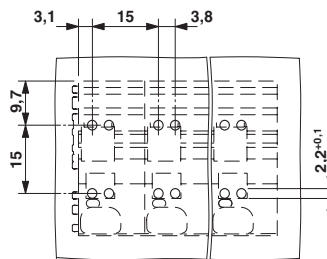
Dimensional drawing



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: green		
ZFKDS 10-10,00	1986628	50
End terminal, 11.7 mm wide, required at the end of a terminal row		
ZFKDSA 10-11,7	1987054	50

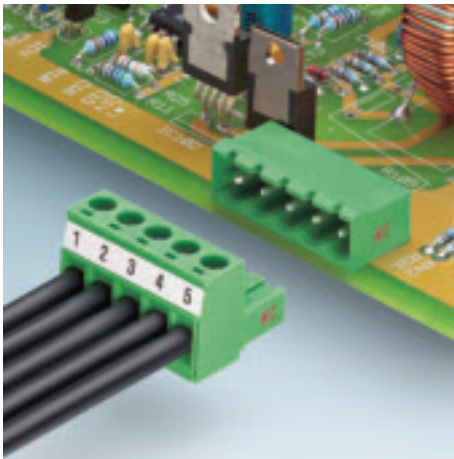
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: green		
ZFKDS 10-15,00	1986631	50
End terminal, 16.7 mm wide, required at the end of a terminal row,		
ZFKDSA 10-16,7	1987067	50

COMBICON power

HC series connectors up to 2.5 mm²

Plug components with a screw connection up to 16 A



- The "High Current" (HC) versions transfer a current of 16 A
- MSTB 2,5 HC plugs should be used only with HC base strips
- The double steel spring ensures additional safety, especially in the case of temperature and capacity fluctuations
- Keying profile CP-MSTB as protection against mismatching
- Available as a T-version (MSTBT 2,5 HC)

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of high current connectors.

Corresponding headers can be found from page 354.

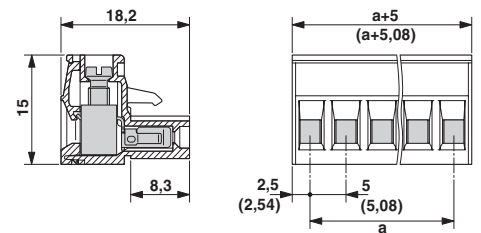
*) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



MSTB 2,5 HC/...-ST



Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / group of insulation material	
Inflammability class acc. to UL 94	

16 ¹⁾ / 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 - 1 / 0.2 - 1.5		
0.25 - 1		
0.5 - 1.5		
III / 3	III / 2	II / 2
250	320	630
4	4	4
B	C	D
250	-	300
16	-	10
30 - 12	-	30 - 12
B	C	D
-	-	-
-	-	-
-	-	-
7		
M3		
0.5 - 0.6		
PA / I		
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

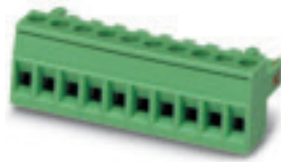
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5 HC/ 2-ST	1911855	50
MSTB 2,5 HC/ 3-ST	1911868	50
MSTB 2,5 HC/ 4-ST	1911871	50
MSTB 2,5 HC/ 5-ST	1911884	50
MSTB 2,5 HC/ 6-ST	1911897	50
MSTB 2,5 HC/ 7-ST	1911907	50
MSTB 2,5 HC/ 8-ST	1911910	50
MSTB 2,5 HC/ 9-ST	1911923	50
MSTB 2,5 HC/10-ST	1911936	50
MSTB 2,5 HC/11-ST	1911949	50
MSTB 2,5 HC/12-ST	1911952	50
5.08 mm pitch, color: green		
MSTB 2,5 HC/ 2-ST-5,08	1911965	50
MSTB 2,5 HC/ 3-ST-5,08	1911978	50
MSTB 2,5 HC/ 4-ST-5,08	1911981	50
MSTB 2,5 HC/ 5-ST-5,08	1911994	50
MSTB 2,5 HC/ 6-ST-5,08	1912003	50
MSTB 2,5 HC/ 7-ST-5,08	1912016	50
MSTB 2,5 HC/ 8-ST-5,08	1912029	50
MSTB 2,5 HC/ 9-ST-5,08	1912032	50
MSTB 2,5 HC/10-ST-5,08	1912045	50
MSTB 2,5 HC/11-ST-5,08	1912058	50
MSTB 2,5 HC/12-ST-5,08	1912061	50



MSTB 2,5 HC/...-STF

With screw flange

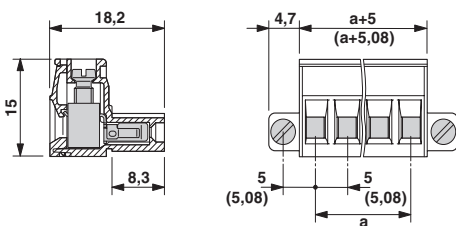


MSTBT 2,5 HC/...-ST

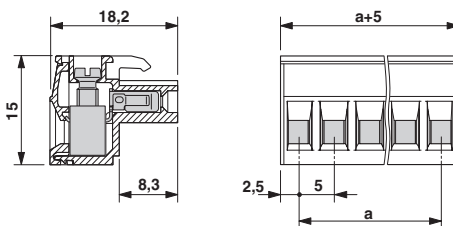
T-shape



Dimensional drawing

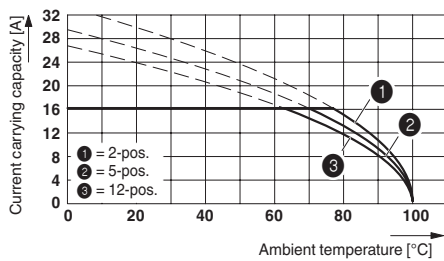


Dimensional drawing

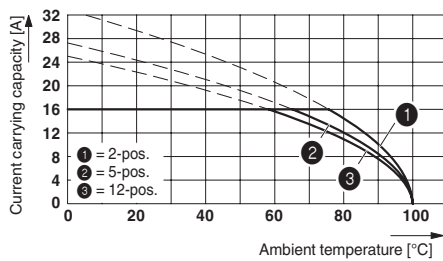


Representative derating curves of the above-mentioned plugs

Type: MSTB 2,5 HC/...-ST with MSTBA 2,5 HC/...-G



Type: MSTBT 2,5 HC/...-ST with MSTBVA 2,5 HC/...-G

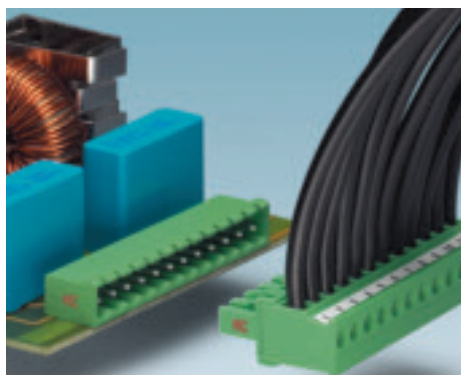


Ordering data

Type	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

Type	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



- 16 A plug components with vertical connection direction and screw connection
- MVSTBR 2,5 HC...ST, conductor entry on the keying side of the connector
- MVSTBW 2,5 HC...ST, conductor entry on the rippled side of the connector
- HC plugs should be used only with HC base strips
- Versions with a screw flange (-STF) for a vibration-resistant connection

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)



For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker cards SK 5/3,8 or SK 5,08/3,8	488

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 with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / group of insulation material	
Inflammability class acc. to UL 94	

16') / 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 - 1 / 0.2 - 1.5		
0.25 - 1		
0.5 - 1.5		
III / 3	III / 2	II / 2
250	320	630
4	4	4
B	C	D
250	-	300
16	-	10
30 - 12	-	30 - 12
B	C	D
-	-	-
-	-	-
-	-	-
7		
M3		
0.5 - 0.6		
PA / I		
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
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

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBR 2,5 HC/ 2-ST	1912294	50
MVSTBR 2,5 HC/ 3-ST	1912304	50
MVSTBR 2,5 HC/ 4-ST	1912317	50
MVSTBR 2,5 HC/ 5-ST	1912320	50
MVSTBR 2,5 HC/ 6-ST	1912333	50
MVSTBR 2,5 HC/ 7-ST	1912346	50
MVSTBR 2,5 HC/ 8-ST	1912359	50
MVSTBR 2,5 HC/ 9-ST	1912362	50
MVSTBR 2,5 HC/10-ST	1912375	50
MVSTBR 2,5 HC/11-ST	1912388	50
MVSTBR 2,5 HC/12-ST	1912391	50
5.08 mm pitch, color: green		
MVSTBR 2,5 HC/ 2-ST-5,08	1912401	50
MVSTBR 2,5 HC/ 3-ST-5,08	1912414	50
MVSTBR 2,5 HC/ 4-ST-5,08	1912427	50
MVSTBR 2,5 HC/ 5-ST-5,08	1912430	50
MVSTBR 2,5 HC/ 6-ST-5,08	1912443	50
MVSTBR 2,5 HC/ 7-ST-5,08	1912456	50
MVSTBR 2,5 HC/ 8-ST-5,08	1912469	50
MVSTBR 2,5 HC/ 9-ST-5,08	1912472	50
MVSTBR 2,5 HC/10-ST-5,08	1912485	50
MVSTBR 2,5 HC/11-ST-5,08	1912498	50
MVSTBR 2,5 HC/12-ST-5,08	1912508	50



MVSTBR 2,5 HC/...-STF

With screw flange, connection point facing the smooth panel of the header (R)



MVSTBW 2,5 HC/...-ST

Connection point facing the rippled wall of the header (W)

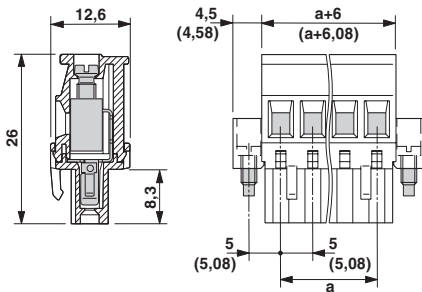


MVSTBW 2,5 HC/...-STF

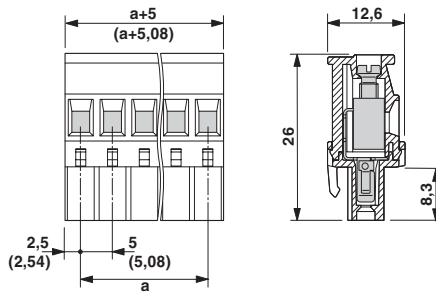
With screw flange, connection point facing the rippled wall (W) of the header



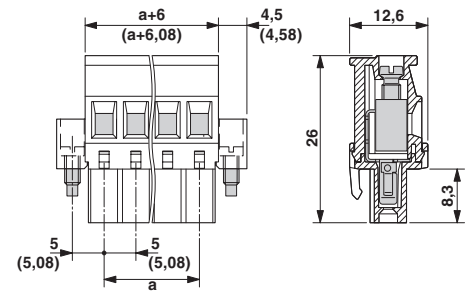
Dimensional drawing



Dimensional drawing

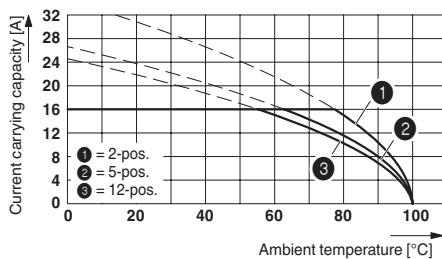


Dimensional drawing



Representative derating curve

Type: MVSTBR 2,5 HC/...-ST with MSTBVA 2,5 HC/...-G



Ordering data

Type	Order No.	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

Type	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

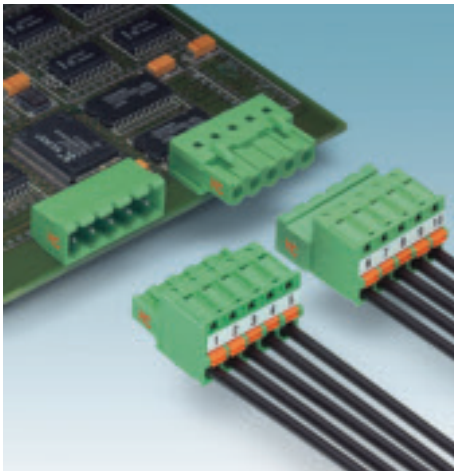
Ordering data

Type	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

COMBICON power

HC series connectors up to 2.5 mm²

Plug components with spring-cage connection of up to 16 A



- Push-in spring-cage connector as a "High Current" (HC) version for 16 A
- Inverted versions with a male contact (FKIC 2,5 HC); e.g. for cable-cable connections or motor outputs
- HC plugs should be used only with HC base strips
- Two integrated test connections
- Keying profiles (CP) as protection against mismatching
- Versions with screw flange (STF)

Note:

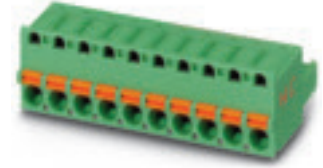
In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of high current connectors.

Corresponding headers can be found from page 354.

Corresponding inverted headers can be found from page 356.

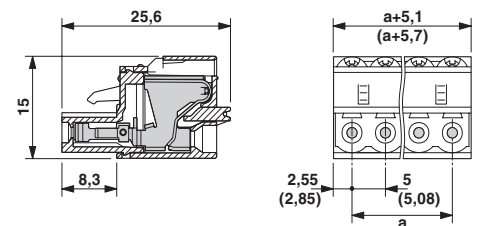
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



FKC 2,5 HC/...-ST



Dimensional drawing



Derating curve informations

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

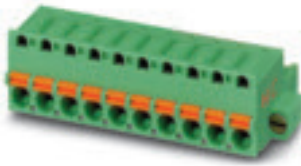
Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²] 16 ¹⁾ / 2.5
Rated insulation voltage with pollution degree 2	[V] 320
Pitch	[mm] 5 / 5.08
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.2 - 2.5 / 0.2 - 2.5 / 24 - 12
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 2.5
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 1.5
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	[mm ²] - / -
Stranded with ferrules without plastic sleeve	[mm ²] -
Stranded with TWIN ferrules with plastic sleeve	[mm ²] 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 B C D
Nominal voltage	[V] 250 - 300
Nominal current	[A] 16 - 10
Connection capacity AWG	AWG 26 - 12 - 26 - 12
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 10
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0

Accessories

For all types	Type	Page
	Strain relief STZ ...FKC-5,08	501
	Test plug MPS	506
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
Only for FKIC 2,5 HC/...-ST(F)		
	Keying profile CP-MSTB Order No. 1734634	38
Only for FKIC 2,5 HC/...-ST(F)		
	Keying section CR-MSTB Order No. 1734401	38

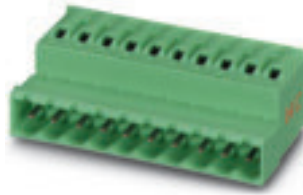
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
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



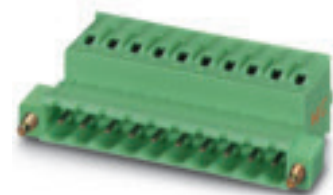
FKC 2,5 HC/...-STF

With screw flange



FKIC 2,5 HC/...-ST

Inverted with male contact

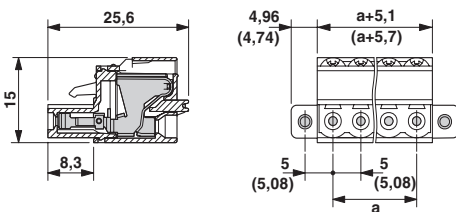


FKIC 2,5 HC/...-STF

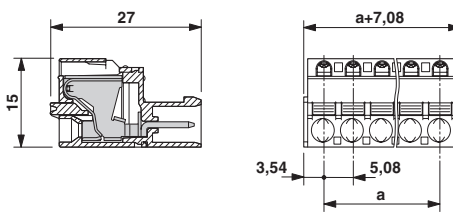
Inverted with male contact, with screw flange



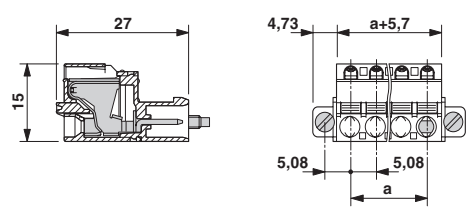
Dimensional drawing



Dimensional drawing

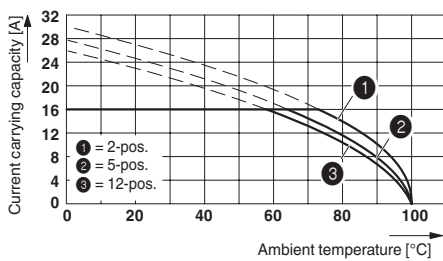


Dimensional drawing

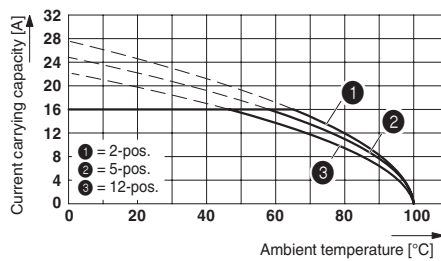


Representative derating curves of the above-mentioned plugs

Type: FKC 2,5 HC/...-ST with MSTBA 2,5 HC/...-G



Type: FKIC 2,5 HC/...-ST- 5,08 with IC 2,5 HC/...-G- 5,08



Ordering data

Type	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

Type	Order No.	Pcs. / Pkt.
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	1942688	50
FKIC 2,5 HC/12-ST-5,08	1942691	50

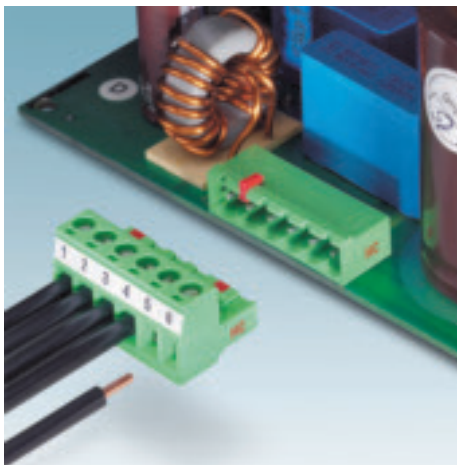
Ordering data

Type	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

COMBICON power

HC series connectors up to 2.5 mm²

Headers up to 16 A with a male contact



- 16 A (HC) header in horizontal and vertical (MSTBV) design
- Lateral HC print ("High Current")
- HC headers 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 mismatching due to side panels

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of high current connectors.

Corresponding plug components can be found from page 348.

Note:

Mounting screws for headers with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. A screw connection is only permitted prior to soldering.

*) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

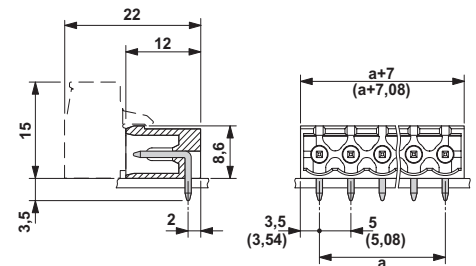


MSTBA 2,5 HC/...-G

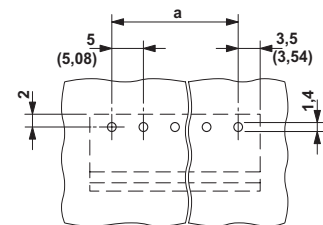
Horizontal



Dimensional drawing



Drilling diagram



Technical data

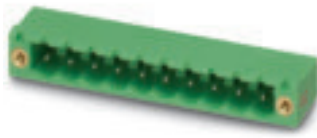
Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

16 ¹⁾ / -	
320	
5 / 5,08	
III / 3	III / 2
250	320
4	4
B	C
250	-
16	-
-	-
B	C
-	-
-	-
PA / I	
V0	
1.4 / 1 x 1 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

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBA 2,5 HC/ 2-G	1923759	50
MSTBA 2,5 HC/ 3-G	1923762	50
MSTBA 2,5 HC/ 4-G	1923775	50
MSTBA 2,5 HC/ 5-G	1923788	50
MSTBA 2,5 HC/ 6-G	1923791	50
MSTBA 2,5 HC/ 7-G	1923801	50
MSTBA 2,5 HC/ 8-G	1923814	50
MSTBA 2,5 HC/ 9-G	1923827	50
MSTBA 2,5 HC/10-G	1923830	50
MSTBA 2,5 HC/11-G	1923843	50
MSTBA 2,5 HC/12-G	1923856	50
5.08 mm pitch, color: green		
MSTBA 2,5 HC/ 2-G-5,08	1923869	50
MSTBA 2,5 HC/ 3-G-5,08	1923872	50
MSTBA 2,5 HC/ 4-G-5,08	1923885	50
MSTBA 2,5 HC/ 5-G-5,08	1923898	50
MSTBA 2,5 HC/ 6-G-5,08	1923908	50
MSTBA 2,5 HC/ 7-G-5,08	1923911	50
MSTBA 2,5 HC/ 8-G-5,08	1923924	50
MSTBA 2,5 HC/ 9-G-5,08	1923937	50
MSTBA 2,5 HC/10-G-5,08	1923940	50
MSTBA 2,5 HC/11-G-5,08	1923953	50
MSTBA 2,5 HC/12-G-5,08	1923966	50



MSTB 2,5 HC/...-GF

Horizontal, with threaded flange



MSTBVA 2,5 HC/...-G

Vertical

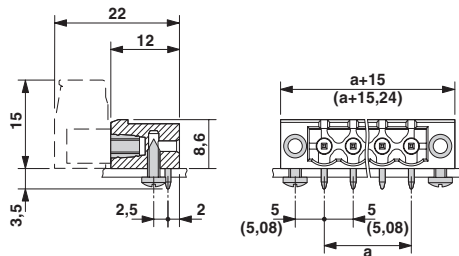


MSTBV 2,5 HC/...-GF

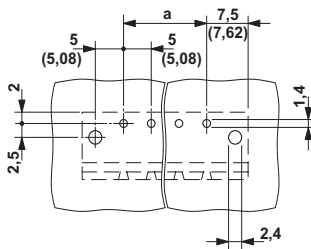
Vertical, with threaded flange



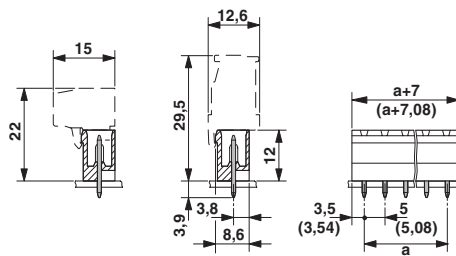
Dimensional drawing



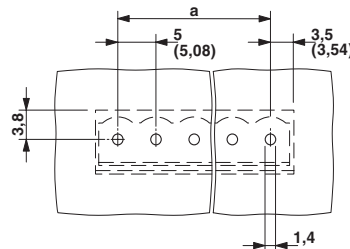
Drilling diagram



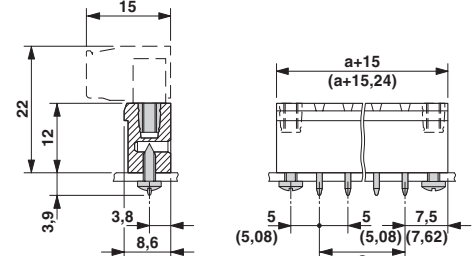
Dimensional drawing



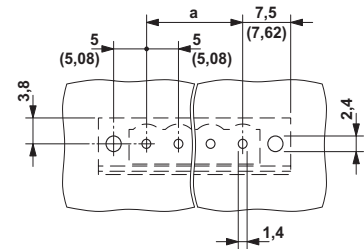
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5 HC/ 2-GF	1923979	50
MSTB 2,5 HC/ 3-GF	1923982	50
MSTB 2,5 HC/ 4-GF	1923995	50
MSTB 2,5 HC/ 5-GF	1924004	50
MSTB 2,5 HC/ 6-GF	1924017	50
MSTB 2,5 HC/ 7-GF	1924020	50
MSTB 2,5 HC/ 8-GF	1924033	50
MSTB 2,5 HC/ 9-GF	1924046	50
MSTB 2,5 HC/10-GF	1924059	50
MSTB 2,5 HC/11-GF	1924062	50
MSTB 2,5 HC/12-GF	1924075	50
5.08 mm pitch, color: green		
MSTB 2,5 HC/ 2-GF-5,08	1924088	50
MSTB 2,5 HC/ 3-GF-5,08	1924091	50
MSTB 2,5 HC/ 4-GF-5,08	1924101	50
MSTB 2,5 HC/ 5-GF-5,08	1924114	50
MSTB 2,5 HC/ 6-GF-5,08	1924127	50
MSTB 2,5 HC/ 7-GF-5,08	1924130	50
MSTB 2,5 HC/ 8-GF-5,08	1924143	50
MSTB 2,5 HC/ 9-GF-5,08	1924156	50
MSTB 2,5 HC/10-GF-5,08	1924169	50
MSTB 2,5 HC/11-GF-5,08	1924172	50
MSTB 2,5 HC/12-GF-5,08	1924185	50

Ordering data

Type	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

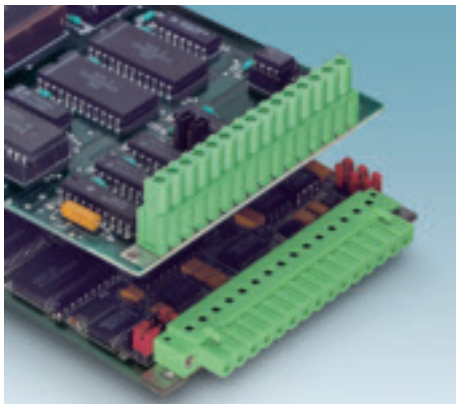
Ordering data

Type	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

COMBICON power

HC series connectors up to 2.5 mm²

Inverted headers up to 16 A with a female contact



- Inverted 16 A (HC) headers with a female 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 headers should be used only with HC plugs

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of high current connectors.

Corresponding inverted plug components can be found from page 353.

Note:

Mounting screws for headers with threaded flange (...GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. A screw connection is only permitted prior to soldering.

¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

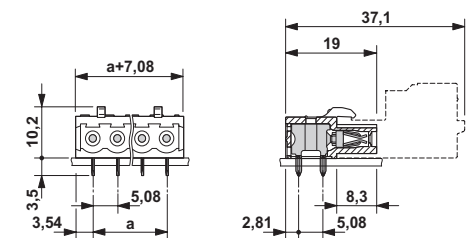


IC 2,5 HC/...-G-5,08

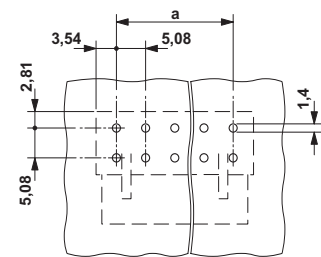
Horizontal, inverted with female contact



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
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
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 / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	[mm]
	1.4 / 1.2 x 0,5 mm

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Test plug MPS	506
	Reducing connector RPS Order No. 0201647	506

Ordering data

Type	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



IC 2,5 HC/...-GF-5,08

Horizontal, inverted with female contact, threaded flange



ICV 2,5 HC/...-G-5,08

Vertical, inverted with female contact

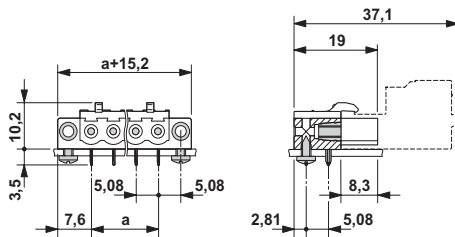


ICV 2,5 HC/...-GF-5,08

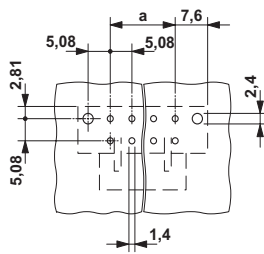
Vertical, inverted with female contact, threaded flange



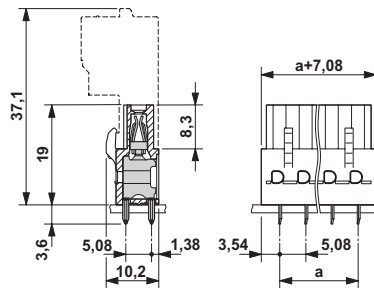
Dimensional drawing



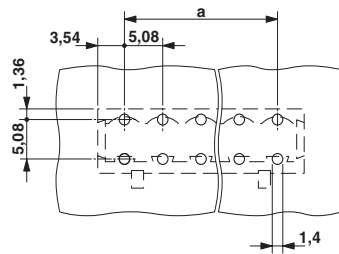
Drilling diagram



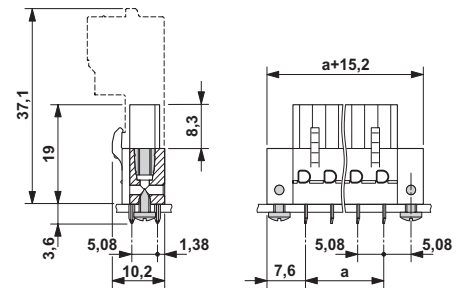
Dimensional drawing



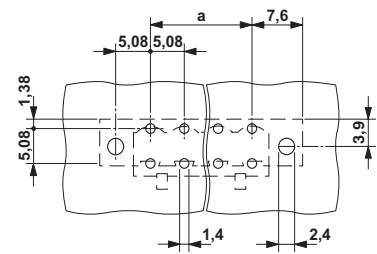
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: green		
IC 2,5 HC/ 2-GF-5,08	1943425	50
IC 2,5 HC/ 3-GF-5,08	1943438	50
IC 2,5 HC/ 4-GF-5,08	1943441	50
IC 2,5 HC/ 5-GF-5,08	1943454	50
IC 2,5 HC/ 6-GF-5,08	1943467	50
IC 2,5 HC/ 7-GF-5,08	1943470	50
IC 2,5 HC/ 8-GF-5,08	1943483	50
IC 2,5 HC/ 9-GF-5,08	1943496	50
IC 2,5 HC/10-GF-5,08	1943506	50
IC 2,5 HC/11-GF-5,08	1943519	50
IC 2,5 HC/12-GF-5,08	1943522	50

Ordering data

Type	Order No.	Pcs. / Pkt.
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

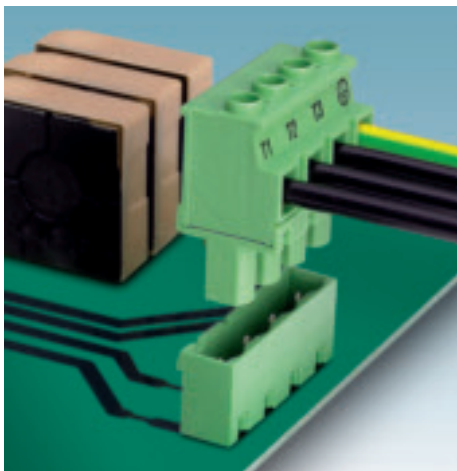
Ordering data

Type	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

COMBICON power

HC series connectors up to 2.5 mm²

Vertical connectors for 600 V UL applications



- High-capacity connectors for voltages of up to 1000 V as per IEC
- Plug components with unrestricted 600 V UL approval
- Plug-in direction vertical to the PCB
- Compatible with the GMSTB 2,5/...-G-7,62 base strips, see page 274

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



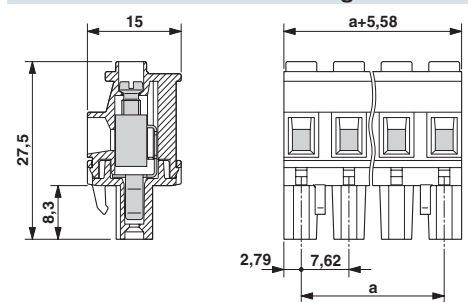
GMVSTBR 2,5 HV/...-ST-7,62

Vertical, 600 V UL,
connection point facing the smooth wall (R) of the header

Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker card SK 7,62/3,8	489

Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 500 630 1000
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 15 15 -
Connection capacity AWG	AWG 30 - 12 30 - 12 -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 7
Screw thread	M3
Tightening torque	[Nm] 0.5 - 0.6
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0

Ordering data

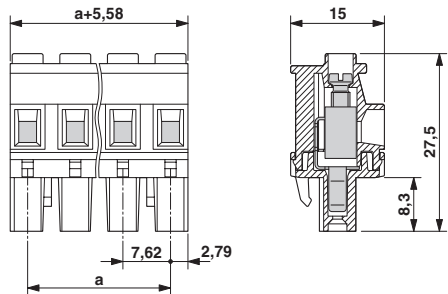
Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
GMVSTBR 2,5 HV/ 2-ST-7,62	1774454	50
GMVSTBR 2,5 HV/ 3-ST-7,62	1993954	50
GMVSTBR 2,5 HV/ 4-ST-7,62	1774467	50



GMVSTBW 2,5 HV/...-ST-7,62

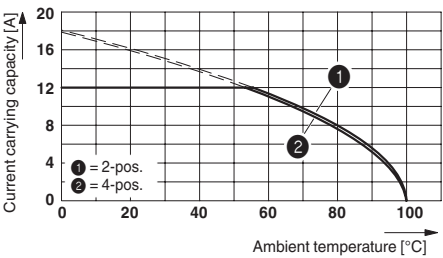
Vertical, 600 V UL,
connection point facing the rippled wall (W) of the header

Dimensional drawing



Representative derating curve

Type: GMVSTBR 2,5 HV/...-ST-7,62 with GMSTBA 2,5/...-G-7,62



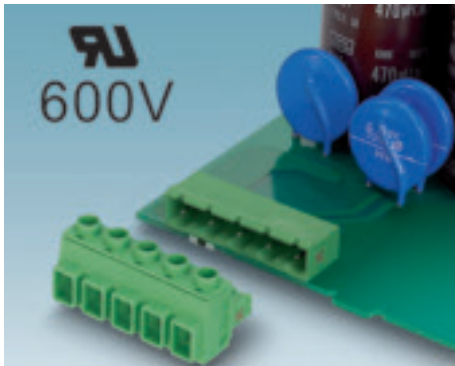
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

HC series connectors up to 2.5 mm²

16 A connector for 600 V UL applications



- 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 the case of temperature and capacity fluctuations

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of high current connectors.

Derating curve informations:

Derating curves, determined as per

DIN EN 61984 (VDE 0627):2002-09

Derating curve, presentation 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.

Accessories

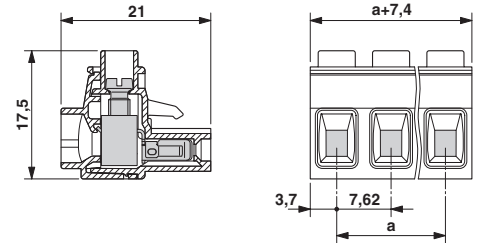
For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker card SK 7,62/3,8	489
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	



GMSTB 2,5 HCV/ ...-ST-7,62

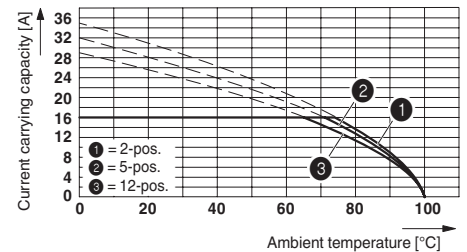
Plug component with female contact and 600 V UL approval

Dimensional drawing



Representative derating curve

Type: GMSTB 2,5 HCV/...-ST-7,62 with GMSTBA 2,5 HC/...-G-7,62



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / group of insulation material	
Inflammability class acc. to UL 94	

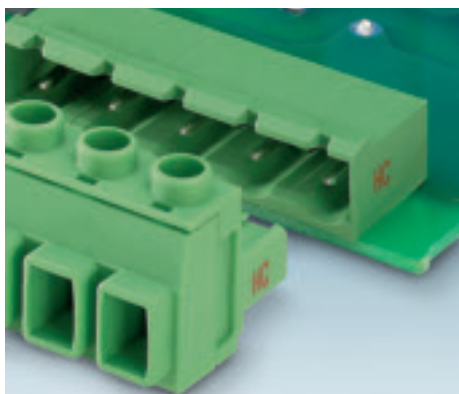
16 ¹⁾ / 2.5		
1000		
7.62		
0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
0.25 - 2.5		
0.25 - 2.5		
0.2 - 1 / 0.2 - 1.5		
0.25 - 1		
0.5 - 1		
III / 3	III / 2	II / 2
1000	1000	1000
8	8	8
B	C	D
600	600	-
16	16	-
30 - 12	30 - 12	-
B	C	D
-	-	-
-	-	-
-	-	-
8		
M3		
0.5 - 0.6		
PA / I		
V0		

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

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

16 A connector for 600 V UL applications



- GMSTB 2,5 HC headers for combination with GMSTB 2,5 HCV plug components
- Compact 7.62 mm pitch
- Available in horizontal design with 2 to 12-pos.
- CR-MSTB keying sections as protection against mismatching

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load. 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.



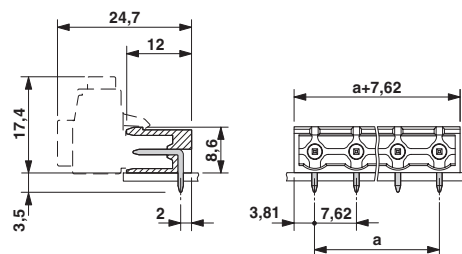
GMSTBA 2,5 HC/ ...-G-7,62

Header with male contact

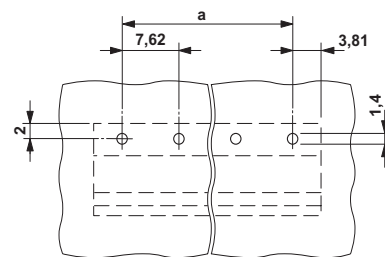
Accessories

For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Marker card SK 7,62/3,8	489
	Keying tab MSTB-BL Order No. 1755477	501

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter/ pin dimensions	[mm]

16 ¹⁾ / -
630
7.62
III / 3 III / 2 II / 2
400 630 630
6 6 6
B C D
250 - 300
16 - 10
- - -
- - -
- - -
PBT / IIIa
V0
1.4 / 1 x 1 mm

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

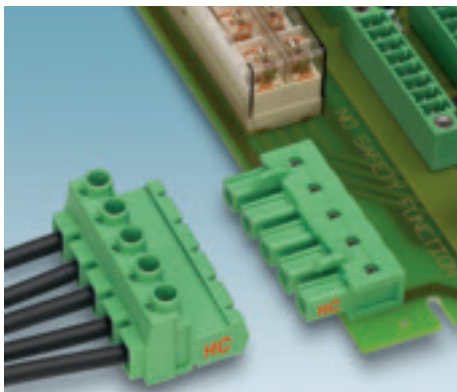
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

HC series connectors up to 2.5 mm²

Inverted 16 A connectors for 600 V UL applications



- Inverted GIC 2,5 HCV plug components with male contacts for touch-proof device outputs (with GIC 2,5 HC/...-G) or free hanging cable-cable connections (with GMSTB 2,5 HCV/... -ST)
- Unrestricted 600 V UL approval
- Pin compatibility with GMSTB 2,5 HCV plug components or inverted GIC 2,5 HC headers
- Compact 7.62 mm pitch

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of high current connectors.

Derating curve informations:

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

No. of positions: see diagram

1) Please observe the derating curves and laboratory data sheets.

Derating curves of further combination options on request.



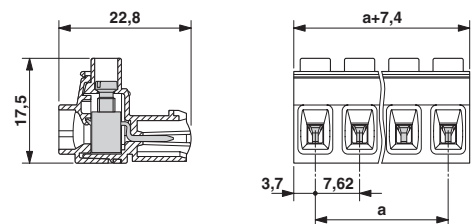
GIC 2,5 HCV/...-ST-7,62

Inverted plug components with male contact, 600 V UL approval

Accessories

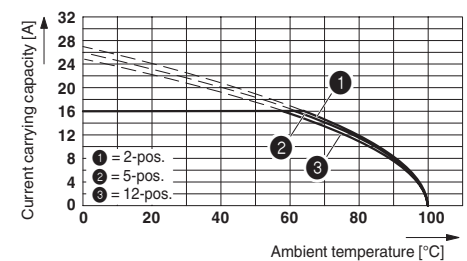
For all types	Type	Page
	Keying section CR-MSTB Order No. 1734401	38
	Marker card SK 7,62/3,8	489
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Keying tab MSTB-BL Order No. 1755477	501

Dimensional drawing



Representative derating curve

Type: GIC 2,5HCV/...-ST-7,62 with GIC 2,5HC/...-G-7,62



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / group of insulation material	
Inflammability class acc. to UL 94	

16 ¹⁾ / 2.5		
1000		
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	II / 2
1000	1000	1000
8	8	8
B	C	D
600	600	-
16	16	-
30 - 12	30 - 12	-
B	C	D
-	-	-
-	-	-
-	-	-
8		
M3		
0.5 - 0.6		
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

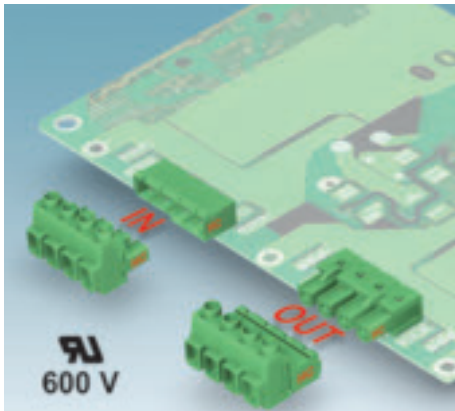
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

HC series connectors up to 2.5 mm²

Inverted 16 A headers for 600 V UL applications



- Inverted GIC 2,5 HC headers with female 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 due to an integrated double steel spring
- Pin compatibility with inverted GIC 2,5 HCV plug components or GMSTBA 2,5 HC headers
- CP-MSTB keying profile as protection against mismatching
- Compact 7.62 mm pitch

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

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.



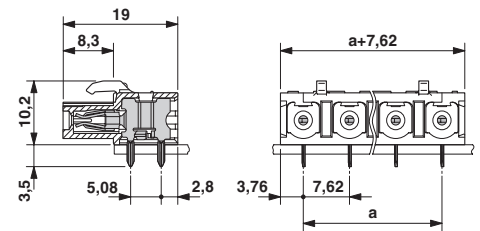
GIC 2,5 HC/...-G-7,62

Inverted headers with female contact, horizontal

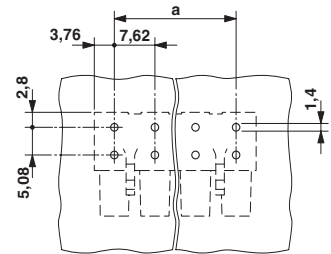
Accessories

For all types	Type	Page
	Keying profile CP-MSTB Order No. 1734634	38
	Marker card SK 7,62/3,8	489
	Reducing connector RPS Order No. 0201647	506
	Test plug MPS	506

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

16 ¹⁾ / -		
630		
7.62		
III / 3	III / 2	II / 2
630	630	1000
6	6	6
B	C	D
250	-	300
16	-	10
-	-	-
B	C	D
-	-	-
-	-	-
-	-	-
PA / I		
V0		
1.4 / 1.2 x 0.5		

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

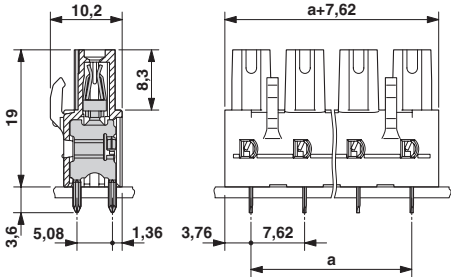


GICV 2,5 HC/ 2-G-7,62

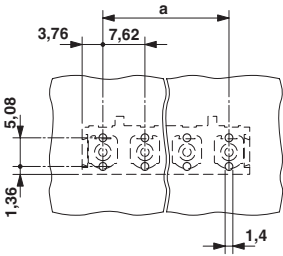
Inverted headers with female contact, vertical



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 4 series connectors of up to 4 mm²

Plug components with screw connection up to 20 A



- High-capacity plug components with a current carrying capacity of 20 A
- Screw connection up to 4 mm², stranded
- Integrated double steel spring as extra safety against contact corrosion
- Available with 2 to 12 positions
- Vibration-resistant connection with a screw flange (PC 4/...-STF-7,62)
- Plug components can be keyed using the CP-HCC 4 keying profiles

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

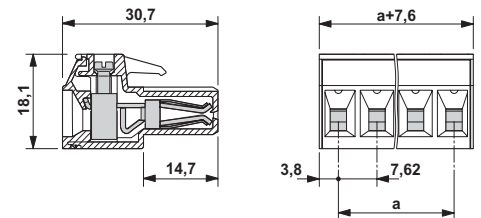
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



PC 4 /...-ST-7,62



Dimensional drawing



Derating curve informations

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

Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 630 1000
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 20 20 5
Connection capacity AWG	AWG 30 - 10 30 - 10 30 - 10
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG 28 - 10 28 - 10 -
General data	
Stripping length	[mm] 7
Screw thread	M3
Tightening torque	[Nm] 0.5 - 0.6
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker card SK 7,62/3,8	489
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		7.62 mm pitch, 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

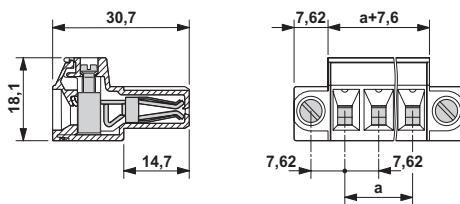


PC 4/...-STF-7,62

With screw flange

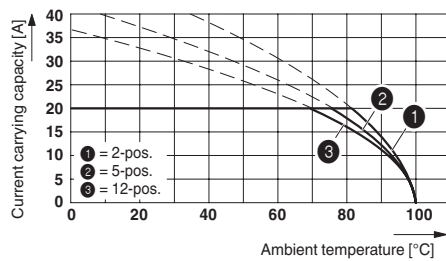


Dimensional drawing



Representative derating curve

Type: PC 4/...-STF-7,62 with PC 4/...-G-7,62



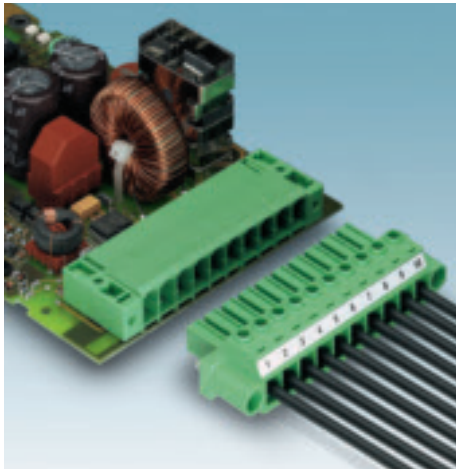
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 4 series connectors of up to 4 mm²

20 A plug components for 600 V UL applications



- High-capacity plug components with an unrestricted 600 V UL approval
- PC 4 HV/...-STF-SH provides a professional shield for adherence to the EMC requirements and an optional strain relief
- Double steel spring as extra safety
- Vibration-resistant connection with a screw flange (-STF)
- CP-HCC 4 keying profile as protection against mismatching

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Dimensional drawing of the versions with screw flange at www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) Different voltage values with PC 4 HV/...-STF-SH-7,62:

III/3 = 500 V

III/2 = 800 V

II/2 = 1000 V

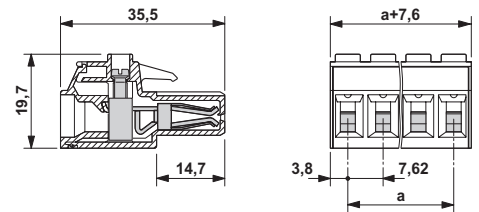


PC 4 HV/...-ST-7,62

600 V UL approval



Dimensional drawing



Derating curve informations

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

Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 800 ²⁾ 1000 ²⁾ 1000 ²⁾
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG 30 - 10 30 - 10 -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG 28 - 10 28 - 10 -
General data	
Stripping length	[mm] 10
Screw thread	M3
Tightening torque	[Nm] 0.5 - 0.6
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Marker card SK 7,62/3,8	489

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		7.62 mm pitch, color: green		
2	7.62	PC 4 HV/ 2-ST-7,62	1848892	50
3	15.24	PC 4 HV/ 3-ST-7,62	1848902	50
4	22.86	PC 4 HV/ 4-ST-7,62	1848915	50
5	30.48	PC 4 HV/ 5-ST-7,62	1880025	50
6	38.10	PC 4 HV/ 6-ST-7,62	1880038	50
7	45.72	PC 4 HV/ 7-ST-7,62	1880041	50
8	53.34	PC 4 HV/ 8-ST-7,62	1880054	50
9	60.96	PC 4 HV/ 9-ST-7,62	1880067	50
10	68.58	PC 4 HV/10-ST-7,62	1880070	50
11	76.20	PC 4 HV/11-ST-7,62	1880083	50
12	83.82	PC 4 HV/12-ST-7,62	1880096	50



PC 4 HV/...-STF-7,62

600 V UL approval, with screw flange

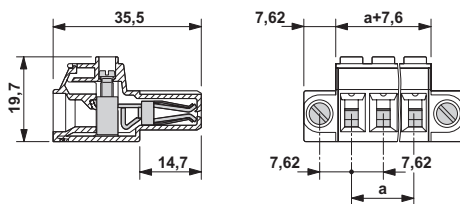


PC 4 HV/...-STF-SH-7,62

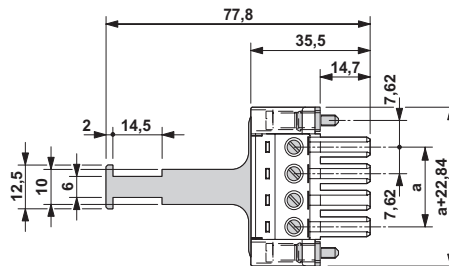
600 V UL approval, with screw flange and shield



Dimensional drawing

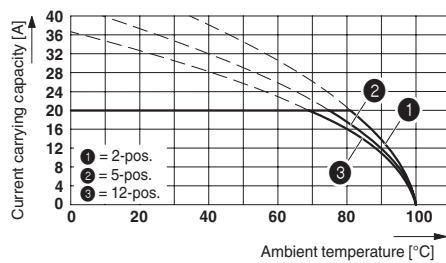


Dimensional drawing



Representative derating curve

Type: PC 4HV/...-ST-7,62 with PC 4/...-G-7,62



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
PC 4 HV/ 2-STF-7,62	1882379	50
PC 4 HV/ 3-STF-7,62	1882382	50
PC 4 HV/ 4-STF-7,62	1882395	50
PC 4 HV/ 5-STF-7,62	1880106	50
PC 4 HV/ 6-STF-7,62	1880119	50
PC 4 HV/ 7-STF-7,62	1880122	50
PC 4 HV/ 8-STF-7,62	1880135	50
PC 4 HV/ 9-STF-7,62	1880148	50
PC 4 HV/10-STF-7,62	1880151	50
PC 4 HV/11-STF-7,62	1880164	50
PC 4 HV/12-STF-7,62	1880177	50

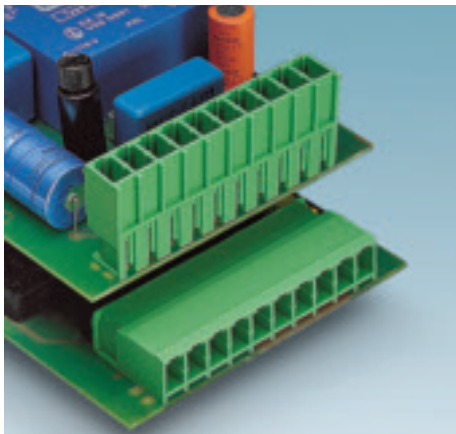
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
PC 4 HV/ 2-STF-SH-7,62	1971507	50
PC 4 HV/ 4-STF-SH-7,62	1966428	50

COMBICON power

PC 4 series connectors of up to 4 mm²

Headers up to 20 A with a male contact



- PC 4 headers for combination with all PC 4 plug components
- Horizontal and vertical (PCV) versions Available with 2 to 12 positions
- 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-HCC 4 keying profile as protection against mismatching

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

Note:

Mounting screw for PC(V) 4-G-7,62 with BF-PC 4: sheet metal screw ISO 1481-ST 2.9x9,5 C. A screw connection is only permitted prior to soldering.

¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

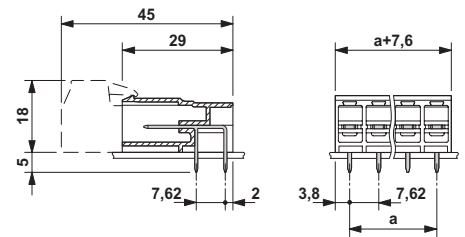


PC 4/...-G-7,62

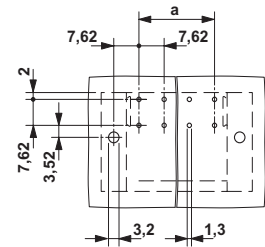
Horizontal



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter / pin dimensions [mm]

Accessories

For all types	Type	Page
	Mounting flange for lateral snapping on BF-PC 4 Order No. 1827570	38
	Keying profile CP-HCC 4 Order No. 1600027	
	Marker card SK 7,62/3,8	
Only for PC 4/...-G-7,62		
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	313

Ordering data

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

Type
7.62 mm pitch, color: green

Order No.

Pcs. / Pkt.

PC 4/ 2-G-7,62

1804797 50

PC 4/ 3-G-7,62

1804807 50

PC 4/ 4-G-7,62

1804810 50

PC 4/ 5-G-7,62

1804823 50

PC 4/ 6-G-7,62

1804836 50

PC 4/ 7-G-7,62

1804849 50

PC 4/ 8-G-7,62

1804852 50

PC 4/ 9-G-7,62

1804865 50

PC 4/10-G-7,62

1804878 50

PC 4/11-G-7,62

1804881 50

PC 4/12-G-7,62

1804894 50

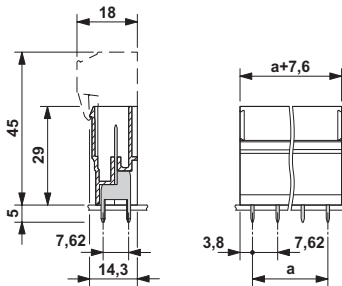


PCV 4/...-G-7,62

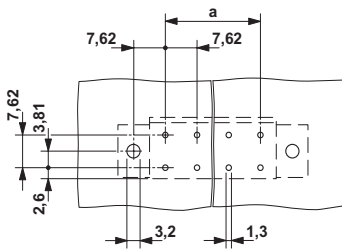
Vertical



Dimensional drawing



Drilling diagram



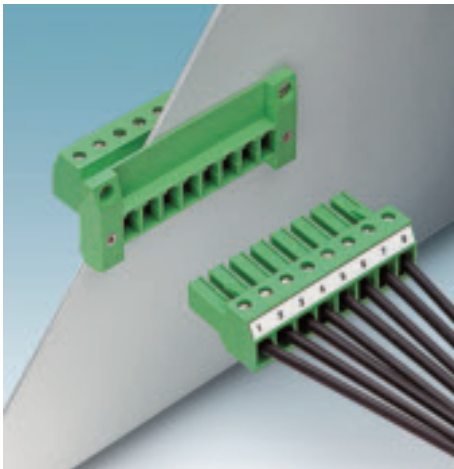
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 4 series connectors of up to 4 mm²

Feed-through headers with a male contact



- Feed-through connectors for wall thicknesses from 1 to 5 mm
- Can be plugged onto PC 4 and PC 5 plugs
- 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

Note:

The cutout dimensions can be found on page 444.

Derating curve informations:

Derating curves 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

No. of positions: see diagram

1) Please observe the derating curves and laboratory data sheets.

Derating curves of further combination options on request.

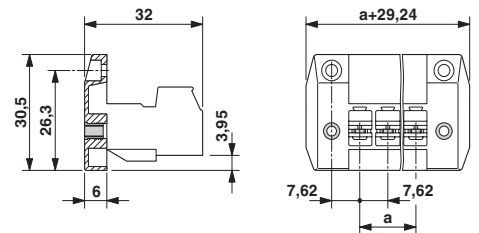


DFK-PC 4/...-GF-7,62

Feed-through headers with screw connection on the inside of the device

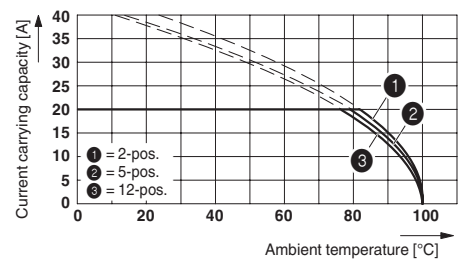


Dimensional drawing



Representative derating curve

Type: PC 4/...-ST-7,62 with DFK-PC 4/...-GF-7,62



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrules with plastic sleeve	[mm ²]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 630 1000
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 20 20 5
Connection capacity AWG	30 - 10 30 - 10 30 - 10
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 20 20 -
Connection capacity AWG	28 - 10 28 - 10 -
General data	
Stripping length	[mm] 7
Screw thread	M3
Tightening torque	[Nm] 0.5 - 0.6
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0

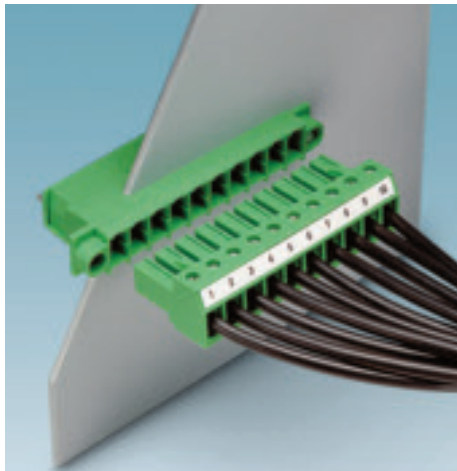
Accessories

For all types	Type	Page
	One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263	
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker card SK 7,62/3,8	489
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
DFK-PC 4/ 2-GF-7,62	1840557	50
DFK-PC 4/ 3-GF-7,62	1840560	50
DFK-PC 4/ 4-GF-7,62	1840573	50
DFK-PC 4/ 5-GF-7,62	1840586	50
DFK-PC 4/ 6-GF-7,62	1840599	50
DFK-PC 4/ 7-GF-7,62	1840609	50
DFK-PC 4/ 8-GF-7,62	1840612	50
DFK-PC 4/ 9-GF-7,62	1840625	50
DFK-PC 4/10-GF-7,62	1840638	50
DFK-PC 4/11-GF-7,62	1840641	50
DFK-PC 4/12-GF-7,62	1840654	50

Feed-through headers with a male contact



- Feed-through connectors for wall thicknesses from 1 to 5 mm
- Can be plugged onto PC 4 and PC 5 plugs
- Slip-on connection on the inside of the device (solder connection on request)
- Lateral mounting flange (screw set, refer to accessories)

Note:

The cutout dimensions can be found on page 444.

Derating curve informations:

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

No. of positions: see diagram

*) Please observe the derating curves and laboratory data sheets.

Derating curves of further combination options on request.

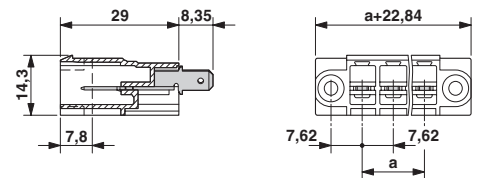


DFK-PC 4/...-G-7,62-FS4,8

Feed-through headers with slip-on connection on the inside of the device

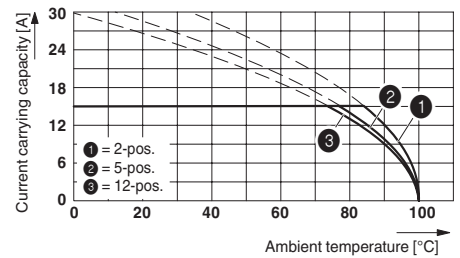


Dimensional drawing



Representative derating curve

Type: PC 4/...-ST-7,62 with DFK-PC 4/...-G-7,62-FS4,8



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²] 15 ¹⁾ / 4
Rated insulation voltage with pollution degree 2	[V] 400
Pitch	[mm] 7.62
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 400 400 800
Rated surge voltage	[kV] 6 6 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] 300 300 -
Nominal current	[A] 20 20 -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V2
Slip-on connection (DIN 46249-1)	[A] / [mm] - / 4.8 x 0.8 mm

Accessories

For all types	Type	Page
	One screw set M3 x 10 mm DFK-MSTB-SS Order No. 0708263	
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker card SK 7,62/3,8	489
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 4 series connectors up to 4 mm²

Headers up to 20 A with male contact for DIN rail mounting



- PCVK 4 and UPCV3K 4 establish the pluggable connection between the electronics and the control cabinet
- For mounting on the  rail and the 15x15 mm DIN rail in accordance with EN 60715 or – in the case of UPCV3K 4-G-7,62 – for mounting on the  rail
- Can be plugged onto PC 4 and PC 5 plug range
- Vibration-resistant connection with flange terminal blocks that can be aligned (-F)
- UPCV3K provides three connector outputs for each terminal point

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See: www.phoenixcontact.net/searchassistants

Note:

For DIN rails see CLIPLINE catalog.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZS 0,6 x 3,5 Order No. 1205053	
	Zack marker strip ZB 7,62	493

Representative derating curve

Type: PC 4/-ST-7,62 with PCVK 4-7,62

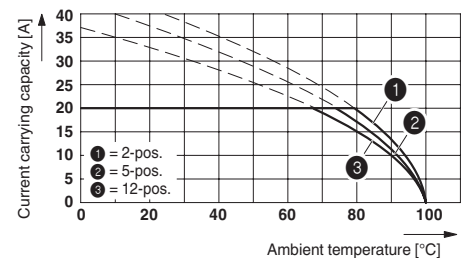
DIN EN 61984 (VDE 0627):2002-09

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 data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

PCVK 4-7,62 ...

20 ¹⁾ / 4		
630		
7.62		
0.2 - 4 / 0.2 - 4 / 24 - 12		
0.25 - 4		
0.25 - 4		
0.25 - 2.5 / 0.25 - 2.5		
0.25 - 1.5		
0.5 - 2.5		
III / 3	III / 2	II / 2
500	630	1000
6	6	6
B	C	D
300	300	600
20	20	5
30 - 10	30 - 10	30 - 10
B	C	D
300	300	-
20	20	-
28 - 10	28 - 10	-
10		
M3		
0.5 - 0.6		
PA / I		
V0		

PCVK 4-7,62-PE

- / 4		
630		
7.62		
0.2 - 4 / 0.2 - 4 / 24 - 12		
0.25 - 4		
0.25 - 4		
0.25 - 2.5 / 0.25 - 2.5		
0.25 - 1.5		
0.5 - 2.5		
III / 3	III / 2	II / 2
500	630	1000
6	6	6
B	C	D
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
10		
M3		
0.5 - 0.6		
PA / I		
V0		

UPCV3K ...

20 ¹⁾ / 4		
1000		
7.62		
0.2 - 4 / 0.2 - 4 / 24 - 10		
0.25 - 4		
0.25 - 4		
0.25 - 2.5 / 0.25 - 2.5		
0.25 - 1.5		
0.5 - 2.5		
III / 3	III / 2	II / 2
800	1000	1000
8	8	8
B	C	D
300	300	600
20	20	5
30 - 10	30 - 10	30 - 10
B	C	D
-	-	-
-	-	-
-	-	-
10		
M3		
0.5 - 0.6		
PA / I		
V0		

No. of pos.

1

1

1

1



PCVK 4-7,62 ...
Single terminal block



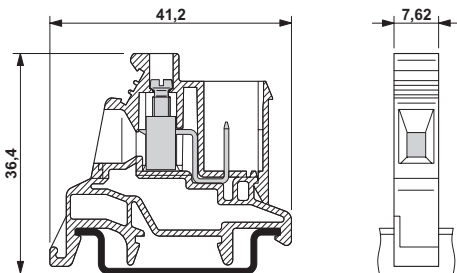
PCVK 4-7,62-PE
Single terminal block as protective conductor



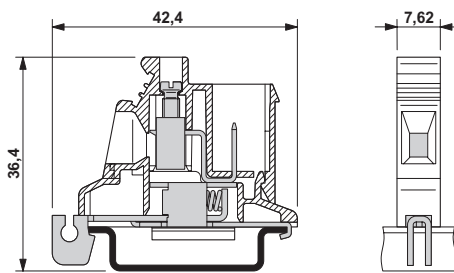
UPCV3K ...
Single terminal block with 3 plug outputs



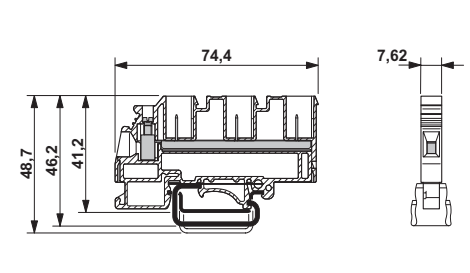
Dimensional drawing



Dimensional drawing



Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
PCVK 4-7,62	1849998	50
Flange cover, fitted on the left and right of PCVK 4-7,62 for reliable screw connection of plugs with screw flanges, pitch: 7.62 mm, color: green		
PCVK 4-7,62-F	1850000	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green-yellow		
PCVK 4-7,62-PE	1876246	50

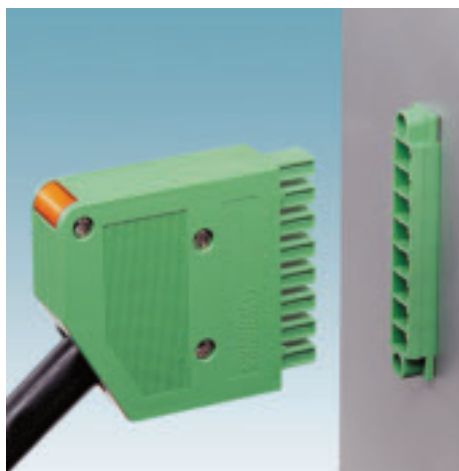
Ordering data

Type	Order No.	Pcs. / Pkt.
Terminal block, with 3 vertical COMBICON (Power) plug outputs, for mounting on  or 		
UPCV3K 4-G-7,62	1838381	50
Flange cover, fitted on the left and right of UPCV3K 4-G-7,62 for reliable screw connection with plugs with screw flanges		
UPCV3K-F	1881202	50

COMBICON power

PC 4 series connectors of up to 4 mm²

Cable housings for PC 4 plug components



- Ergonomical cable housing for the standard PC 4 plugs with a screw connection
- 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

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See: www.phoenixcontact.net/searchassistants



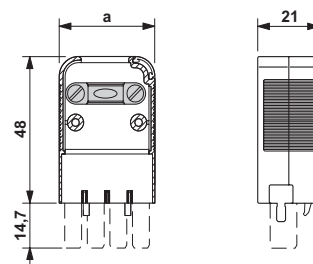
KGG-PC 4/...

3-5 positions, with straight cable connection

Accessories

For all types	Type	Page
	Transparent marker carrier KGS-MSTB 2,5/DST Order No. 1784914	
	Marker strips, unprinted, 10-section SBS 2,5/7,5 Order No. 1007604	

Dimensional drawing



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 / group of insulation material	
Inflammability class acc. to UL 94	

- / -
-
7.62
III / 3 III / 2 II / 2
B C D
- - -
- - -
- - -
B C D
- - -
- - -
- - -
ABS / 0
HB

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
KGG-PC 4/ 3	1837227	10
KGG-PC 4/ 4	1837230	10
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	



KGG-PC 4/...-F

3-15 positions, with straight cable outlet and screw flange



KGS-PC 4/...

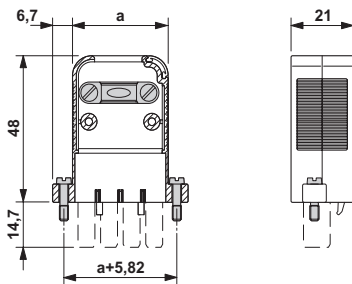
6-12 positions, with angled cable connection



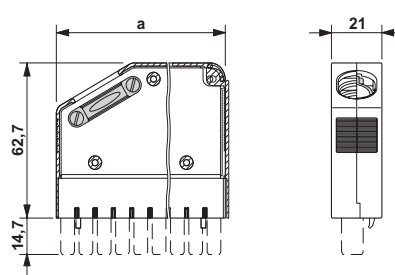
KGS-PC 4/...-F

6-12 positions, with angled cable connection and screw flange

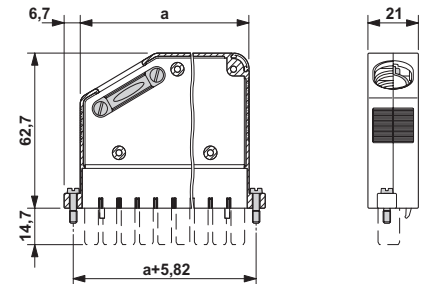
Dimensional drawing



Dimensional drawing



Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

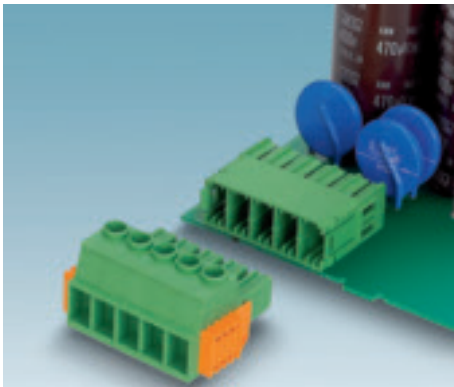
Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		

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

COMBICON power

PC 5 series connectors of up to 10 mm²

Plug components with a screw connection up to 41 A



- High-capacity plug components with a current carrying capacity of 41 A and a connection capacity of 6 mm², stranded / 10 mm² solid
- 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 the case of vibrations
- Further features: screw flange (-STF) and shield (-SH)
- CP-HCC 4 keying profile as protection against mismatching

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



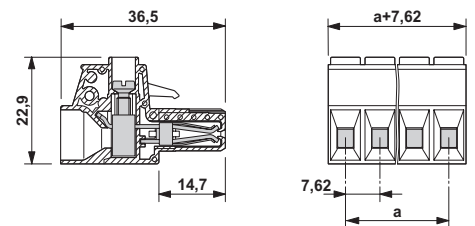
PC 5/...-ST-7,62

UL 600 V

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZK PZ 1 Order No. 1206450	
	Marker card SK 7,62/3,8	489

Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / group of insulation material	
Inflammability class acc. to UL 94	

41 ¹⁾ / 10		
1000		
7.62		
0.2 - 10 / 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		
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
B	C	D
600	600	-
41	41	-
24 - 8	24 - 8	-
B	C	D
-	-	-
-	-	-
-	-	-
10		
M3		
0.7 - 0.8		
PA / I		
V0		

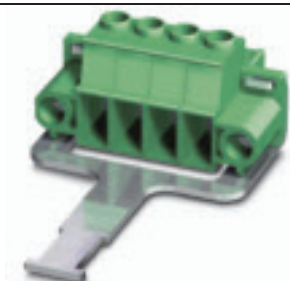
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
PC 5/ 2-ST-7,62	1975587	50
PC 5/ 3-ST-7,62	1975590	50
PC 5/ 4-ST-7,62	1975600	50
PC 5/ 5-ST-7,62	1975613	50
PC 5/ 6-ST-7,62	1975626	50
PC 5/ 7-ST-7,62	1975639	50
PC 5/ 8-ST-7,62	1975642	50
PC 5/ 9-ST-7,62	1975655	50
PC 5/10-ST-7,62	1975668	50
PC 5/11-ST-7,62	1975671	50
PC 5/12-ST-7,62	1975684	50



PC 5/...-STF-7,62

With screw flange, UL 600 V



PC 5/...-STF-SH-7,62

With screw flange and shield, UL 600 V

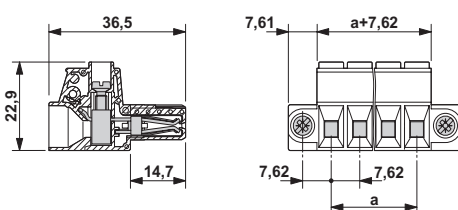


PC 5/...-STCL-7,62

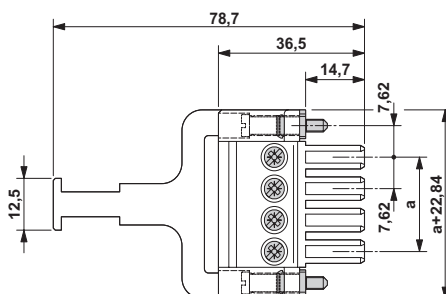
Click and lock system, compatible with PC 5 headers and STGCL plug components, UL 600 V



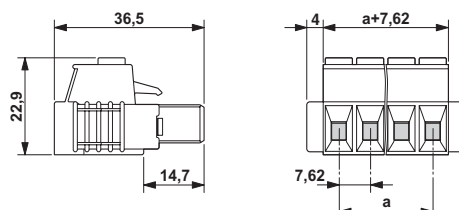
Dimensional drawing



Dimensional drawing

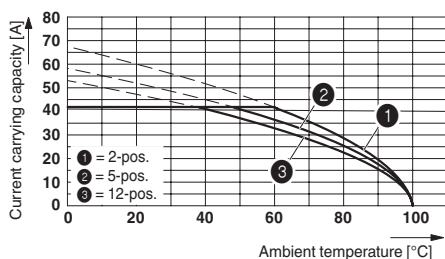


Dimensional drawing

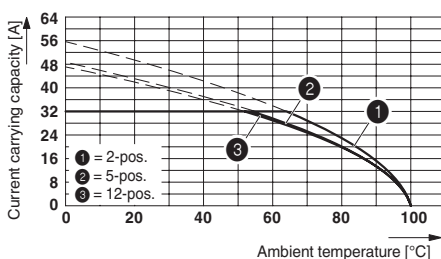


Representative derating curves of the above-mentioned plugs

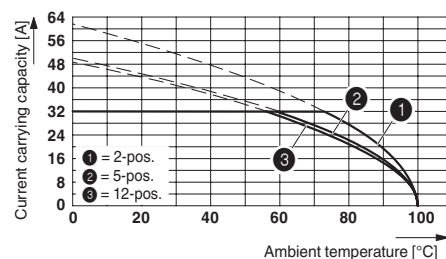
Type: PC 5/...-ST-7,62 with PC 5/...-G-7,62
Conductor cross-section: 10 mm²



Type: PC 5/...-ST-7,62 with PC 5/...-G-7,62
Conductor cross-section: 6 mm²



Type: PC 5/...-ST-7,62 with IPC 5/...-ST-7,62
Conductor cross section 6 mm²



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
PC 5/ 2-STF-7,62	1975697	50
PC 5/ 3-STF-7,62	1975707	50
PC 5/ 4-STF-7,62	1975710	50
PC 5/ 5-STF-7,62	1975732	50
PC 5/ 6-STF-7,62	1975736	50
PC 5/ 7-STF-7,62	1975749	50
PC 5/ 8-STF-7,62	1975752	50
PC 5/ 9-STF-7,62	1975765	50
PC 5/10-STF-7,62	1975778	50
PC 5/11-STF-7,62	1975781	50
PC 5/12-STF-7,62	1975794	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
PC 5/ 3-STF-SH-7,62	1737543	50
PC 5/ 4-STF-SH-7,62	1975804	50
PC 5/ 7-STF-SH-7,62	1737556	50

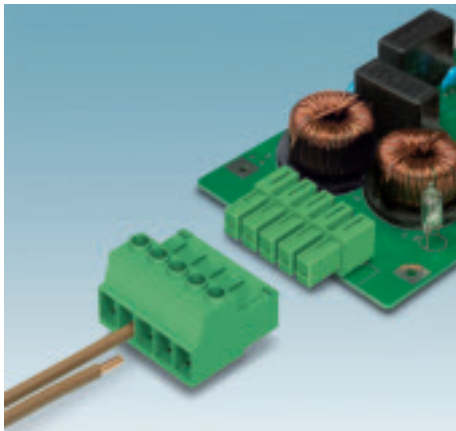
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
PC 5/ 2-STCL-7,62	1718371	50
PC 5/ 3-STCL-7,62	1718384	50
PC 5/ 4-STCL-7,62	1718397	50
PC 5/ 5-STCL-7,62	1718407	50
PC 5/ 6-STCL-7,62	1718410	50
PC 5/ 7-STCL-7,62	1718423	50
PC 5/ 8-STCL-7,62	1718436	50
PC 5/ 9-STCL-7,62	1718449	50
PC 5/10-STCL-7,62	1718452	50
PC 5/11-STCL-7,62	1718465	50
PC 5/12-STCL-7,62	1718478	50

COMBICON power

PC 5 series connectors up to 10 mm²

Inverted plug components up to 41 A with a male contact



- Inverted IPC 5 plug components with male contacts for touch-proof device outputs (with IPC 5 G) or free hanging cable-cable connections
- Unrestricted 600 V UL approval
- Can be plugged onto PC 5 plug components 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 the case of vibrations
- STGF plug components with a threaded flange

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



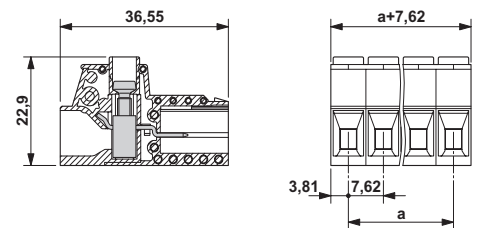
IPC 5/...-ST-7,62

Inverted with male contact, UL 600 V

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZK PZ 1 Order No. 1206450	
	Marker card SK 7,62/3,8	489

Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]
Rated insulation voltage with pollution degree 2 [V]

Pitch [mm]

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG

Stranded with ferrules without plastic sleeve [mm²]

Stranded with ferrules with plastic sleeve [mm²]

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

41¹⁾ / 10

1000

7.62

0.2 - 10 / 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

III / 3 III / 2 II / 2

1000 1000 1000

8 8 6

B C D

600 600 -

41 41 -

24 - 8 24 - 8 -

B C D

- - -

- - -

- - -

10

M3

0.7 - 0.8

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

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
IPC 5/2-ST-7,62	1709047	50
IPC 5/3-ST-7,62	1709050	50
IPC 5/4-ST-7,62	1709063	50
IPC 5/5-ST-7,62	1709076	50
IPC 5/6-ST-7,62	1709089	50
IPC 5/7-ST-7,62	1709092	50
IPC 5/8-ST-7,62	1709102	50
IPC 5/9-ST-7,62	1709115	50
IPC 5/10-ST-7,62	1709128	50
IPC 5/11-ST-7,62	1709131	50
IPC 5/12-ST-7,62	1709144	50



IPC 5/...-STF-7,62

Inverted with male contact and screw flange, UL 600 V



IPC 5/...-STGF-7,62

Inverted with male contact and threaded flange, UL 600 V

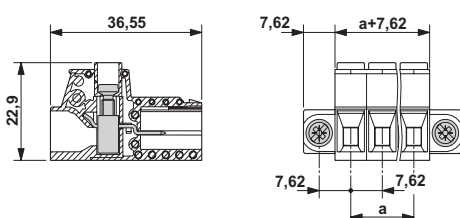


IPC 5/...-STGCL-7,62

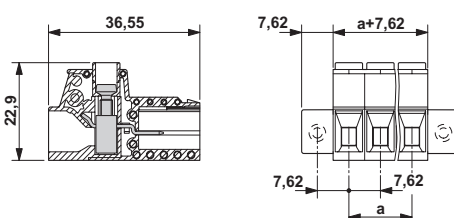
Inverted with male contact, click and lock system, compatible with STCL plug components, UL 600 V



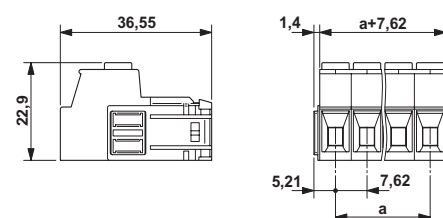
Dimensional drawing



Dimensional drawing

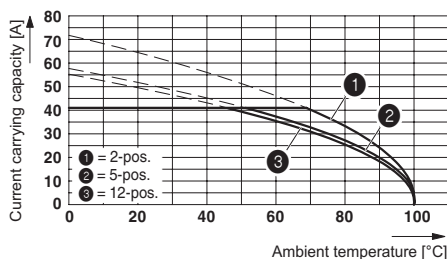


Dimensional drawing

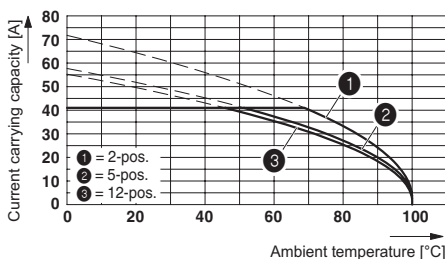


Representative derating curves of the above-mentioned plugs

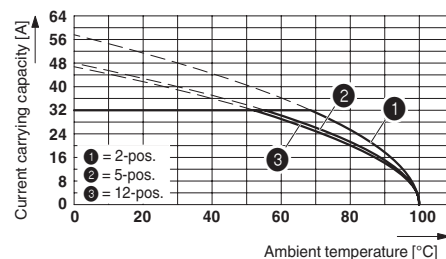
Type: IPC 5/...-ST-7,62 with PC 5/...-ST-7,62
Conductor cross section = 10 mm²



Type: IPC 5/...-ST-7,62 with IPC 5/...-G-7,62
Conductor cross section = 10 mm²



Type: IPC 5/...-ST-7,62 with IPC 5/...-G-7,62
Conductor cross section 6 mm²



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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 data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

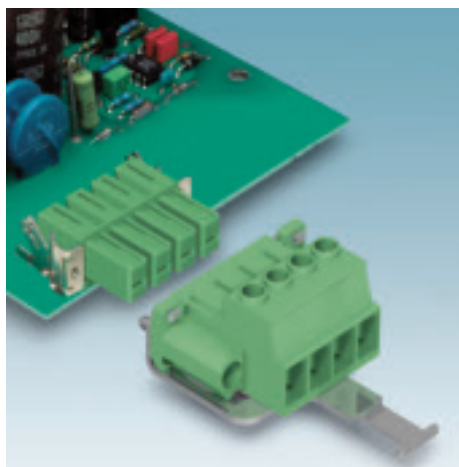
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 5 series connectors of up to 10 mm²

Inverted plug components up to 41 A with a male 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 onto PC 5 plug components or inverted PC 5 headers
- Increased protection against vibration in cable-cable connections using screw-on STGF plug components

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



IPC 5/...STF-SH-7,62

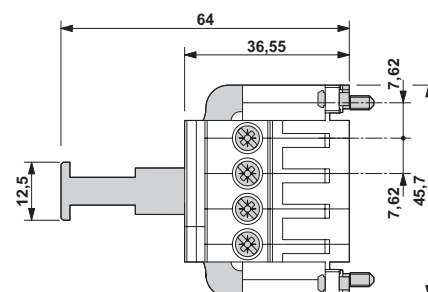
Inverted with male contact, screw flange and shield, UL 600 V



Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZK PZ 1 Order No. 1206450	
	Marker card SK 7,62/3,8	489

Dimensional drawing



Derating curve informations

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

Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / group of insulation material	
Inflammability class acc. to UL 94	

41¹⁾ / 10

1000

7.62

0.2 - 10 / 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

III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
B	C	D
600	600	-
41	41	-
24 - 8	24 - 8	-
B	C	D
-	-	-
-	-	-
-	-	-

10

M3

0.7 - 0.8

PA / I

V0

No. of pos.	Dim. a [mm]
4	22.86

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
IPC 5/4-STF-SH-7,62	1709380	50

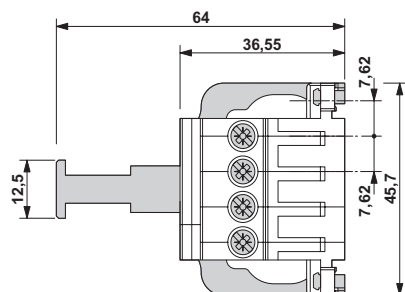


IPC 5/...-STGF-SH-7,62

Inverted with male contact,
threaded flange and shield, UL 600 V

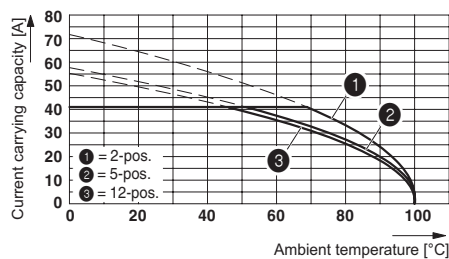


Dimensional drawing



Representative derating curve

Type: IPC 5/...-ST-7,62 with PC 5/...-ST-7,62
Conductor cross section = 10 mm²



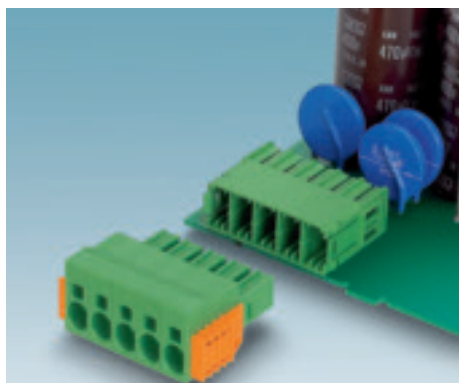
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
IPC 5/4-STGF-SH-7,62	1709377	50

COMBICON power

PC 5 series connectors of up to 10 mm²

Plug components with a push-in spring-cage connection up to 41 A



- Push-in spring-cage connector with a current carrying capacity of 41 A
- Fast connection method 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 the case of vibrations
- The SH versions provide a professional shield and an optional strain relief
- CP-HCC 4 keying profile

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

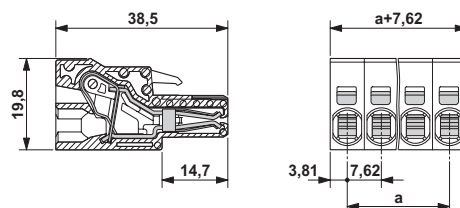


SPC 5/...-ST-7,62

Push-in spring-cage connection, UL 600 V



Dimensional drawing



Derating curve informations

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

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker card SK 7,62/3,8	489
	Ferrules with and without plastic sleeve	502
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²] 41¹⁾ / 10

Rated insulation voltage with pollution degree 2 [V] 1000

Pitch [mm] 7.62

Connection capacity

Solid / stranded [mm²] / [mm²] / AWG 0.2 - 10 / 0.2 - 6 / 24 - 8

Stranded with ferrules without plastic sleeve [mm²] 0.25 - 6

Stranded with ferrules with plastic sleeve [mm²] 0.25 - 4

Multi-conductor connection capacity (2 cond. with the same cross section)

Solid / stranded [mm²] - / -

Stranded with ferrules without plastic sleeve [mm²] -

Stranded with TWIN ferrules with plastic sleeve [mm²] 0.25 - 1.5

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 B C D

Nominal voltage [V] 600 600 -

Nominal current [A] 35 35 -

Connection capacity AWG 24 - 8 24 - 8 -

Approval data (CSA) Use Group B C D

Nominal voltage [V] - - -

Nominal current [A] - - -

Connection capacity AWG - - -

General data

Stripping length [mm] 15

Type of insulation material / group of insulation material PA / I

Inflammability class acc. to UL 94 V0

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
SPC 5/ 2-ST-7,62	1996016	50
SPC 5/ 3-ST-7,62	1996029	50
SPC 5/ 4-ST-7,62	1996032	50
SPC 5/ 5-ST-7,62	1996045	50
SPC 5/ 6-ST-7,62	1996058	50
SPC 5/ 7-ST-7,62	1996061	50
SPC 5/ 8-ST-7,62	1996074	50
SPC 5/ 9-ST-7,62	1996087	50
SPC 5/10-ST-7,62	1996090	50
SPC 5/11-ST-7,62	1996100	50
SPC 5/12-ST-7,62	1996113	50



SPC 5/...-STF-7,62

Push-in spring-cage connection with screw flange, UL 600 V



SPC 5/...-STF-SH-7,62

Push-in spring-cage connection with screw flange and shield, UL 600 V

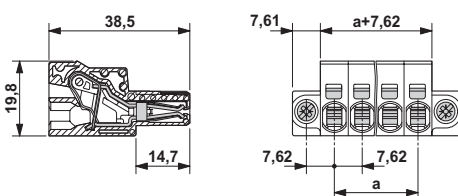


SPC 5/...-STCL-7,62

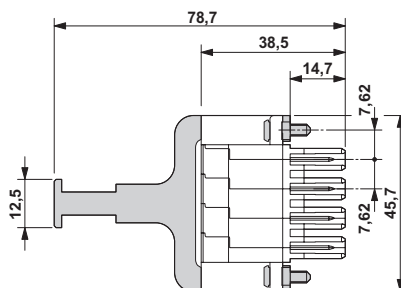
Push-in spring-cage connection, click and lock system, compatible with PC 5 headers and STGCL plug components, UL 600 V



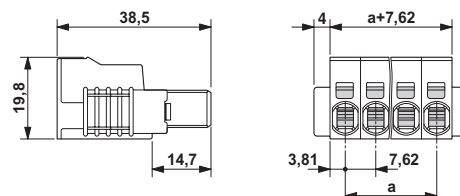
Dimensional drawing



Dimensional drawing

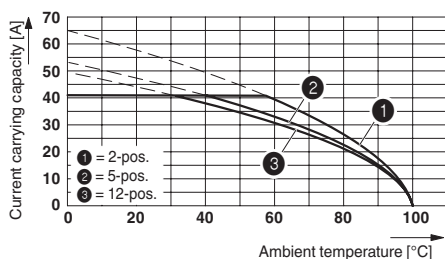


Dimensional drawing

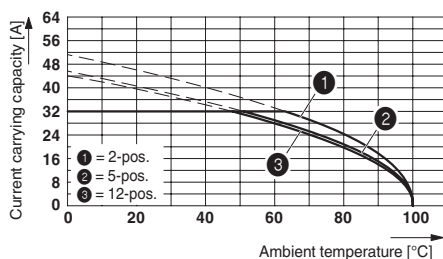


Representative derating curves of the above-mentioned plugs

Type: SPC 5/...-ST-7,62 with PC 5/...-G-7,62



Type: SPC 5/...-ST-7,62 with PC 5/...-G-7,62
Conductor cross-section: 6 mm²



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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 data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
SPC 5/ 4-STF-SH-7,62	1704071	50

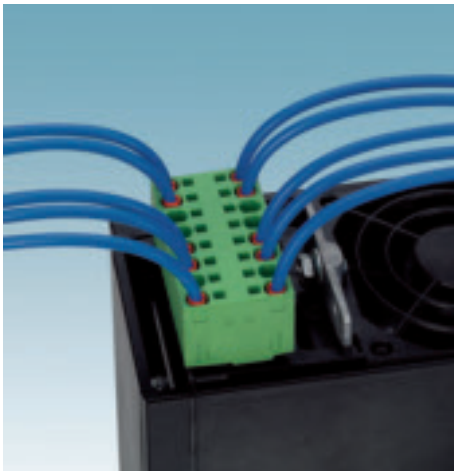
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 5 series connectors of up to 10 mm²

TWIN plug components with a push-in spring-cage connection up to 41 A



- Push-in spring-cage connector with a double connection
- Simple potential distribution through two terminal points per contact
- Fast connection method 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 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)
- CP-HCC 4 keying profile

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



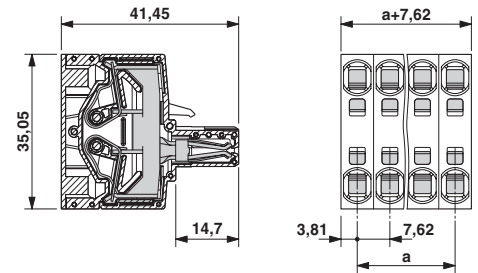
TSPC 5/...-ST-7,62

Double connection, push-in spring-cage connection, UL 600 V

Accessories

For all types	Type	Page
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker card SK 7,62/3,8	489
	Ferrules with and without plastic sleeve	502
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Dimensional drawing



Derating curve informations

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

Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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 / group of insulation material	
Inflammability class acc. to UL 94	

41 ¹⁾ / 10		
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
B	C	D
600	600	-
31	31	-
24 - 8	24 - 8	-
B	C	D
-	-	-
-	-	-
-	-	-
15		
PA / I		
V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		7.62 mm pitch		
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	50
7	45.72	TSPC 5/ 7-ST-7,62	1728507	50
8	53.34	TSPC 5/ 8-ST-7,62	1728510	50
9	60.96	TSPC 5/ 9-ST-7,62	1728523	50
10	68.58	TSPC 5/10-ST-7,62	1728536	50
11	76.20	TSPC 5/11-ST-7,62	1728549	50
12	83.82	TSPC 5/12-ST-7,62	1728552	50



TSPC 5/...-STF-7,62

Double connection, push-in spring-cage connection with screw flange, UL 600 V

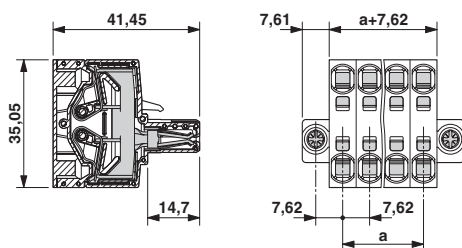


TSPC 5/...-STCL-7,62

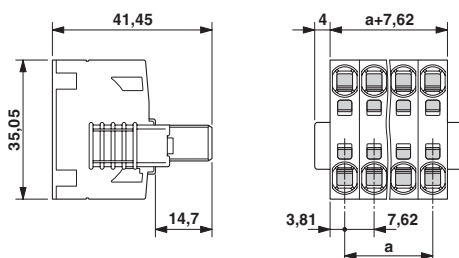
Compatible with PC 5 headers and STGCL plug components, UL 600 V



Dimensional drawing

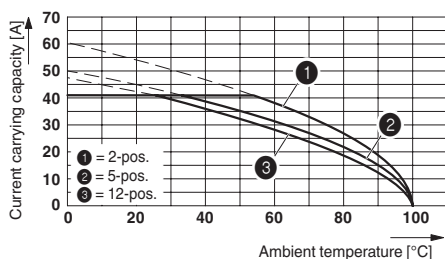


Dimensional drawing



Representative derating curve

Type: TSPC 5/...-ST-7,62 with PC 5/...-G-7,62



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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	50
TSPC 5/ 7-STF-7,62	1728251	50
TSPC 5/ 8-STF-7,62	1728264	50
TSPC 5/ 9-STF-7,62	1728277	50
TSPC 5/10-STF-7,62	1728280	50
TSPC 5/11-STF-7,62	1728293	50
TSPC 5/12-STF-7,62	1728303	50

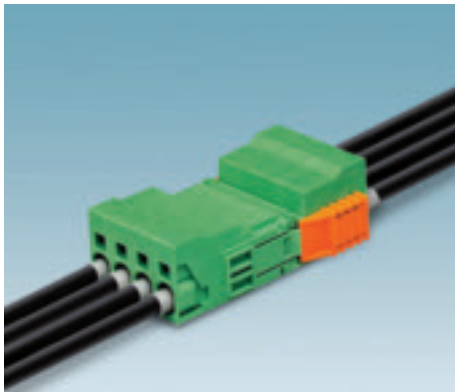
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
TSPC 5/ 2-STCL-7,62	1765418	50
TSPC 5/ 3-STCL-7,62	1765421	50
TSPC 5/ 4-STCL-7,62	1765434	50
TSPC 5/ 5-STCL-7,62	1765447	50
TSPC 5/ 6-STCL-7,62	1765450	50
TSPC 5/ 7-STCL-7,62	1765463	50
TSPC 5/ 8-STCL-7,62	1765476	50
TSPC 5/ 9-STCL-7,62	1765489	50
TSPC 5/10-STCL-7,62	1765492	50
TSPC 5/11-STCL-7,62	1765502	50
TSPC 5/12-STCL-7,62	1765515	50

COMBICON power

PC 5 series connectors of up to 10 mm²

Inverted push-in spring-cage plug components up to 41 A with male contact



- Inverted push-in spring-cage connectors ISPC 5 plug components with male contacts for touch-proof device outputs (with IPC 5 G) or free hanging cable-cable connections
- Unrestricted 600 V UL approval
- Pin compatibility with (S)PC 5 plug components or inverted IPC 5 headers
- Increased vibration protection due to screw-on STF plug components with screw flange
- STGF plug components with a threaded flange

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) UL/CUL on request.



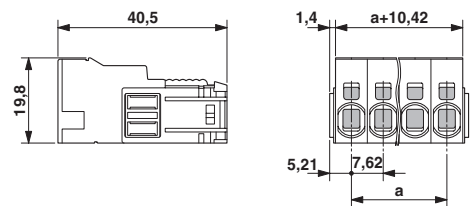
ISPC 5/...-STGCL-7,62

Inverted with male contact, click and lock system, compatible with STCL plug components, UL 600 V

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZF 1-0,6 x 3,5 Order No. 1204517	
	Marker card SK 7,62/3,8	489
	Ferrules with and without plastic sleeve	502
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	

Dimensional drawing



Derating curve informations

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

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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 / group of insulation material	
Inflammability class acc. to UL 94	

41 ¹⁾ / 10		
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
B	C	D
-	2)	-
-	2)	-
-	-	-
B	C	D
-	-	-
-	-	-
-	-	-
15		
PA / I		
V0		

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
ISPC 5/ 2-STGCL-7,62	1748862	50
ISPC 5/ 3-STGCL-7,62	1748875	50
ISPC 5/ 4-STGCL-7,62	1748888	50
ISPC 5/ 5-STGCL-7,62	1748891	50
ISPC 5/ 6-STGCL-7,62	1748901	50
ISPC 5/ 7-STGCL-7,62	1748914	50
ISPC 5/ 8-STGCL-7,62	1748927	50
ISPC 5/ 9-STGCL-7,62	1748930	50
ISPC 5/10-STGCL-7,62	1748943	50
ISPC 5/11-STGCL-7,62	1748956	50
ISPC 5/12-STGCL-7,62	1748969	50



ISPC 5/...-STF-7,62

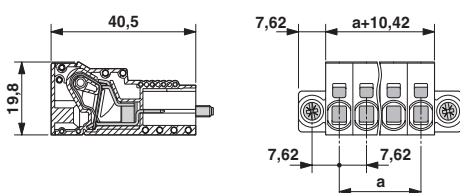
Inverted with male contact and screw flange, UL 600 V



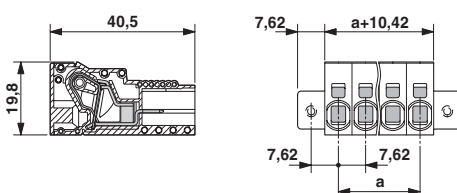
ISPC 5/...-STGF-7,62

Inverted with male contact and threaded flange, UL 600 V

Dimensional drawing

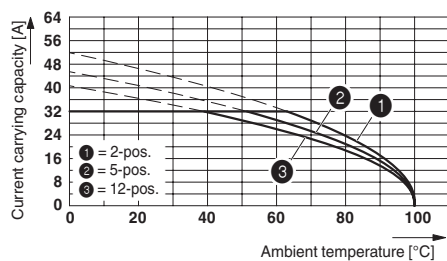


Dimensional drawing

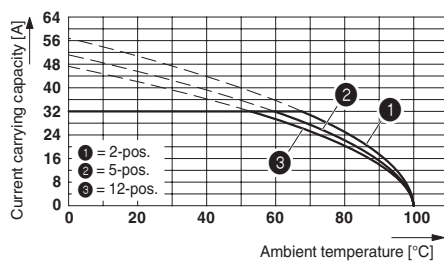


Representative derating curves of the above-mentioned plugs

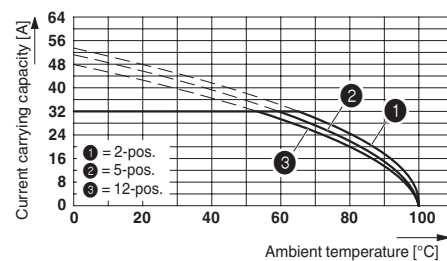
Type: ISPC 5/...-STGCL-7,62 with IPC 5/...-G-7,62



Type: ISPC 5/...-STGCL-7,62 with IPCV 5/...-G-7,62



Type: ISPC 5/...-STGCL-7,62 with SPC 5/...-ST-7,62



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

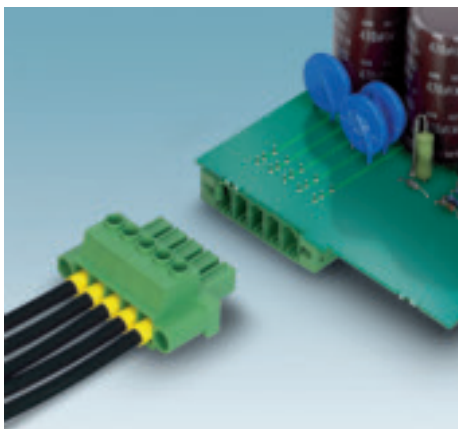
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 5 series connectors of up to 10 mm²

Headers up to 41 A with a male contact



- PC 5 headers for combination with PC 5 plug components
- If the GU headers are used, the plug component 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 system
- Shroud PCB-SHIELD for a professional EMC shield connection
- CP-HCC 4 keying profile as protection against mismatching

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

Note:

Mounting screws for PC 5/...-GF-7,62 and PC 5/...-GFU-7,62: Sheet metal screw ISO 1481-ST 2.9. A screw connection is only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



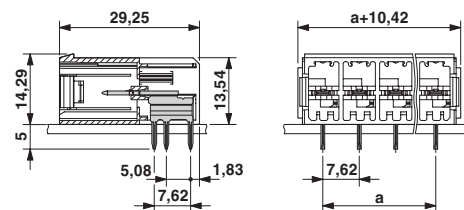
PC 5/...-G-7,62

Horizontal, compatible with STCL plug components

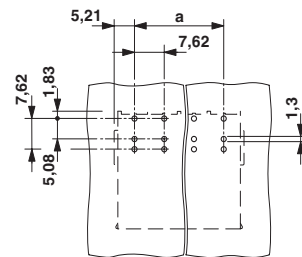
Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker card SK 7,62/3,8	489
Only for PC 5/...-G-7,62 and PC 5/...-GU-7,62		
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	313

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter / pin dimensions [mm]

41¹⁾ / -

630

7.62

III / 3 III / 2 II / 2

500 630 800

6 6 6

B C D

300 150 300

41 41 10

- - -

B C D

- - -

- - -

- - -

PA / I

V0

1.3 / 0.8 x 1.0

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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



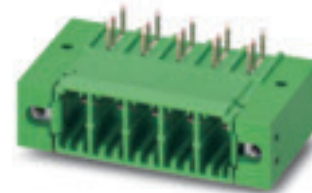
PC 5/...-GF-7,62

Horizontal, with threaded flange



PC 5/...-GU-7,62

Horizontal, rotated by 180°, compatible with STCL plug components

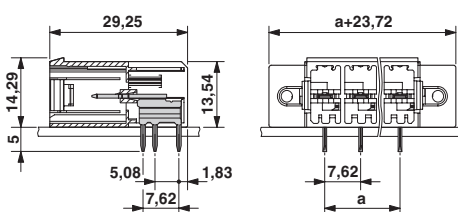


PC 5/...-GFU-7,62

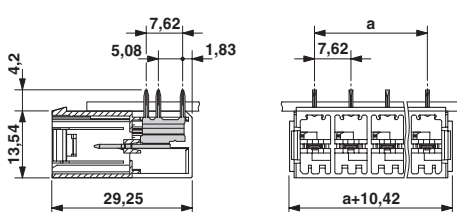
Horizontal, rotated 180°, with threaded flange



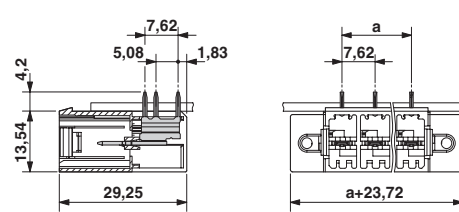
Dimensional drawing



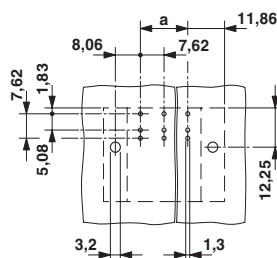
Dimensional drawing



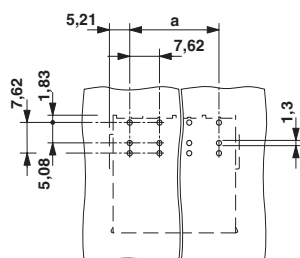
Dimensional drawing



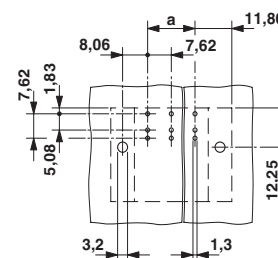
Drilling diagram



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

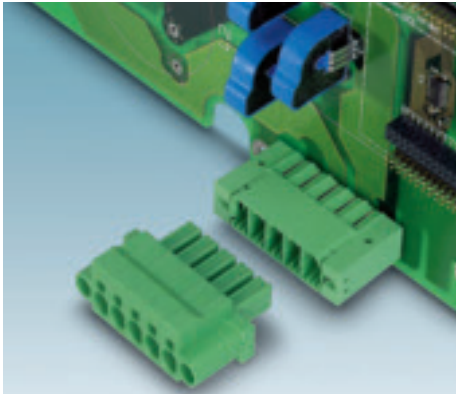
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 5 series connectors up to 10 mm²

Vertical headers up to 41 A with a male contact



- Vertical PC 5 header for combination with PC 5 plug components
- Available with 2 to 12 positions
- Vibration-resistant connection with a threaded flange (-GF; also for screw connection in the device)
- Compatible with the Click and Lock system
- Asymmetrical layout of solder pins to avoid incorrect plugging-in

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

Mounting screw for PCV 5/...-GF-7,62: Sheet metal screw ISO 1481-ST 2,9 C. A screw connection is only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



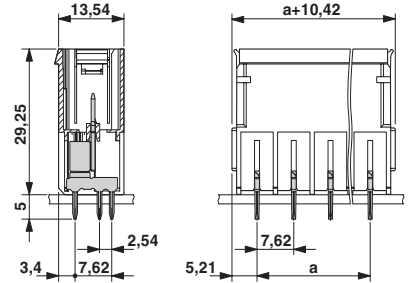
PCV 5/...-G-7,62

Vertical, compatible with STCL plug components

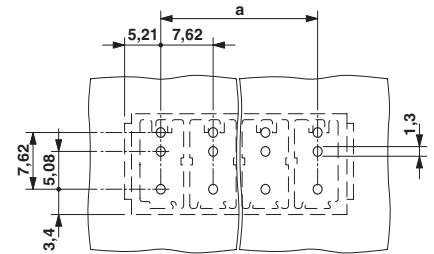
Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker card SK 7,62/3,8	489

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

41 ¹⁾ / -		
630		
7.62		
III / 3	III / 2	II / 2
500	630	800
6	6	6
B	C	D
300	150	300
41	41	10
-	-	-
B	C	D
-	-	-
-	-	-
-	-	-
PA / I		
V0		
1.3 / 0.8 x 1.0		

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

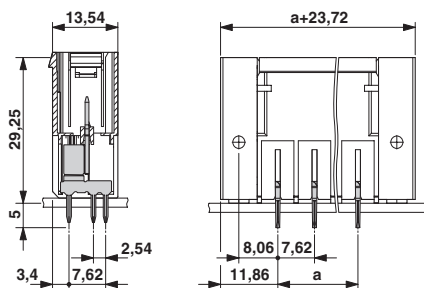


PCV 5/ ...-GF-7,62

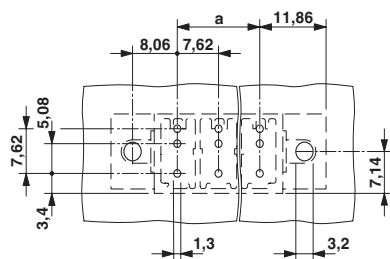
Vertical, with threaded flange



Dimensional drawing



Drilling diagram



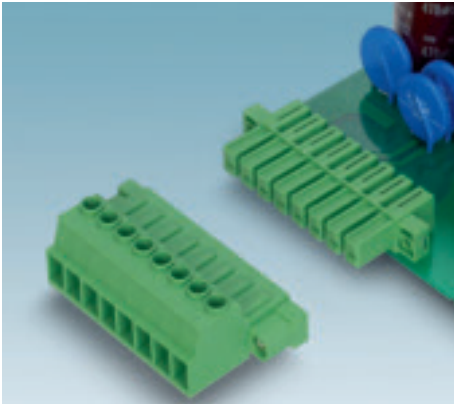
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 5 series connectors up to 10 mm²

Inverted headers up to 41 A with a female contact



- Inverted IPC 5 headers 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

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



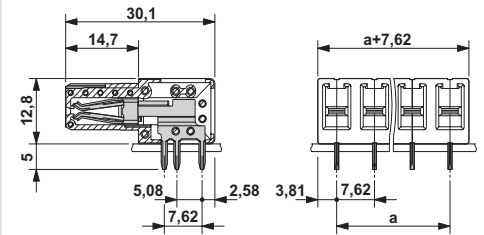
IPC 5/...-G-7,62

Horizontal, inverted with female contact

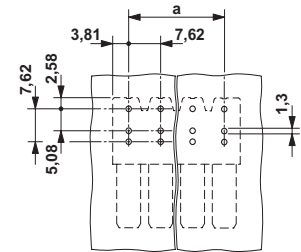
Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker card SK 7,62/3,8	489
Only for IPC 5/...-G-7,62 and IPC 5/...-GU-7,62		
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	313

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
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
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 / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	[mm]

41 ¹⁾ / -
630
7.62
III / 3 III / 2 II / 2
630 630 1000
6 6 6
B C D
300 300 600
41 41 5
- - -
B C 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

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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



IPC 5/...-GF-7,62

Horizontal, inverted with female contact and threaded flange



IPC 5/...-GU-7,62

Horizontal, rotated 180°, inverted with female contact

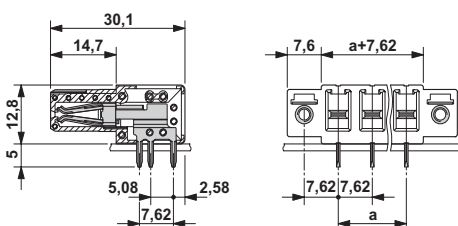


IPC 5/...-GFU-7,62

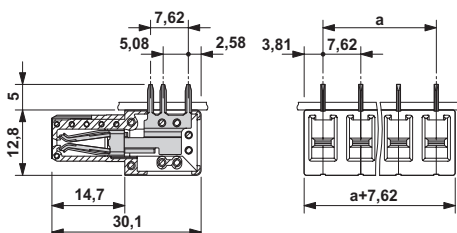
Horizontal, rotated 180°, inverted with female contact and threaded flange



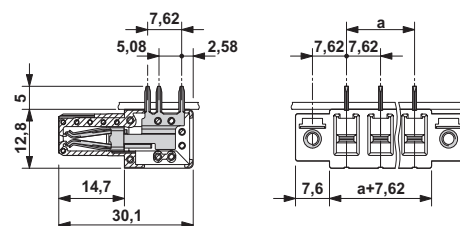
Dimensional drawing



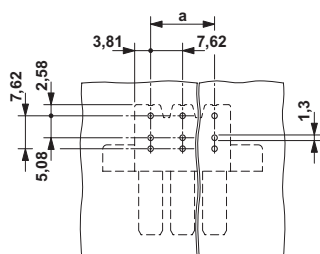
Dimensional drawing



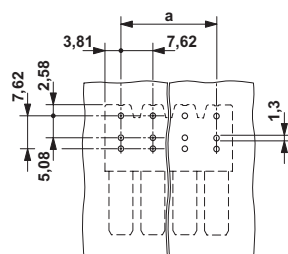
Dimensional drawing



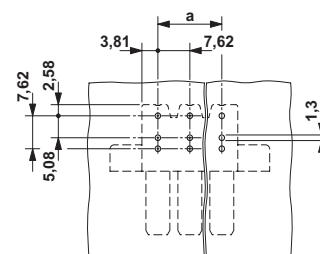
Drilling diagram



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
IPC 5/ 2-GF-7,62	1708491	50
IPC 5/ 3-GF-7,62	1708501	50
IPC 5/ 4-GF-7,62	1708514	50
IPC 5/ 5-GF-7,62	1708527	50
IPC 5/ 6-GF-7,62	1708530	50
IPC 5/ 7-GF-7,62	1708543	50
IPC 5/ 8-GF-7,62	1708556	50
IPC 5/ 9-GF-7,62	1708569	50
IPC 5/10-GF-7,62	1708572	50
IPC 5/11-GF-7,62	1708585	50
IPC 5/12-GF-7,62	1708598	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

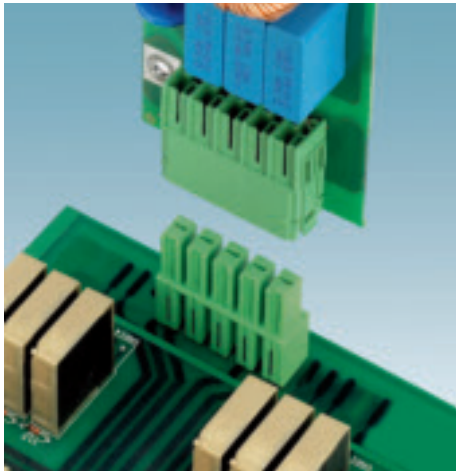
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 5 series connectors of up to 10 mm²

Inverted and vertical headers up to 41 A with a female contact



- Inverted IPC 5 headers 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

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



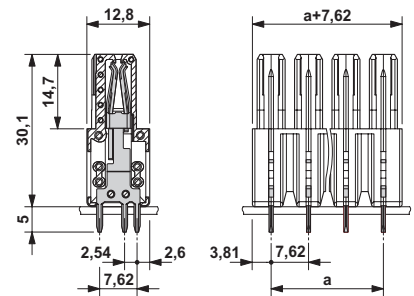
IPCV 5/...-G-7,62

Vertical, inverted with female contact

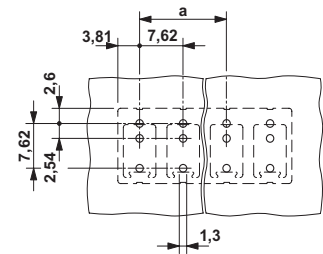
Accessories		
For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker card SK 7,62/3,8	489



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
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
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 / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	[mm]
	1.3 / 1.2 x 0.8

41 ¹⁾ / -
630
7.62
III / 3 III / 2 II / 2
630 630 1000
6 6 6
B C D
300 300 600
41 41 5
- - -
B C D
- - -
- - -
PA / I
V0
1.3 / 1.2 x 0.8

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

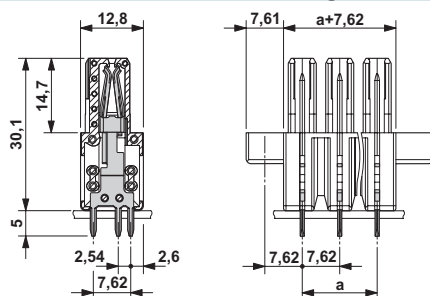


IPCV 5/...-GF-7,62

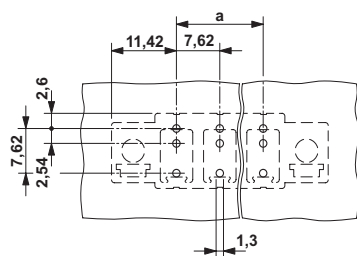
Vertical, inverted with female contact and threaded flange



Dimensional drawing



Drilling diagram



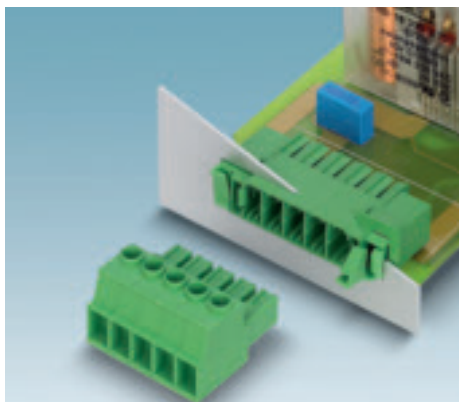
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 5 series connectors of up to 10 mm²

Feed-through headers up to 41 A with a male contact



- Feed-through headers for combination with all PC 5 plug components
- For soldering onto the PCB
- Mounting on the housing wall using the snap-lock mechanism operated without tools or using the classic screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be implemented on the housing wall
- If the GU headers are used, the plug component is rotated by 180° before fitting.

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

The cutout dimensions can be found on page 444.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) UL/CUL on request.



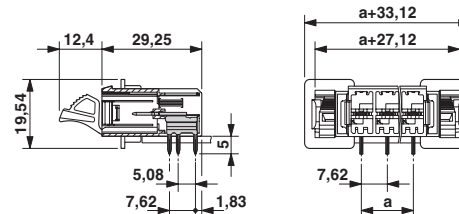
DFK-PC 5/...-G-7,62

Solder connection on the inside of the device, compatible with STCL plug components

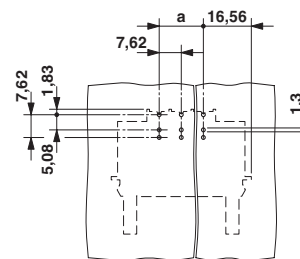
Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker card SK 7,62/3,8	489

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter / pin dimensions [mm]

41¹⁾ / -

630

7.62

III / 3 III / 2 II / 2

500 630 800

6 6 6

B C D

- 2) -

- 2) -

- - -

B C D

- - -

- - -

- - -

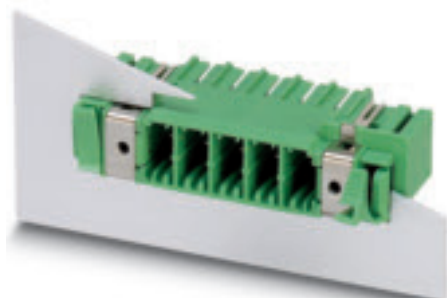
PA / I

V0

1.3 / 0.8 x 1.0

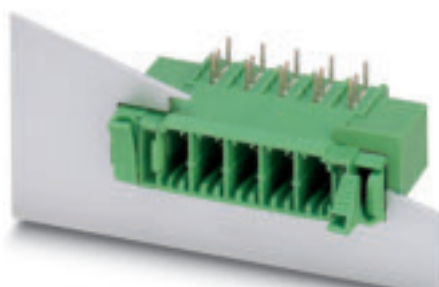
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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



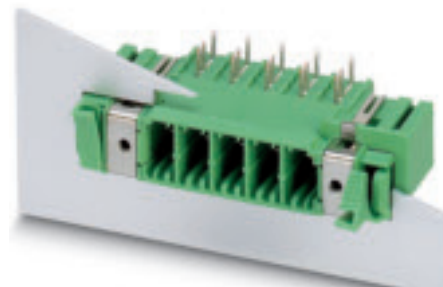
DFK-PC 5/...-GF-7,62

Solder connection on the inside of the device, threaded flange, shield connection on the front of the device



DFK-PC 5/...-GU-7,62

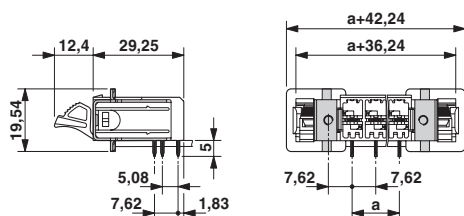
Solder connection on the inside of the device, rotated 180°, compatible with STCL plug components



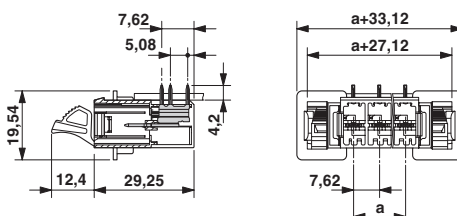
DFK-PC 5/...-GFU-7,62

Solder connection on the inside of the device, rotated 180°, threaded flange, shield connection on the front of the device

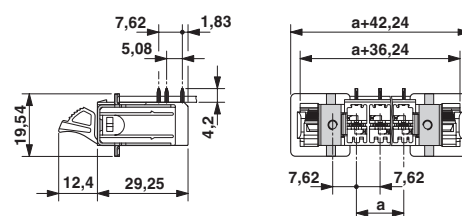
Dimensional drawing



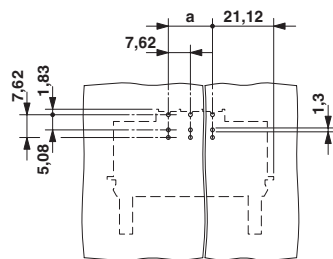
Dimensional drawing



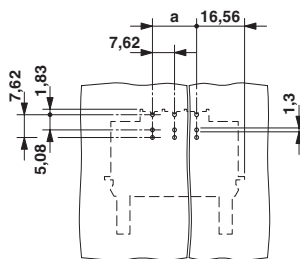
Dimensional drawing



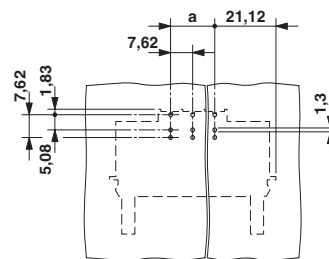
Drilling diagram



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

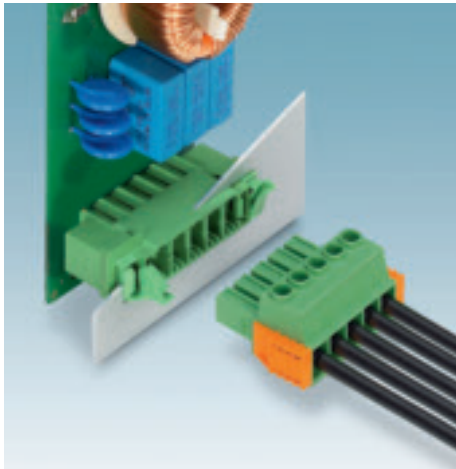
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 5 series connectors of up to 10 mm²

Feed-through headers up to 41 A with a male contact



- Feed-through headers for combination with all PC 5 plug components
- For soldering onto the PCB
- In SH versions, shielding functions can be implemented on the inside of the device as well
- Mounting on the housing wall using the snap-lock mechanism operated without tools or using the classic screw connection
- Wall thicknesses from 1 mm to 3 mm

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

The cutout dimensions can be found on page 444.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) UL/CUL on request.



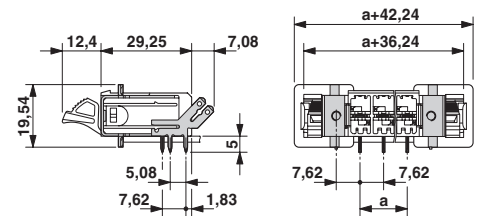
DFK-PC 5/ ...-GF-SH-7,62

Solder connection on the inside of the device, threaded flange, shield feed-through on the inside of the device

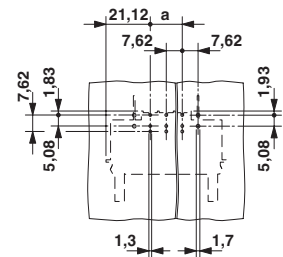
Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker card SK 7,62/3,8	489

Dimensional drawing



Drilling diagram



Technical data

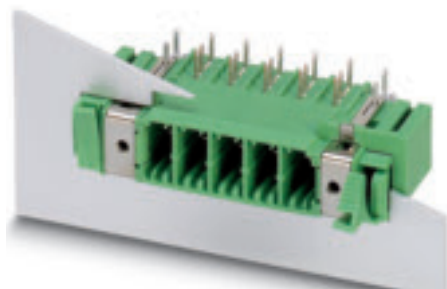
Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
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 / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	[mm]

41 ¹⁾ / -
630
7.62
III / 3 III / 2 II / 2
500 630 800
6 6 6
B C D
- 2) -
- 2) -
- - -
- - -
- - -
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

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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



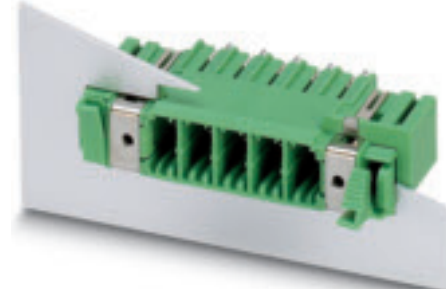
DFK-PC 5/...-GFU-SH-7,62

Solder connection on the inside of the device, rotated 180°, threaded flange, shield feed-through on the inside of the device



DFK-PCV 5/...-G-7,62

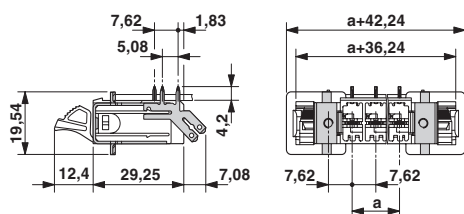
Solder connection on the inside of the device, vertical, compatible with STCL plug components



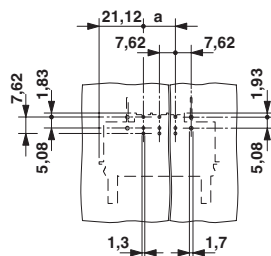
DFK-PCV 5/...-GF-7,62

Solder connection on the inside of the device, vertical, threaded flange, shield feed-through on the front of the device

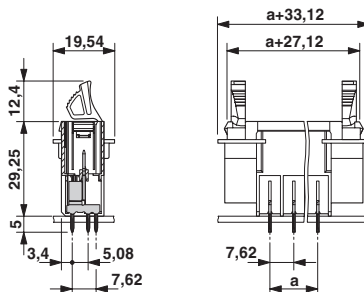
Dimensional drawing



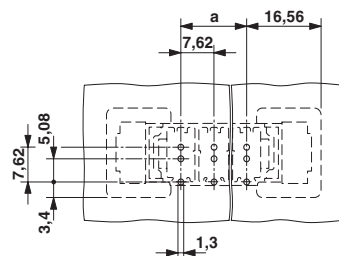
Drilling diagram



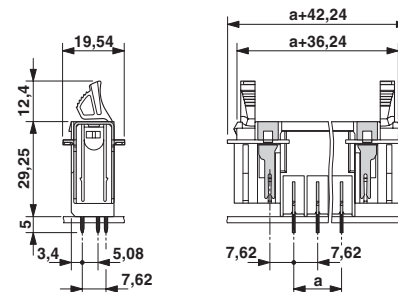
Dimensional drawing



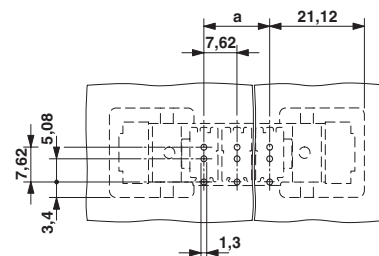
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
DFK-PCV 5/ 2-G-7,62	1716289	50
DFK-PCV 5/ 3-G-7,62	1716292	50
DFK-PCV 5/ 4-G-7,62	1716302	50
DFK-PCV 5/ 5-G-7,62	1716315	50
DFK-PCV 5/ 6-G-7,62	1716328	50
DFK-PCV 5/ 7-G-7,62	1716331	50
DFK-PCV 5/ 8-G-7,62	1716344	50
DFK-PCV 5/ 9-G-7,62	1716357	50
DFK-PCV 5/10-G-7,62	1716360	50
DFK-PCV 5/11-G-7,62	1716373	50
DFK-PCV 5/12-G-7,62	1716386	50

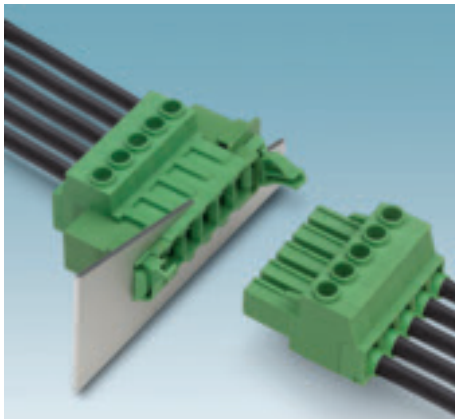
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, color: green		
DFK-PCV 5/ 2-GF-7,62	1716399	50
DFK-PCV 5/ 3-GF-7,62	1716409	50
DFK-PCV 5/ 4-GF-7,62	1716412	50
DFK-PCV 5/ 5-GF-7,62	1716425	50
DFK-PCV 5/ 6-GF-7,62	1716438	50
DFK-PCV 5/ 7-GF-7,62	1716441	50
DFK-PCV 5/ 8-GF-7,62	1716454	50
DFK-PCV 5/ 9-GF-7,62	1716467	50
DFK-PCV 5/10-GF-7,62	1716470	50
DFK-PCV 5/11-GF-7,62	1716483	50
DFK-PCV 5/12-GF-7,62	1716496	50

COMBICON power

PC 5 series connectors of up to 10 mm²

Feed-through headers up to 41 A with a male contact



- Feed-through headers for combination with all PC 5 plug components
- Screw connection for direct wiring on the inside of the device
- Mounting on the housing wall using the snap-lock mechanism operated without tools or using the classic screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be implemented on the inside of the device as well

Note:

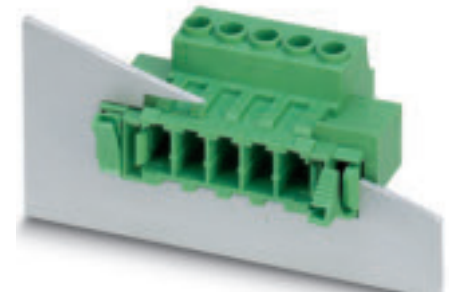
In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

The cutout dimensions can be found on page 444.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) UL/CUL on request.



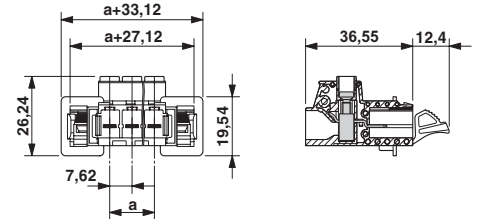
DFK-PC 5/ ...-ST-7,62

Screw connection on the inside of the device, compatible with STCL plug components, UL 600 V

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker card SK 7,62/3,8	489
	Screwdriver SZK PZ 1 Order No. 1206450	

Dimensional drawing



Derating curve informations

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

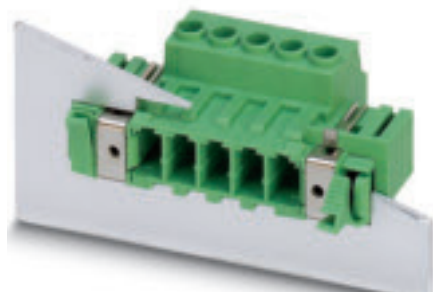
No. of positions: see diagram

Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²] 41 ¹⁾ / 10
Rated insulation voltage with pollution degree 2	[V] 1000
Pitch	[mm] 7.62
Connection capacity	
Solid / stranded	[mm ²] / [mm ²] / AWG 0.2 - 10 / 0.2 - 6 / 24 - 10
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 6
Stranded with ferrules with plastic sleeve	[mm ²] 0.25 - 4
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid / stranded	[mm ²] 0.2 - 2.5 / 0.2 - 4
Stranded with ferrules without plastic sleeve	[mm ²] 0.25 - 1.5
Stranded with TWIN ferrules with plastic sleeve	[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 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] - 2) -
Nominal current	[A] - 2) -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 10
Screw thread	M3
Tightening torque	[Nm] 0.7 - 0.8
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0

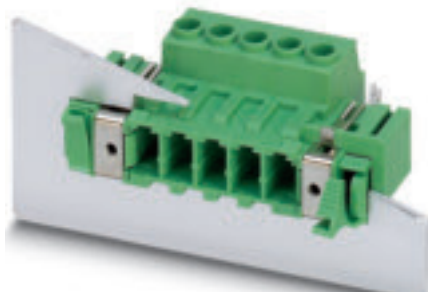
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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



DFK-PC 5/...-STF-7,62

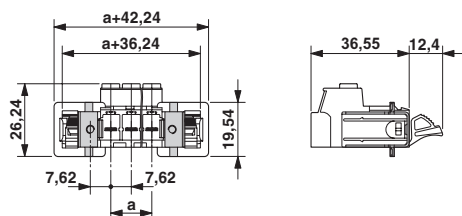
Screw connection on the inside of the device, threaded flange, shield connection on the front side of the device, UL 600 V



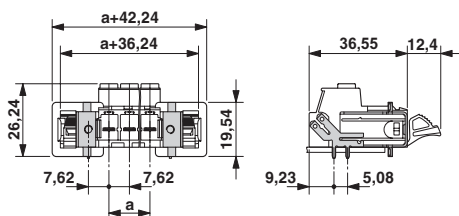
DFK-PC 5/...-STF-SH-7,62

Screw connection on the inside of the device, threaded flange, shield feed-through on the inside of the device, UL 600 V

Dimensional drawing

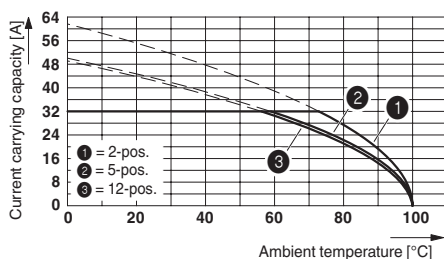


Dimensional drawing

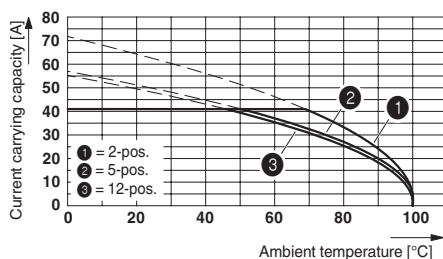


Representative derating curves of the above-mentioned plugs

Type: DFK-PC 5/...-ST-7,62 with PC 5/...-ST-7,62
Conductor cross-section = 6 mm²



Type: DFK-PC 5/...-ST-7,62 with PC 5/...-ST-7,62
Conductor cross-section = 10 mm²



Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

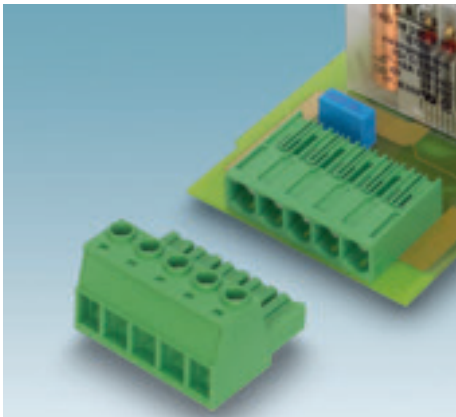
Ordering data

Type	Order No.	Pcs. / Pkt.
7.62 mm pitch, 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

COMBICON power

PC 6 series connectors of up to 10 mm²

Plug components with a screw connection up to 41 A



- High-capacity plug components 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-HCC 4 keying profile

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



PC 6/ ...-ST-10,16

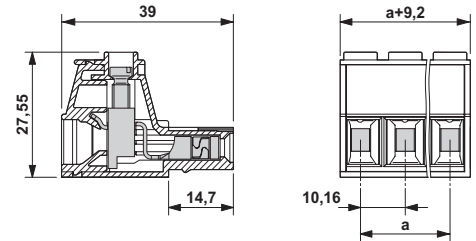
UL 600 V



Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Marker card SK 10/5	491
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	

Dimensional drawing



Derating curve informations

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

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrules with plastic sleeve	[mm ²]
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
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 / group of insulation material	
Inflammability class acc. to UL 94	

41 ¹⁾ / 6		
1000		
10.16		
0.75 - 10 / 0.75 - 6 / 18 - 8		
0.5 - 6		
0.5 - 6		
0.75 - 4 / 0.75 - 6		
0.5 - 2.5		
0.5 - 4		
III / 3 III / 2 II / 2		
1000 1000 1000		
8 8 6		
B C D		
600 600 -		
50 50 -		
20 - 8 20 - 8 -		
B C D		
- - -		
- - -		
- - -		
12		
M4		
1.2 - 1.5		
PA / I		
V0		

Ordering data

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

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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



PC 6/...-STF-10,16

With screw flange, UL 600 V

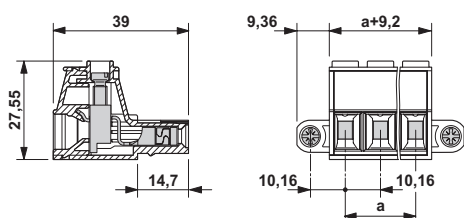


PC 6/...-STF-SH-10,16

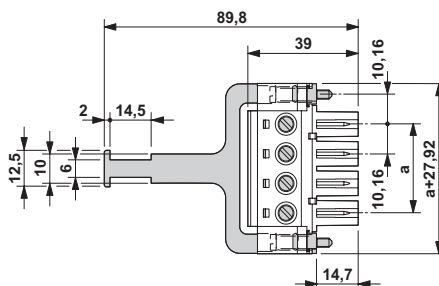
With screw flange and shield, UL 600 V



Dimensional drawing

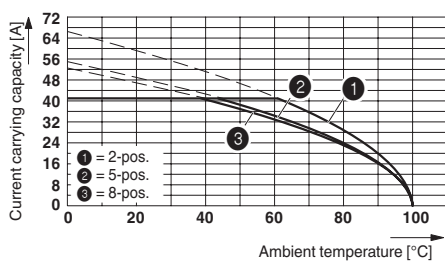


Dimensional drawing



Representative derating curve

Type: PC 6/...-ST-10,16 with PC 6-16/...-G1-10,16



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
PC 6/ 3-STF-SH-10,16	1973042	50
PC 6/ 4-STF-SH-10,16	1966431	50

COMBICON power

PC 6 series connectors of up to 10 mm²

Plug components for direct mounting up to 41 A



- 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-to-maintain PCB connection (PC 6-16 G1) or inverted IPC 16 plug component
- Laterally mounted flange for screw connection in the housing / on the mounting plate

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



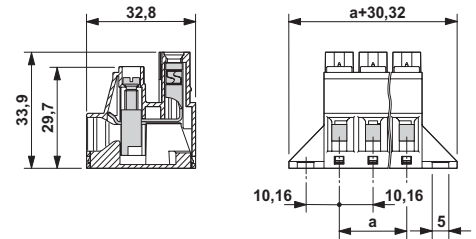
PCU 6/ ...-STD-10,16

Vertical plug-in direction, with female contact, can be screwed on, UL 600 V

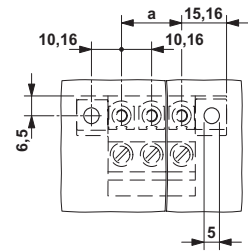
Accessories

For all types	Type	Page
	Marker card SK 10/5	491
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Keying profile CP-HCC 4 Order No. 1600027	38

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrules with plastic sleeve	[mm ²]
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
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 / group of insulation material	
Inflammability class acc. to UL 94	

41 ¹⁾ / 6
1000
10.16
0.5 - 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
B C D
600 600 -
50 50 -
20 - 8 20 - 8 -
B C D
- - -
- - -
- - -
12
M4
1.2 - 1.5
PA / I
V0

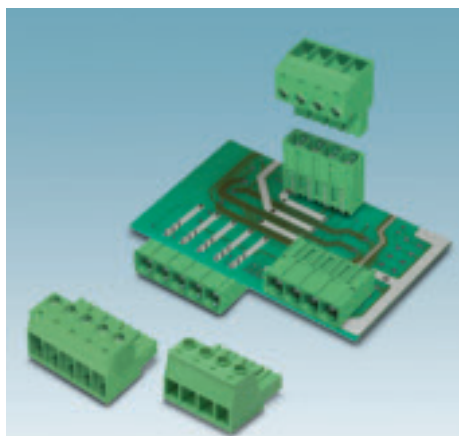
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		10.16 mm pitch, color: green		
2	10.16	PCU 6/ 2-STD-10,16	1922637	50
3	20.32	PCU 6/ 3-STD-10,16	1922640	50
4	30.48	PCU 6/ 4-STD-10,16	1922653	50
5	40.64	PCU 6/ 5-STD-10,16	1922666	50
6	50.80	PCU 6/ 6-STD-10,16	1922679	50
7	60.96	PCU 6/ 7-STD-10,16	1922682	50
8	71.12	PCU 6/ 8-STD-10,16	1922695	50
9	81.28	PCU 6/ 9-STD-10,16	1922705	50

COMBICON power

PC 16 series connectors of up to 16 mm²

Plug components with a screw connection up to 76 A



- High-capacity plug components 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 onto PC 6-16 G1 and IPC 16 ST
- CP-HCC 4 keying profile

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

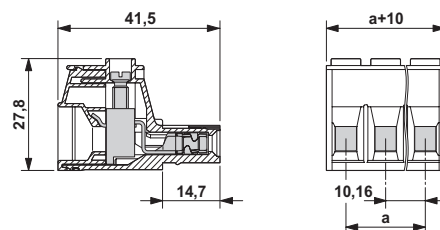


PC 16/ ...-ST-10,16

UL 600 V



Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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 (2 cond. with the same cross section)

Solid & multi-strand / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

76¹⁾ / 16

1000

10.16

0.75 - 16 / 0.75 - 16 / 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

B C D

600 600 -

55 55 -

20 - 6 20 - 6 -

B C D

- - -

- - -

- - -

14

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

Type

10.16 mm pitch, color: green

Order No.

Pcs. / Pkt.

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



PC 16/...-STF-10,16

With screw flange, UL 600 V

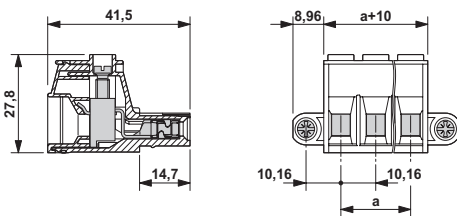


PC 16/...-STF-SH-10,16

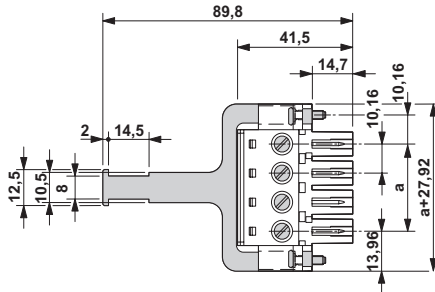
With screw flange and shield, UL 600 V



Dimensional drawing

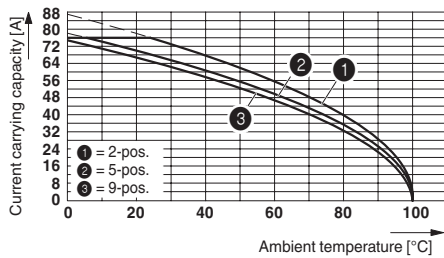


Dimensional drawing

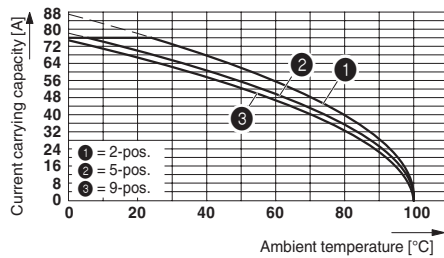


Representative derating curves of the above-mentioned plugs

Type: PC 16/...-ST-10,16 with PC 6-16/...-G1-10,16



Type: PC 16/...-ST-10,16 with DFK-PC 6-16/...-G-10,16



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

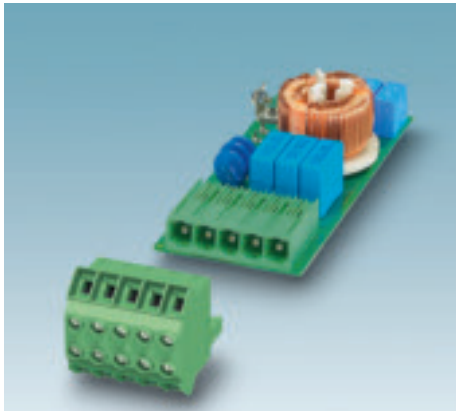
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
PC 16/ 3-STF-SH-10,16	1737530	50
PC 16/ 4-STF-SH-10,16	1970359	50

COMBICON power

PC 16 series connectors of up to 16 mm²

TWIN plug components with a screw connection up to 76 A



- Plug component with a double connection and a current carrying capacity of 76 A (refer to the derating curve)
- 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-HCC 4 keying profile

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) UL/CUL on request.



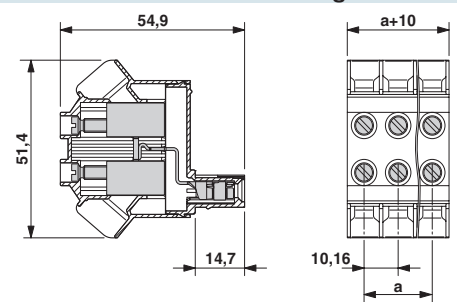
TPC 16/...-ST-10,16

Double connection, UL 600 V

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Marker card SK 10/5	491
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 (2 cond. with the same cross section)	
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrules with plastic sleeve	[mm ²]
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
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 / group of insulation material	
Inflammability class acc. to UL 94	

76 ¹⁾ / 16
1000
10.16
0.75 - 16 / 0.75 - 16 / 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
B C D
- 2) -
- 2) -
- - -
B C D
- - -
- - -
- - -
14
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

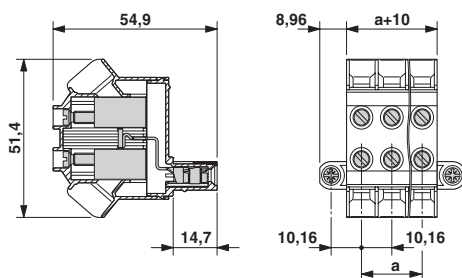
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
TPC 16/ 2-ST-10,16	1715170	50
TPC 16/ 3-ST-10,16	1715183	50
TPC 16/ 4-ST-10,16	1715196	50
TPC 16/ 5-ST-10,16	1715206	50
TPC 16/ 6-ST-10,16	1715219	50
TPC 16/ 7-ST-10,16	1715222	50
TPC 16/ 8-ST-10,16	1715235	50
TPC 16/ 9-ST-10,16	1715248	50



TPC 16/...-STF-10,16

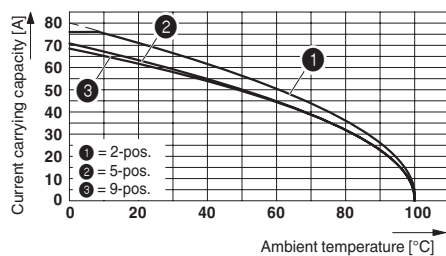
Double connection, with screw flange, UL 600 V

Dimensional drawing



Representative derating curve

Type: TPC 16/...-ST-10,16 with PC 6-16/...-G-10,16



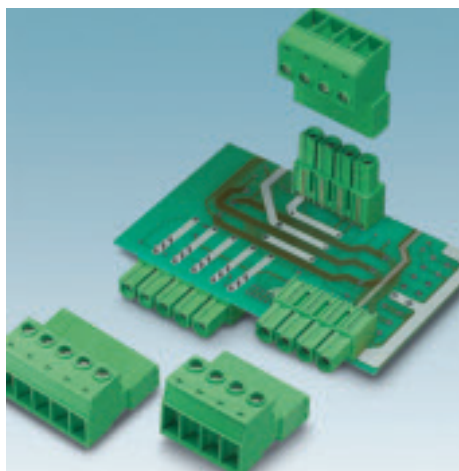
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
TPC 16/ 2-STF-10,16	1715251	50
TPC 16/ 3-STF-10,16	1715264	50
TPC 16/ 4-STF-10,16	1715277	50
TPC 16/ 5-STF-10,16	1715280	50
TPC 16/ 6-STF-10,16	1715293	50
TPC 16/ 7-STF-10,16	1715303	50
TPC 16/ 8-STF-10,16	1715316	50
TPC 16/ 9-STF-10,16	1715329	50

COMBICON power

PC 16 series connectors of up to 16 mm²

Inverted plug components up to 76 A with a male contact



- Inverted IPC 16 plug components with male contacts for touch-proof device outputs (with IPC 16 G) or free hanging cable-cable connections
- Unrestricted 600 V UL approval
- Can be plugged onto PC 16 plug components or inverted IPC 16 headers
- The SH versions provide a professional EMC shield and an optional strain relief

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

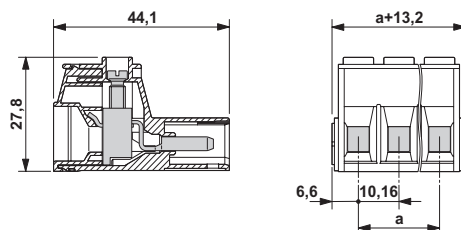


IPC 16/...-ST-10,16

Inverted with male contact, UL 600 V



Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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 (2 cond. with the same cross section)

Solid & multi-strand / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

76¹⁾ / 16

1000

10.16

0.75 - 16 / 0.75 - 16 / 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

B C D

600 600 -

55 55 -

20 - 6 20 - 6 -

B C D

- - -

- - -

- - -

14

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

Type

10.16 mm pitch, color: green

Order No.

Pcs. / Pkt.

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



IPC 16/ ...-STF-10,16

Inverted with male contact and screw flange, UL 600 V

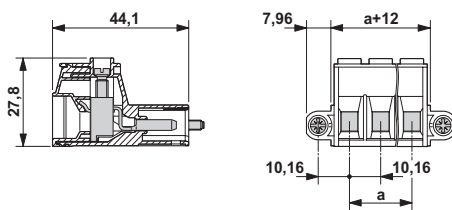


IPC 16/...-STF-SH-10,16

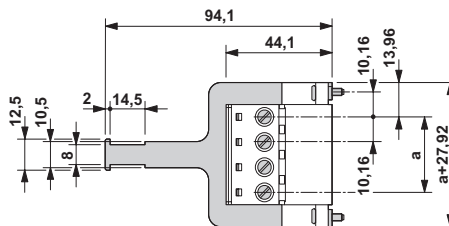
Inverted with male contact, screw flange and shield, UL 600 V



Dimensional drawing

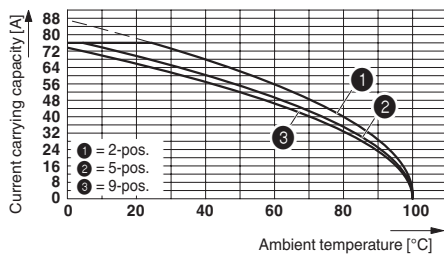


Dimensional drawing

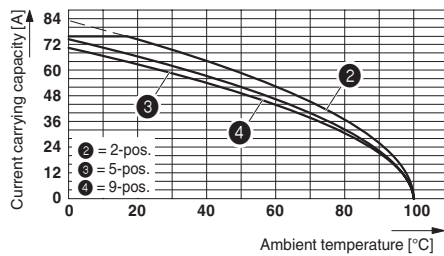


Representative derating curves of the above-mentioned plugs

Type: IPC 16/...-ST-10,16 with DFK-IPC 16/...-G-10,16



Type: IPC 16/...-ST-10,16 with IPC 16/...-G-10,16



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

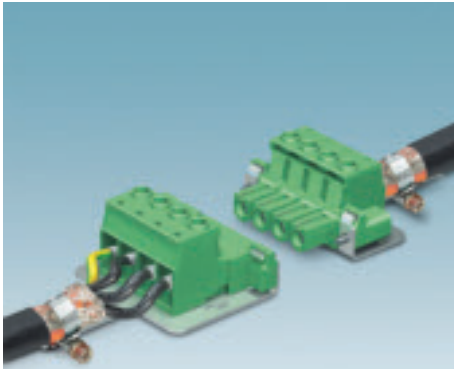
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

COMBICON power

PC 16 series connectors of up to 16 mm²

Inverted plug components up to 76 A with a male contact



- Inverted IPC 16 plug components with male contacts for free hanging cable-cable connections
- Increased protection against vibration thanks to screw-on STGF plug components with a threaded flange (can be plugged onto PC 16 plug components)
- Unrestricted 600 V UL approval
- The SH versions provide a professional EMC shield and an optional strain relief

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load. When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



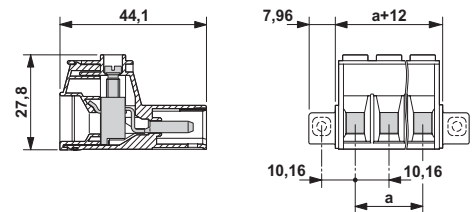
IPC 16/ ...-STGF-10,16

Inverted with male contact and threaded flange, UL 600 V

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Marker card SK 10/5	491
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²] 76 ¹⁾ / 16
Rated insulation voltage with pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG 0.75 - 16 / 0.75 - 16 / 18 - 6
Stranded with ferrules without plastic sleeve	[mm ²] 0.5 - 16
Stranded with ferrules with plastic sleeve	[mm ²] 0.5 - 16
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid & multi-strand / stranded	[mm ²] 0.75 - 6 / 0.75 - 6
Stranded with ferrules without plastic sleeve	[mm ²] 0.5 - 4
Stranded with TWIN ferrules with plastic sleeve	[mm ²] 0.5 - 6
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 B C D
Nominal voltage	[V] 600 600 -
Nominal current	[A] 55 55 -
Connection capacity AWG	AWG 20 - 6 20 - 6 -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 14
Screw thread	M4
Tightening torque	[Nm] 1.7 - 1.8
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0

Ordering data

No. of pos.	Type	Order No.	Pcs. / Pkt.
2	10.16 mm pitch, color: green		
3	IPC 16/ 2-STGF-10,16	1975817	50
4	IPC 16/ 3-STGF-10,16	1975820	50
5	IPC 16/ 4-STGF-10,16	1975833	50
6	IPC 16/ 5-STGF-10,16	1975846	50
7	IPC 16/ 6-STGF-10,16	1975859	50
8	IPC 16/ 7-STGF-10,16	1975862	50
9	IPC 16/ 8-STGF-10,16	1975875	50
	IPC 16/ 9-STGF-10,16	1975888	50

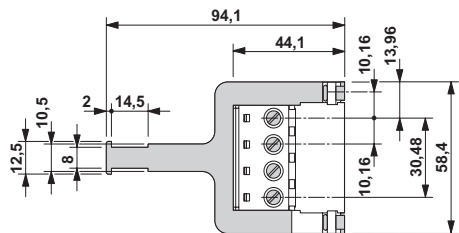


IPC 16/ ...-STGF-SH-10,16

Inverted with male contact,
threaded flange and shield, UL 600 V

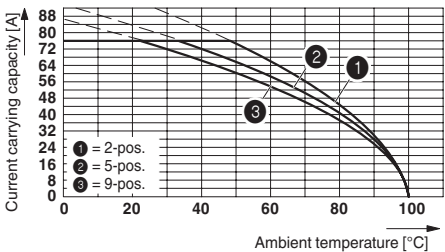


Dimensional drawing



Representative derating curve

Type: PC 16/...-ST-10,16 with IPC 16/...-ST-10,16



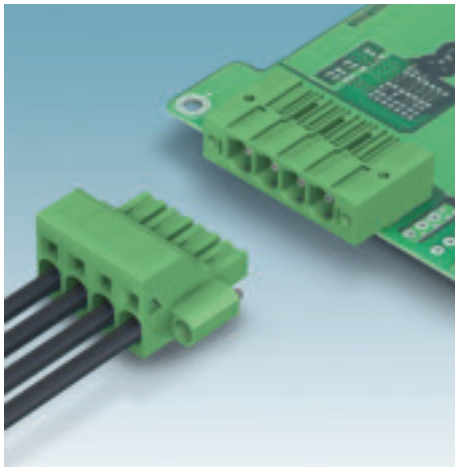
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
IPC 16/ 4-STGF-SH-10,16	1975891	50

COMBICON power

PC 16 series connectors of up to 16 mm²

Plug components with a push-in spring-cage connection up to 76 A



- Push-in spring-cage connector with a current carrying capacity of 76 A
- Fast connection method 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-HCC 4 keying profile

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

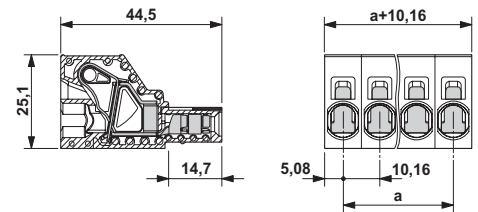


SPC 16/...-ST-10,16

Push-in spring-cage connection, UL 600 V



Dimensional drawing



Derating curve informations

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	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520	
	Marker card SK 10/5	491
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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 (2 cond. with the same cross section)

Solid & multi-strand / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

76¹⁾ / 16

1000

10.16

0.75 - 16 / 0.75 - 16 / 18 - 4

0.75 - 16

0.75 - 10

- / -

-

0.75 - 4

III / 3 III / 2 II / 2

1000 1000 1000

8 8 6

B C D

600 600 -

66 66 -

18 - 4 18 - 4 -

B C D

- - -

- - -

- - -

18

PA / I

V0

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
SPC 16/ 2-ST-10,16	1711268	50
SPC 16/ 3-ST-10,16	1711271	50
SPC 16/ 4-ST-10,16	1711284	50
SPC 16/ 5-ST-10,16	1711297	50
SPC 16/ 6-ST-10,16	1711307	50
SPC 16/ 7-ST-10,16	1711310	50
SPC 16/ 8-ST-10,16	1711323	50
SPC 16/ 9-ST-10,16	1711336	50



SPC 16/...-STF-10,16

Push-in spring-cage connection with screw flange, UL 600 V

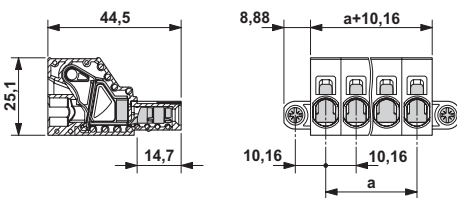


SPC 16/...-STF-SH-10,16

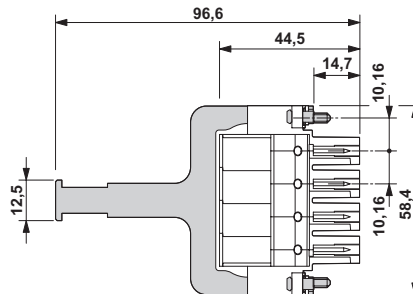
Push-in spring-cage connection with screw flange and shield, UL 600 V



Dimensional drawing

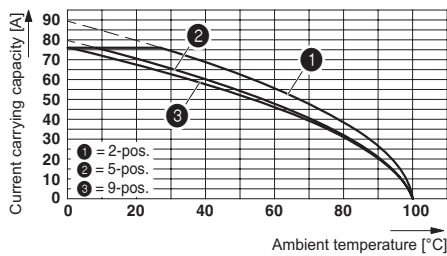


Dimensional drawing



Representative derating curve

Type: SPC 16/...-ST-10,16 with PC 6-16/...-G1-10,16



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

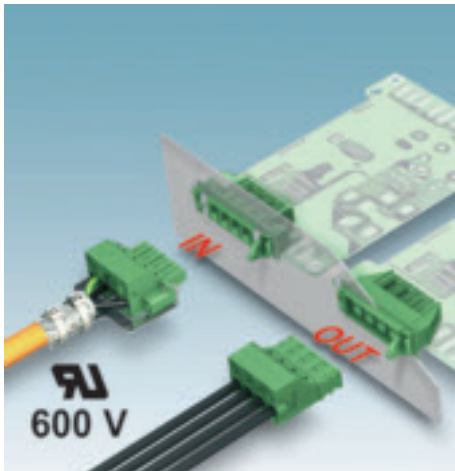
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
SPC 16/ 4-STF-SH-10,16	1711488	50

COMBICON power

PC 16 series connectors of up to 16 mm²

Inverted push-in spring-cage connection plug components up to 76 A with male contact



- Inverted push-in spring-cage connectors with male contacts for touch-proof device outputs (with IPC 16 G) or free hanging cable-cable connections
- Unrestricted 600 V UL approval
- Pin compatibility with (S)PC 16 plug components or inverted IPC 16 headers
- Increased vibration protection due to screw-on STF plug components with screw flange
- STGF plug components with threaded flange for free hanging cable-cable connections

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

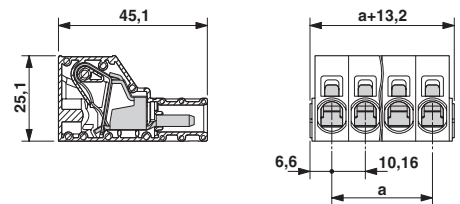


ISPC 16/...-ST-10,16

Inverted with male contact, push-in spring-cage connection, UL 600 V



Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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 (2 cond. with the same cross section) [mm²]

Solid & multi-strand / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Screwdriver SZF 2-0,8 x4,0 Order No. 1204520	
	Marker card SK 10/5	491
	Crimping pliers for 0.25 to 6 mm ² CRIMPFOX 6 Order No. 1212034	
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		10.16 mm pitch, color: green		
2	10.16	ISPC 16/ 2-ST-10,16	1748545	50
3	20.32	ISPC 16/ 3-ST-10,16	1748558	50
4	30.48	ISPC 16/ 4-ST-10,16	1748561	50
5	40.64	ISPC 16/ 5-ST-10,16	1748574	50
6	50.80	ISPC 16/ 6-ST-10,16	1748587	50
7	60.96	ISPC 16/ 7-ST-10,16	1748590	50
8	71.12	ISPC 16/ 8-ST-10,16	1748600	50
9	81.28	ISPC 16/ 9-ST-10,16	1748613	50



ISPC 16/...-STF-10,16

Inverted with male contact with screw flange and push-in spring-cage connection, UL 600 V

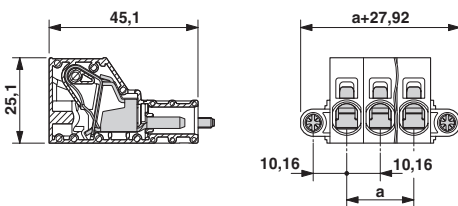


ISPC 16/...-STGF-10,16

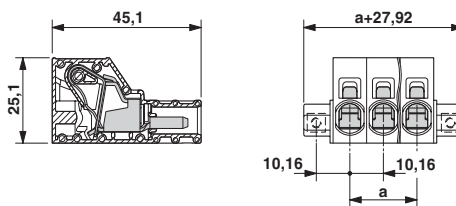
Inverted with male contact with threaded flange and push-in spring-cage connection, UL 600 V



Dimensional drawing

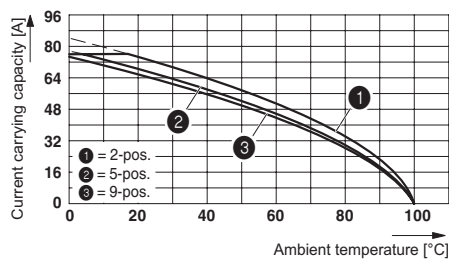


Dimensional drawing

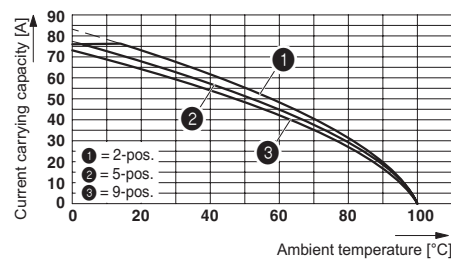


Representative derating curves of the above-mentioned plugs

Type: ISPC 16/...-ST-10,16 with IPC 16/...-G-10,16



Type: ISPC 16/...-ST-10,16 with SPC 16/...-ST-10,16



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

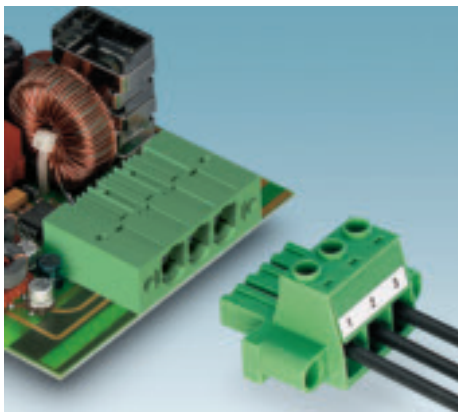
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

COMBICON power

PC 16 series connectors of up to 16 mm²

Headers up to 76 A with a male contact



- PC 6-16 headers for combination with all PC 6 and PC 16 plug components
- 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)

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

Mounting screw for PC 6-16/...-G1F-10,16 and PC 6-16/...-G1FU-10,16: Sheet metal screw ISO 1481-ST 2.9. A screw connection is only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

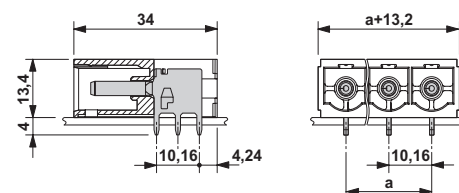


PC 6-16/...-G1-10,16

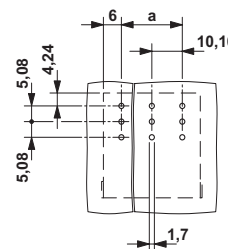
Horizontal



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter / pin dimensions [mm]

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	313
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Marker card SK 10/5	491

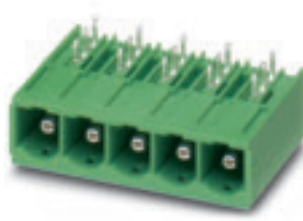
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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



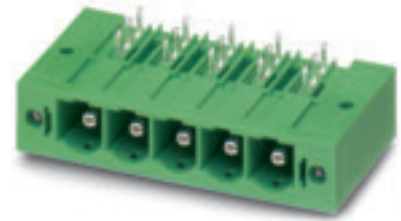
PC 6-16/...-G1F-10,16

Horizontal, with threaded flange



PC 6-16/...-G1U-10,16

Horizontal, rotated 180°

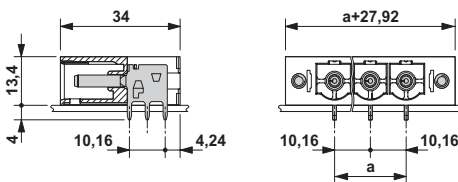


PC 6-16/...-G1FU-10,16

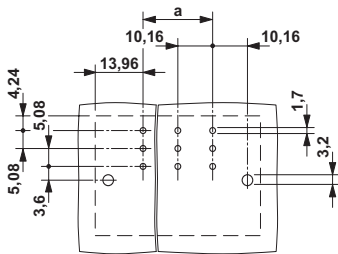
Horizontal, rotated 180°, with threaded flange



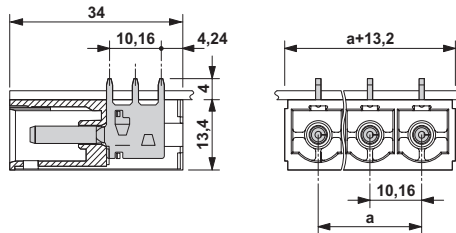
Dimensional drawing



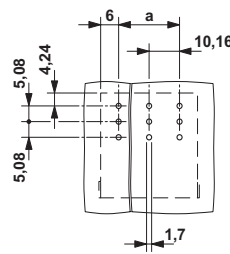
Drilling diagram



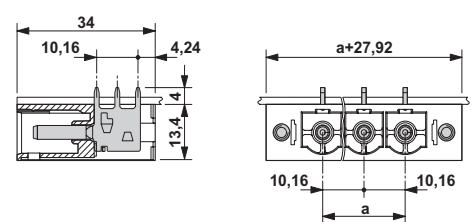
Dimensional drawing



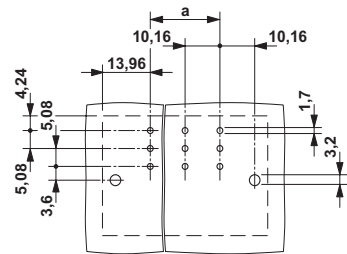
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
PC 6-16/ 2-G1F-10,16	1999000	50
PC 6-16/ 3-G1F-10,16	1999013	50
PC 6-16/ 4-G1F-10,16	1999026	50
PC 6-16/ 5-G1F-10,16	1999039	50
PC 6-16/ 6-G1F-10,16	1999042	50
PC 6-16/ 7-G1F-10,16	1999055	50
PC 6-16/ 8-G1F-10,16	1999068	50
PC 6-16/ 9-G1F-10,16	1996401	50

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

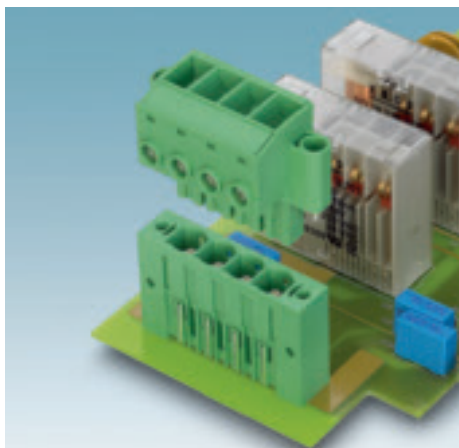
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

COMBICON power

PC 16 series connectors of up to 16 mm²

Vertical headers up to 76 A with a male contact



- Vertical PCV 6-16 headers for combination with all PC 6 and PC 16 plug components
- 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 as polarization during assembly

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

Mounting screw for PCV 6-16/...-G1F-10,16: Sheet metal screw ISO 1481-ST 2.9. A screw connection is only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

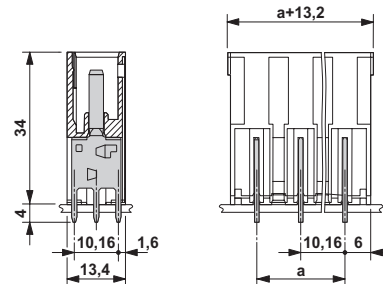


PCV 6-16/...-G1-10,16

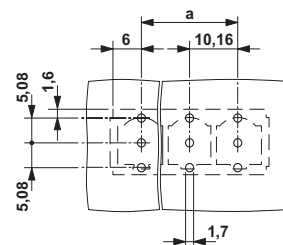
Vertical



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²] 76 ¹⁾ / -
Rated insulation voltage with pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 6 8 8
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 66 66 5
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	[mm] 1.7 / 1 x 1.2 mm

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Marker card SK 10/5	491

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

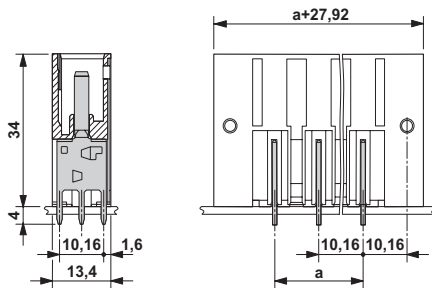


PCV 6-16/...-G1F-10,16

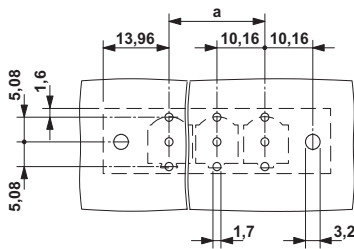
Vertical, with threaded flange



Dimensional drawing



Drilling diagram



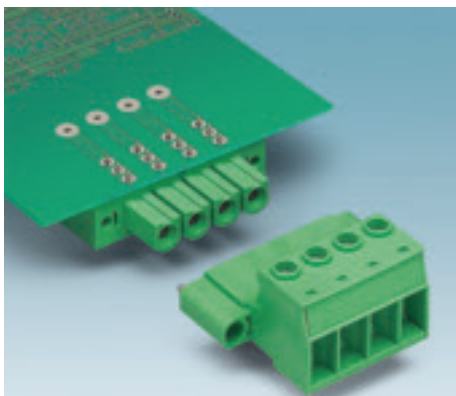
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

COMBICON power

PC 16 series connectors of up to 16 mm²

Inverted headers up to 76 A with a female contact



- Inverted IPC 16 headers 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)

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

Note:

Mounting screw for IPC 16/...-GF-10,16 and IPC 16/...-GFU-10,16: Sheet metal screw ISO 1481-ST 2.9. A screw connection is only permitted prior to soldering.

¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

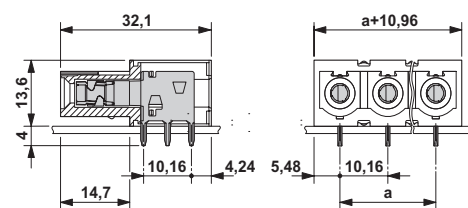


IPC 16/...-G-10,16

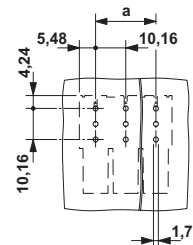
Horizontal, inverted with female contact



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

Bore hole diameter / pin dimensions [mm]

76¹⁾ / -

1000

10.16

III / 3 III / 2 II / 2

1000 1000 1000

8 8 8

B C D

300 300 600

66 66 5

- - -

B C 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

Type

10.16 mm pitch, color: green

Order No.

Pcs. / Pkt.

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



IPC 16/...-GF-10,16

Horizontal, inverted with female contact and threaded flange



IPC 16/...-GU-10,16

Horizontal, rotated 180°, inverted with female contact

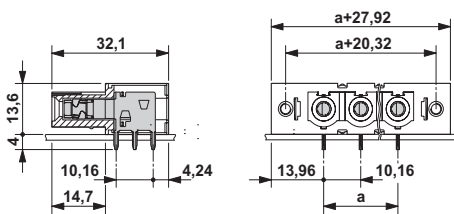


IPC 16/...-GFU-10,16

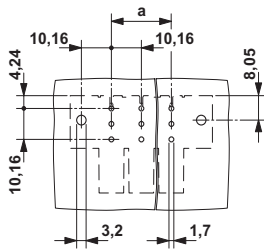
Horizontal, rotated 180°,
inverted with female contact and threaded flange



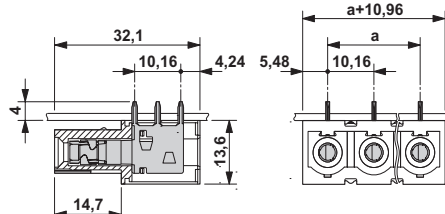
Dimensional drawing



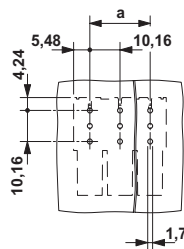
Drilling diagram



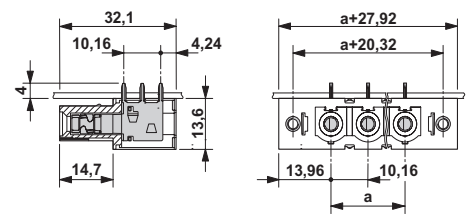
Dimensional drawing



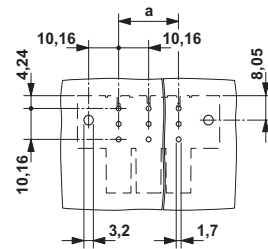
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
IPC 16/ 2-GF-10,16	1969616	50
IPC 16/ 3-GF-10,16	1969629	50
IPC 16/ 4-GF-10,16	1969632	50
IPC 16/ 5-GF-10,16	1969645	50
IPC 16/ 6-GF-10,16	1969658	50
IPC 16/ 7-GF-10,16	1969661	50
IPC 16/ 8-GF-10,16	1969674	50
IPC 16/ 9-GF-10,16	1969687	50

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

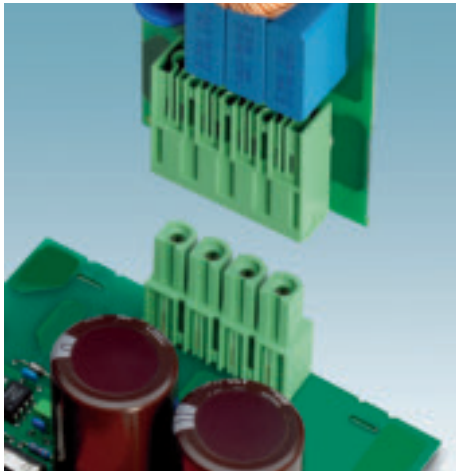
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

COMBICON power

PC 16 series connectors of up to 16 mm²

Inverted and vertical headers up to 76 A with a female contact



- Inverted IPC 16 headers 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 as polarization during assembly

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

Note:

Mounting screws for IPCV 16/...-GF-10,16: Sheet metal screw ISO 1481-ST 2.9. A screw connection is only permitted prior to soldering.

¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

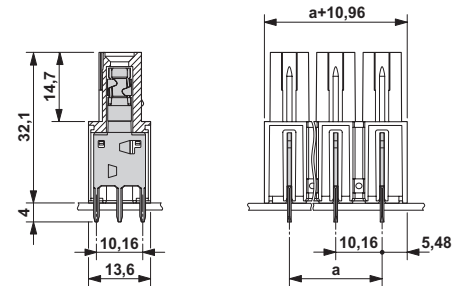


IPCV 16/...-G-10,16

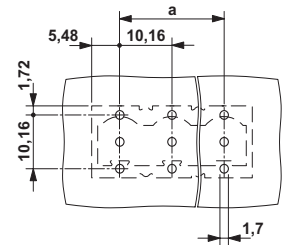
Vertical, inverted with female contact



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with 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 / group of insulation material	
Inflammability class acc. to UL 94	
Bore hole diameter / pin dimensions	[mm]

	76 ¹⁾ / -
	1000
	10.16
	III / 3 III / 2 II / 2
	1000 1000 1000
	8 8 8
	B C D
	300 300 600
	66 66 5
	- - -
	B C D
	- - -
	- - -
	- - -
	PA / I
	V0
	1.7 / 0.8 x 1.2

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

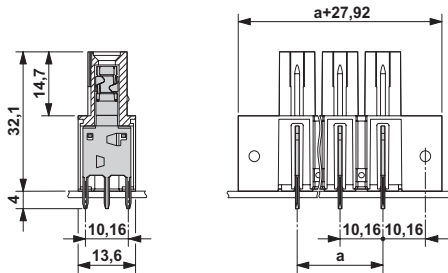


IPCV 16/ ...-GF-10,16

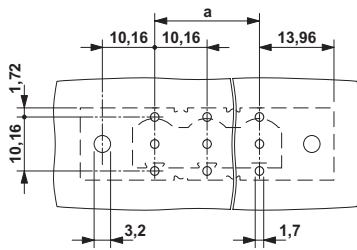
Vertical, inverted with female contact and threaded flange



Dimensional drawing



Drilling diagram



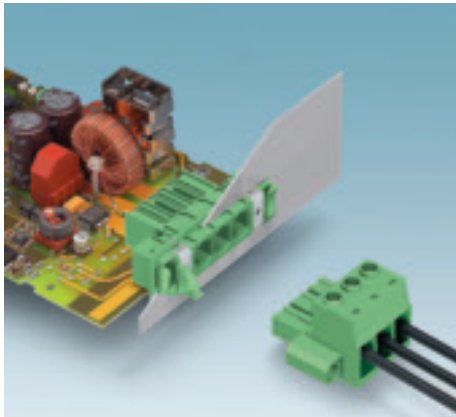
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, 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

COMBICON power

PC 16 series connectors of up to 16 mm²

Feed-through headers up to 76 A with a male contact



- Feed-through headers for combination with all PC 6 and PC 16 plug components
- For soldering onto the PCB
- Mounting on the housing wall using the snap-lock mechanism operated without tools or using the classic screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be implemented on the housing wall

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

The cutout dimensions can be found on page 444.

Note:

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. A screw connection is only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

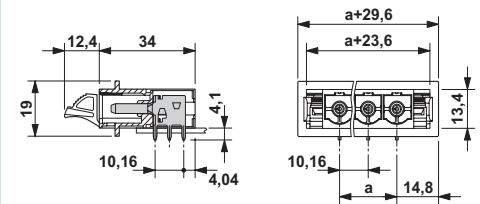


DFK-PC 6-16/...-G-10,16

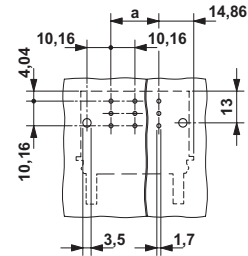
Solder connection on the inside of the device



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
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
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 / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	[mm]
	1,7 / 1,0 x 1,2 mm

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker card SK 10/5	491

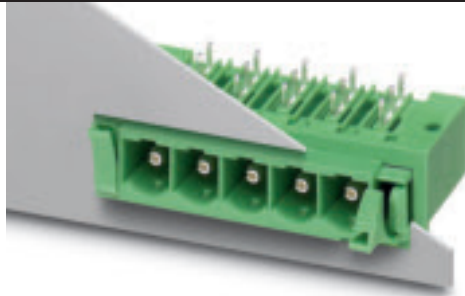
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
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



DFK-PC 6-16/...-GF-10,16

Solder connection on the inside of the device, threaded flange, shield connection on the front of the device



DFK-PC 6-16/...-GU-10,16

Solder connection on the inside of the device, rotated 180°

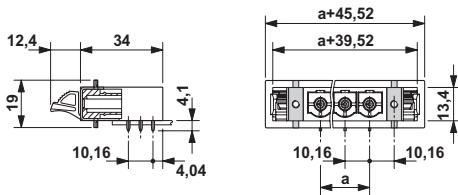


DFK-PC 6-16/...-GFU-10,16

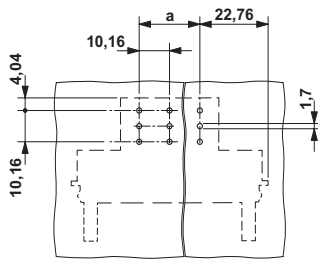
Solder connection on the inside of the device, rotated 180°, threaded flange, shield connection on the front of the device



Dimensional drawing



Drilling diagram

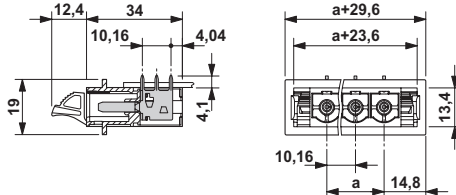


Ordering data

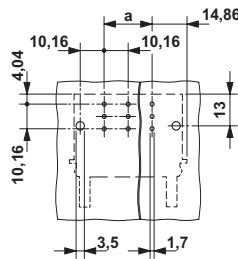
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 6-16/ 2-GF-10,16	1701537	10
DFK-PC 6-16/ 3-GF-10,16	1701540	10
DFK-PC 6-16/ 4-GF-10,16	1701553	10
DFK-PC 6-16/ 5-GF-10,16	1701566	10
DFK-PC 6-16/ 6-GF-10,16	1701579	10
DFK-PC 6-16/ 7-GF-10,16	1701582	10
DFK-PC 6-16/ 8-GF-10,16	1701595	10
DFK-PC 6-16/ 9-GF-10,16	1701605	10



Dimensional drawing



Drilling diagram

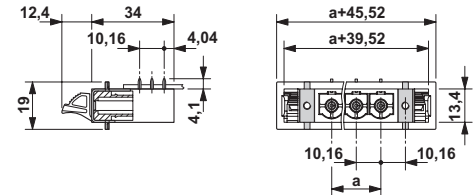


Ordering data

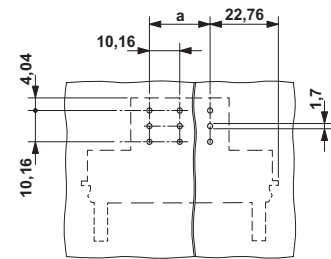
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 6-16/ 2-GU-10,16	1701618	10
DFK-PC 6-16/ 3-GU-10,16	1701621	10
DFK-PC 6-16/ 4-GU-10,16	1701634	10
DFK-PC 6-16/ 5-GU-10,16	1701647	10
DFK-PC 6-16/ 6-GU-10,16	1701650	10
DFK-PC 6-16/ 7-GU-10,16	1701663	10
DFK-PC 6-16/ 8-GU-10,16	1701676	10
DFK-PC 6-16/ 9-GU-10,16	1701689	10



Dimensional drawing



Drilling diagram



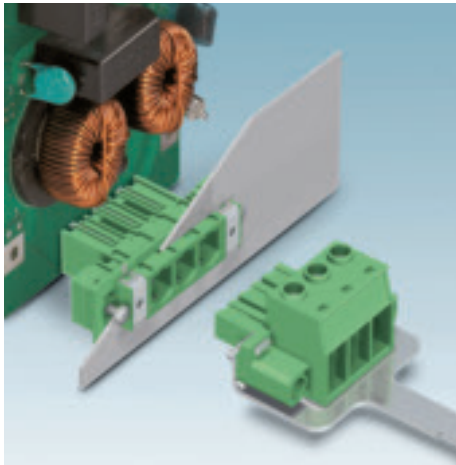
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
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

COMBICON power

PC 16 series connectors of up to 16 mm²

Feed-through headers up to 76 A with a male contact



- Feed-through headers for combination with all PC 6 and PC 16 plug components
- For soldering onto the PCB
- In SH versions, shielding functions can be implemented on the inside of the device as well
- Mounting on the housing wall using the snap-lock mechanism operated without tools or using the classic screw connection
- Wall thicknesses from 1 mm to 3 mm

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

The cutout dimensions can be found on page 444.

Note:

Mounting screw for DFK-PCV 6-16/...-G-10,16: Sheet metal screw ISO 1481-ST 2.9. A screw connection is only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

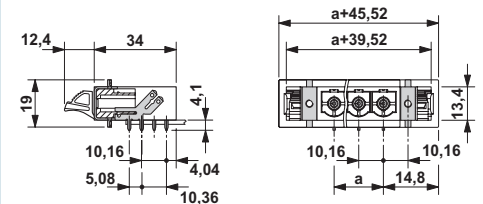


DFK-PC 6-16/...-GF-SH-10,16

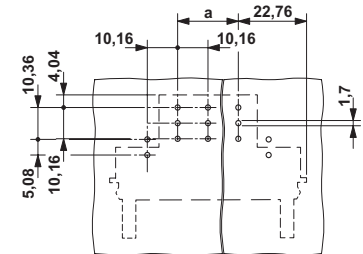
Solder connection on the inside of the device, threaded flange, shield feed-through on the inside of the device



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
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
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 / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	[mm]
	1.7 / 1.0 x 1.2 mm

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker card SK 10/5	491

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
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

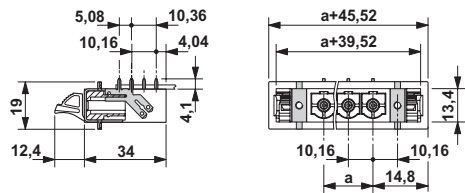


DFK-PC 6-16/...-GFU-SH-10,16

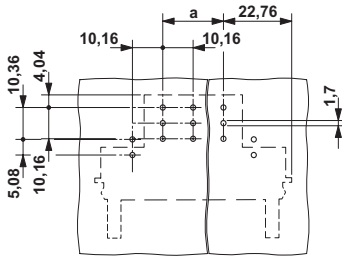
Solder connection on the inside of the device, rotated 180°, threaded flange, shield feed-through on the inside of the device



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
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

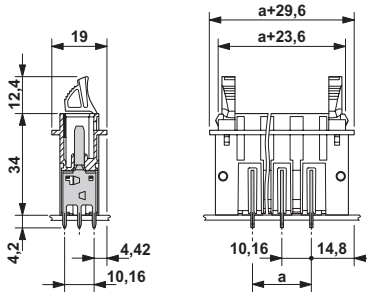


DFK-PCV 6-16/...-G-10,16

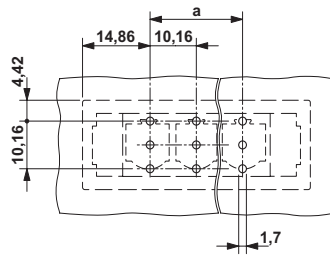
Solder connection on the inside of the device, vertical



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
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

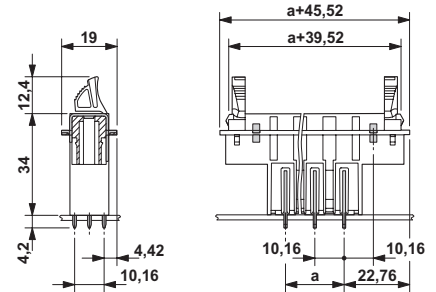


DFK-PCV 6-16/...-GF-10,16

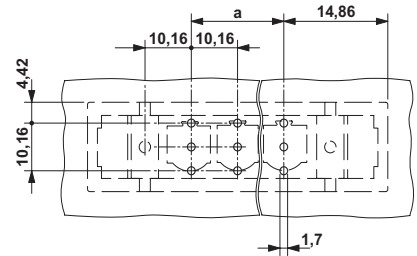
Solder connection on the inside of the device, vertical, threaded flange, shield feed-through on the front of the device



Dimensional drawing



Drilling diagram



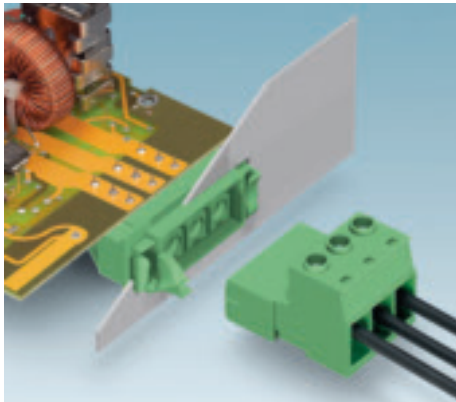
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
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

COMBICON power

PC 16 series connectors of up to 16 mm²

Inverted feed-through headers up to 76 A with a female contact



- Inverted feed-through headers to implement a touch-proof PCB output (in combination with IPC 16 ST)
- For soldering onto the PCB
- Snap-lock mechanism operated without tools or classic screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be implemented on the housing wall

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

The cutout dimensions can be found on page 444.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

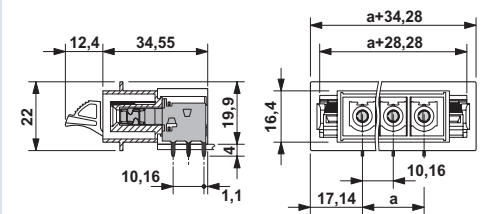


DFK-IPC 16/...-G-10,16

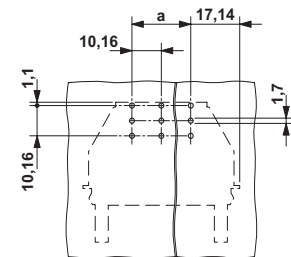
Solder connection on the inside of the device, inverted with female contact



Dimensional drawing



Drilling diagram



Technical data

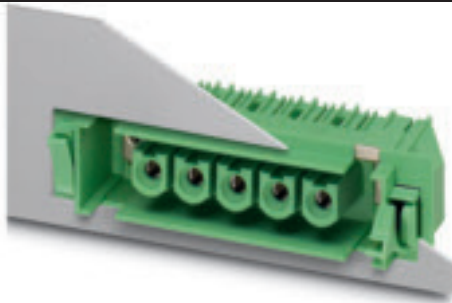
Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (UL/CUL)	Use Group
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 / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	[mm] 1.7 / 0.8 x 1.2

76 ¹⁾ / -	1000	10.16
III / 3	III / 2	II / 2
1000	1000	1000
8	8	6
B	C	D
300	300	600
66	66	5
-	-	-
B	C	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

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
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

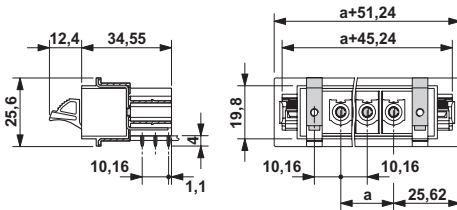


DFK-IPC 16/...-GF-10,16

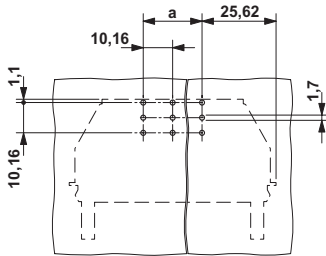
Solder connection on the inside of the device,
inverted with female contact, threaded flange,
shield connection on the front of the device



Dimensional drawing

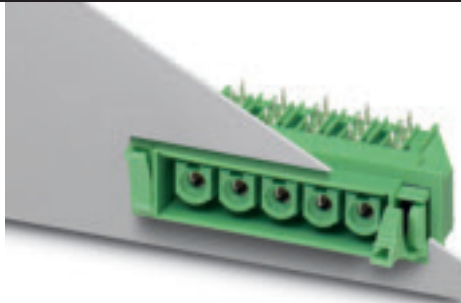


Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
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

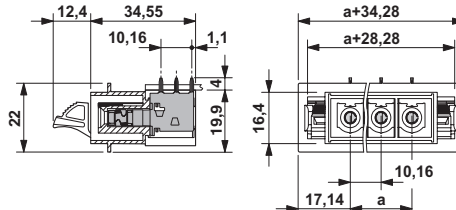


DFK-IPC 16/...-GU-10,16

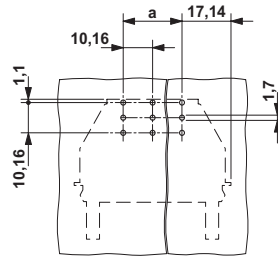
Solder connection on the inside of the device, rotated 180°,
inverted with female contact



Dimensional drawing

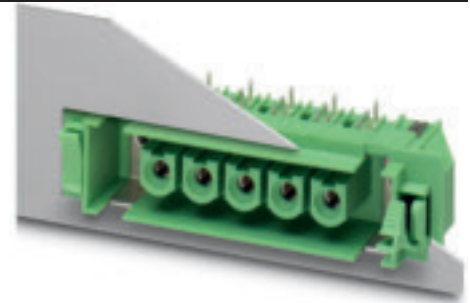


Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
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

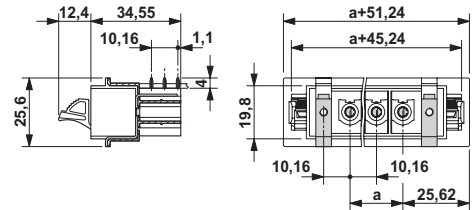


DFK-IPC 16/...-GFU-10,16

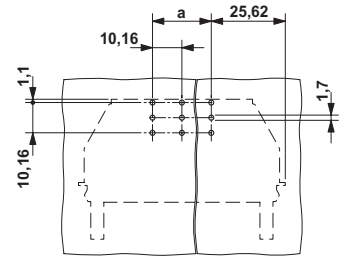
Solder connection on the inside of the device, rotated 180°,
inverted with female contact, threaded flange,
shield connection on the front of the device



Dimensional drawing



Drilling diagram



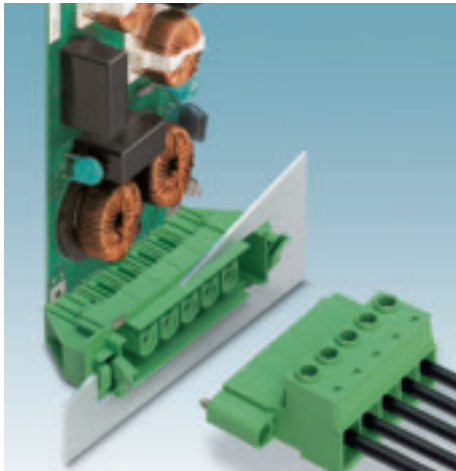
Ordering data

Type	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-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

COMBICON power

PC 16 series connectors of up to 16 mm²

Inverted feed-through headers up to 76 A with a female contact



- Inverted feed-through headers to implement a touch-proof PCB output (in combination with IPC 16 ST)
- For soldering onto the PCB
- In SH versions, shielding functions can be implemented on the inside of the device as well
- Snap-lock mechanism operated without tools or classic screw connection
- Wall thicknesses from 1 mm to 3 mm

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Note:

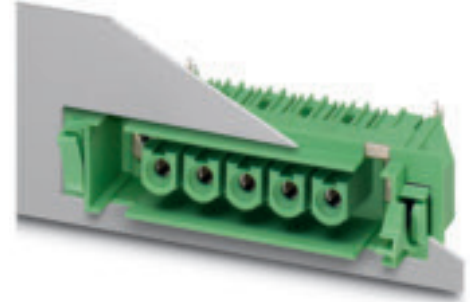
The cutout dimensions can be found on page 444.

COMBICON Select

The combination options of the connectors are documented in COMBICON Select. See:

www.phoenixcontact.net/searchassistants

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

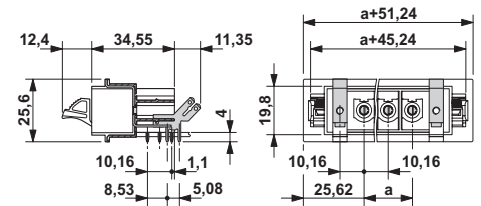


DFK-IPC 16/...-GF-SH-10,16

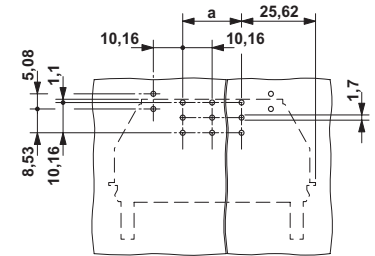
Solder connection on the inside of the device, inverted with female contact, threaded flange, shield feed-through on the inside of the device



Dimensional drawing



Drilling diagram



Technical data

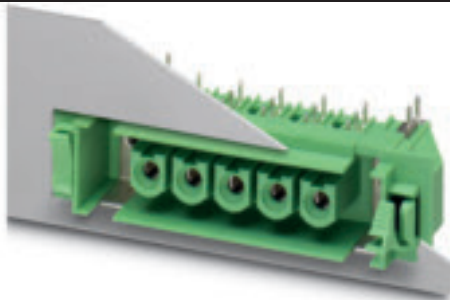
Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²] 76 ¹⁾ / -
Rated insulation voltage with pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation voltage	[V] 1000 1000 1000
Rated surge voltage	[kV] 8 8 6
Approval data (UL/CUL)	Use Group B C D
Nominal voltage	[V] 300 300 600
Nominal current	[A] 66 66 5
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0
Bore hole diameter / pin dimensions	[mm] 1.7 / 0.8 x 1.2

Accessories

For all types	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Screws for mounting on the housing panel DFK-PC 16-SS Order No. 1705449	
	Marker card SK 10/5	491

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-GF-SH-10,16	1702976	10
DFK-IPC 16/ 3-GF-SH-10,16	1702989	10
DFK-IPC 16/ 4-GF-SH-10,16	1702992	10
DFK-IPC 16/ 5-GF-SH-10,16	1703001	10
DFK-IPC 16/ 6-GF-SH-10,16	1703014	10
DFK-IPC 16/ 7-GF-SH-10,16	1703027	10
DFK-IPC 16/ 8-GF-SH-10,16	1703030	10
DFK-IPC 16/ 9-GF-SH-10,16	1703043	10

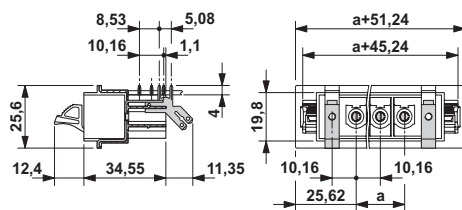


DFK-IPC 16/...-GFU-SH-10,16

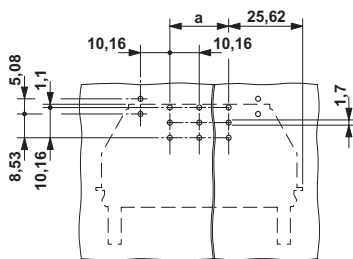
Solder connection on the inside of the device, rotated 180°, inverted with female contact, threaded flange, shield feed-through on the inside of the device



Dimensional drawing



Drilling diagram



Ordering data

Type	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

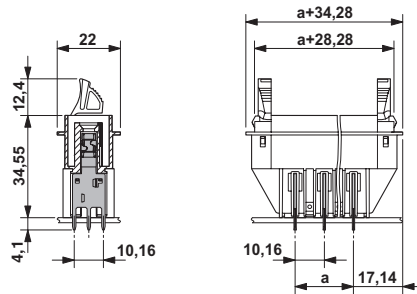


DFK-IPCV 16/...-G-10,16

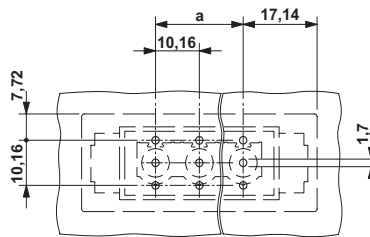
Solder connection on the inside of the device, vertical, inverted with female contact



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
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

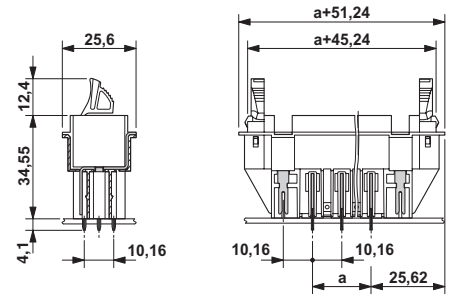


DFK-IPCV 16/...-GF-10,16

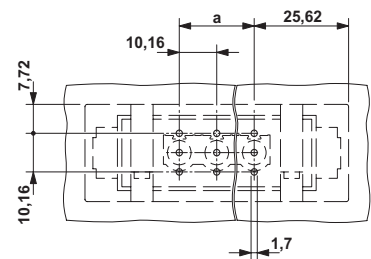
Solder connection on the inside of the device, vertical, inverted with female contact, threaded flange, shield connection on the front of the device



Dimensional drawing



Drilling diagram



Ordering data

Type	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

COMBICON power

PC 16 series connectors of up to 16 mm²

Feed-through headers up to 76 A with a male contact



- Feed-through headers for combination with PC 16 plug components
- A screw connection on the inside of the device
- Mounting on the housing wall using the snap-lock mechanism operated without tools or using the classic screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be implemented on the inside of the device as well

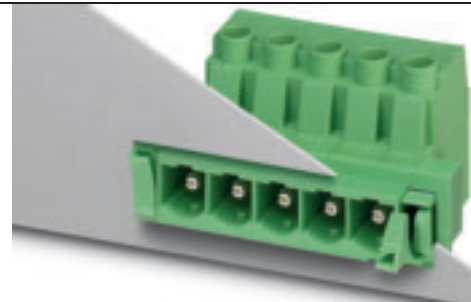
Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load. When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

Note:

The cutout dimensions can be found on page 444.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

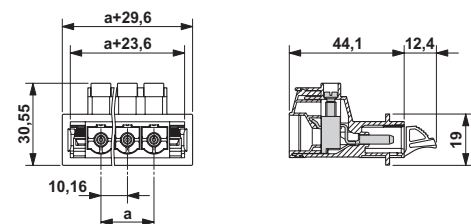


DFK-PC 16/...-ST-10,16

Screw connection on the inside of the device, UL 600 V



Dimensional drawing



Derating curve informations

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	Type	Page
	Keying profile CP-HCC 4 Order No. 1600027	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	
	Marker card SK 10/5	491
	Crimping pliers for 10 to 16 mm ² CRIMPFOX 16 S Order No. 1207983	

Technical data

Technical data in accordance with IEC / DIN VDE

Rated current / conductor cross-section [A] / [mm²]

Rated insulation voltage with 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 (2 cond. with the same cross section)

Solid & multi-strand / stranded [mm²]

Stranded with ferrules without plastic sleeve [mm²]

Stranded with TWIN 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

Approval data (CSA) Use Group

Nominal voltage [V]

Nominal current [A]

Connection capacity AWG

General data

Stripping length [mm]

Screw thread

Tightening torque [Nm]

Type of insulation material / group of insulation material

Inflammability class acc. to UL 94

76¹⁾ / 16

1000

10.16

0.75 - 16 / 0.75 - 16 / 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

B C D

600 600 -

55 55 -

20 - 6 20 - 6 -

B C D

- - -

- - -

- - -

14

M4

1.7 - 1.8

PA / I

V0

Ordering data

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

Type

10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls

Order No.

Pcs. / Pkt.

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

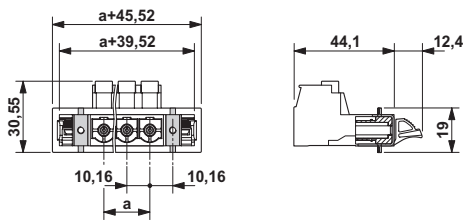


DFK-PC 16/...-STF-10,16

Screw connection on the inside of the device, threaded flange, shield connection on the front side of the device, UL 600 V



Dimensional drawing

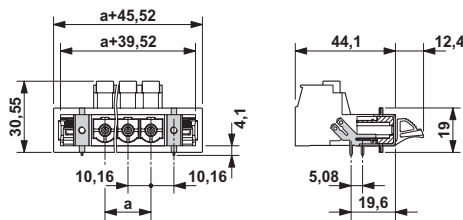


DFK-PC 16/...-STF-SH-10,16

Screw connection on the inside of the device, threaded flange, shield feed-through on the inside of the device, UL 600 V

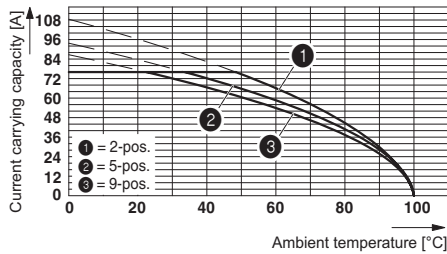


Dimensional drawing



Representative derating curve

Type: PC 16/...-ST-10,16 with DFK-PC 16/...-ST-10,16



Ordering data

Type	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-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

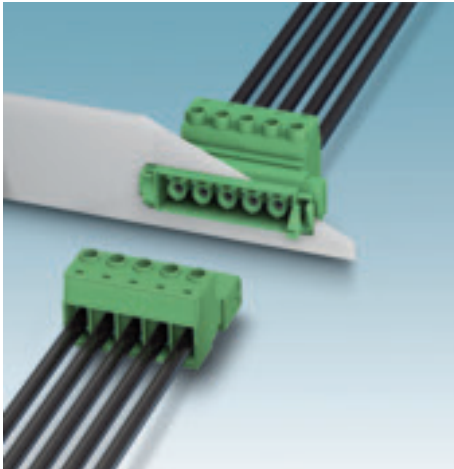
Ordering data

Type	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

COMBICON power

PC 16 series connectors of up to 16 mm²

Inverted feed-through headers up to 76 A with a female contact



- Inverted feed-through headers for a touch-proof device output (in combination with IPC 16 ST)
- A screw connection on the inside of the device
- Snap-lock mechanism operated without tools or classic screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be implemented on the inside of the device as well

Note:

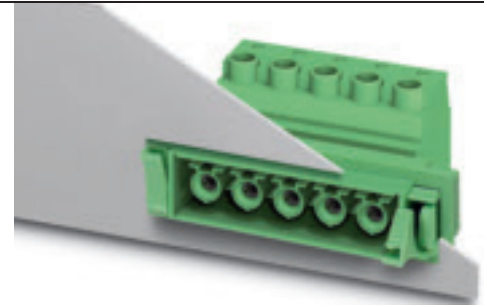
In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

When ferrules are used for 16 mm² conductor sizes, crimp with CRIMPFOX 16 S.

Note:

The cutout dimensions can be found on page 444.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

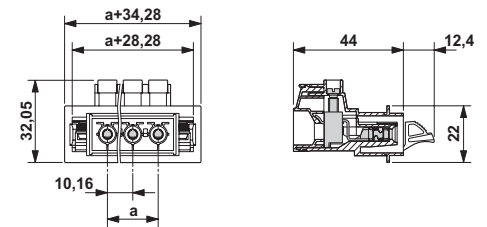


DFK-IPC 16/...-ST-10,16

Screw connection on the inside of the device, inverted with female contact, UL 600 V



Dimensional drawing



Derating curve informations

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

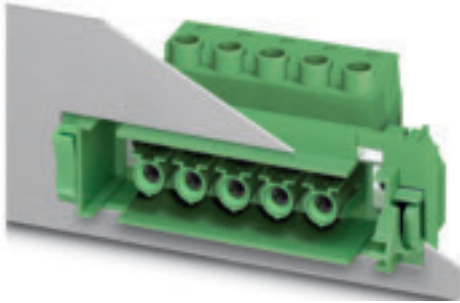
Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with ferrules with plastic sleeve	[mm ²]
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid & multi-strand / stranded	[mm ²]
Stranded with ferrules without plastic sleeve	[mm ²]
Stranded with TWIN 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]
Screw thread	
Tightening torque	[Nm]
Type of insulation material / group of insulation material	
Inflammability class acc. to UL 94	

76 ¹⁾ / 16		
1000		
10.16		
0.75 - 16 / 0.75 - 16 / 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
B	C	D
600	600	-
55	55	-
20 - 6	20 - 6	-
B	C	D
-	-	-
-	-	-
-	-	-
14		
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

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-ST-10,16	1703690	10
DFK-IPC 16/ 3-ST-10,16	1703700	10
DFK-IPC 16/ 4-ST-10,16	1703713	10
DFK-IPC 16/ 5-ST-10,16	1703726	10
DFK-IPC 16/ 6-ST-10,16	1703739	10
DFK-IPC 16/ 7-ST-10,16	1703742	10
DFK-IPC 16/ 8-ST-10,16	1703755	10
DFK-IPC 16/ 9-ST-10,16	1703768	10

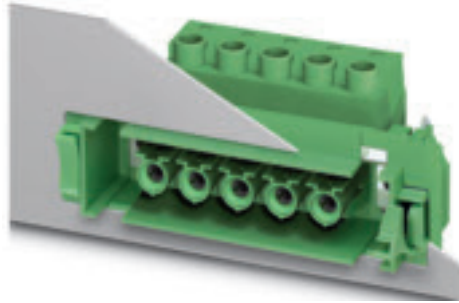
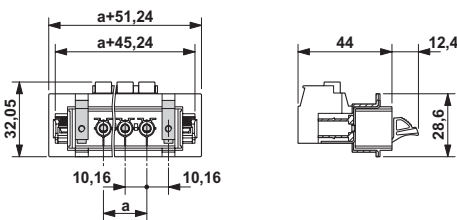


DFK-IPC 16/...STF-10,16

Screw connection on the inside of the device,
inverted with female contact, threaded flange,
shield connection on the front side of the device, UL 600 V



Dimensional drawing

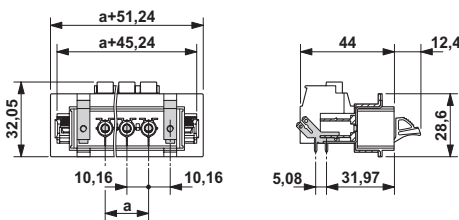


DFK-IPC 16/...-STF-SH-10,16

Screw connection on the inside of the device,
inverted with female contact, threaded flange,
shield feed-through on the inside of the device, UL 600 V

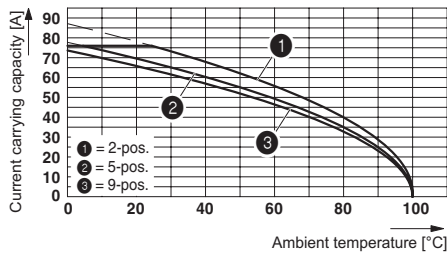


Dimensional drawing



Representative derating curve

Type: IPC 16/...-ST-10,16 with DFK-IPC 16/...-ST-10,16



Ordering data

Type	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

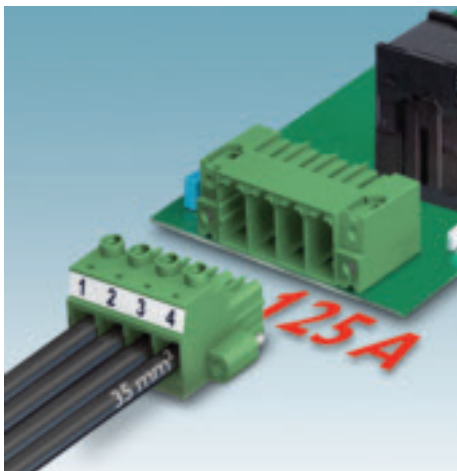
Ordering data

Type	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

COMBICON power

PC 35 series connectors of up to 35 mm²

Plugs with screw connection of up to 125 A



- High-capacity plug components 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 due to an integrated double steel spring
- Standard with screw flange for a safe connection also for applications that are subject to vibrations
- Moderate insertion and withdrawal cycles for a comfortable device connection
- Compatible with the PC 35 HC/...-GF-15,0 base strip

Note:

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) UL/CUL on request.



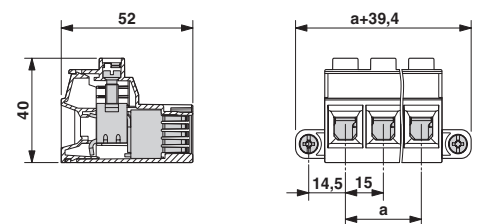
PC 35 HC/...-STF-15,00

With screw flange, 600 V UL

Accessories

For all types	Type	Page
	Marker card SK 15/5 UNBEDRUCKT Order No. 0811192	
	Screwdriver SZS 1,0 x 6,5 Order No. 1205079	
	Keying profile CP-HC Order No. 1686478	38

Dimensional drawing



Derating curve informations

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 with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²] 125 ¹⁾ / 35
Rated insulation voltage with pollution degree 2	[V] 1000
Pitch	[mm] 15
Connection capacity	
Solid & multi-strand / stranded	[mm ²] / [mm ²] / AWG 0.5 - 35 / 0.5 - 25 / 20 - 2
Stranded with ferrules without plastic sleeve	[mm ²] 1 - 25
Stranded with ferrules with plastic sleeve	[mm ²] 1.5 - 25
Multi-conductor connection capacity (2 cond. with the same cross section)	
Solid & multi-strand / stranded	[mm ²] 0.5 - 6 / 0.5 - 6
Stranded with ferrules without plastic sleeve	[mm ²] 0.5 - 4
Stranded with TWIN ferrules with plastic sleeve	[mm ²] 0.5 - 6
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 B C D
Nominal voltage	[V] - 2) -
Nominal current	[A] - 2) -
Connection capacity AWG	AWG - - -
Approval data (CSA)	Use Group B C D
Nominal voltage	[V] - - -
Nominal current	[A] - - -
Connection capacity AWG	AWG - - -
General data	
Stripping length	[mm] 20
Screw thread	M5
Tightening torque	[Nm] 2.5 - 4.5
Type of insulation material / group of insulation material	PA / I
Inflammability class acc. to UL 94	V0

Ordering data

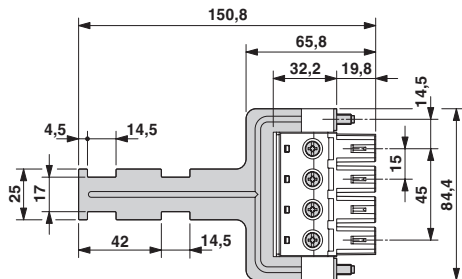
Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 2-STF-15,00	1762592	25
PC 35 HC/ 3-STF-15,00	1762602	25
PC 35 HC/ 4-STF-15,00	1762615	25
PC 35 HC/ 5-STF-15,00	1762628	25
PC 35 HC/ 6-STF-15,00	1762631	25



PC 35 HC/...-STF-SH-15,00

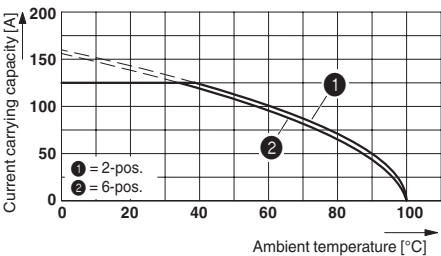
With screw flange and shield, UL 600 V

Dimensional drawing



Representative derating curve

Type: PC 35 HC/...-STF-15,00 with PC 35 HC/...-GF-15,00



Ordering data

Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 4-STF-SH-15,00	1762848	25

COMBICON power

PC 35 series connectors of up to 35 mm²

Headers for soldering in up to 125 A



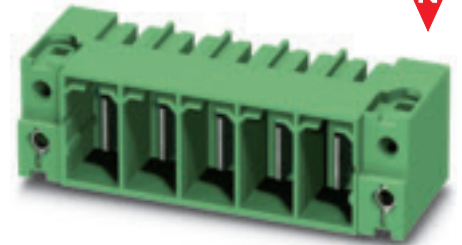
- PC 35 HC headers for combination with PC 35 plug components
- Horizontal (at 0° to the PCB) and vertical (at 90° to the PCB) versions are available
- Integrated double flange for fastening with PC 35 connector and housing panel
- Integrated threaded flange for screwing to the PCB

Note:

The cutout dimensions can be found on page 444.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) UL/CUL on request.



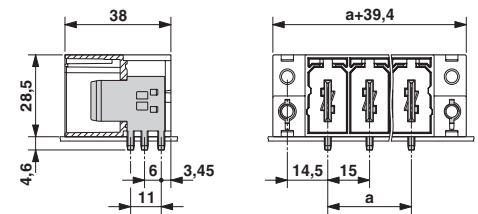
PC 35 HC/...-GF-15,00

With threaded flange, horizontal,
also for use as housing feed-through

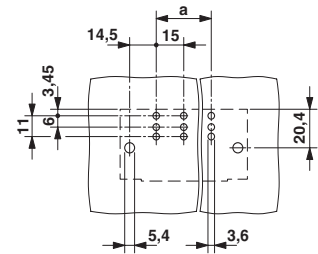
Accessories

For all types	Type	Page
	Marker card SK 15/5 UNBEDRUCKT Order No. 0811192	38
	Keying profile CP-HC Order No. 1686478	

Dimensional drawing



Drilling diagram



Technical data

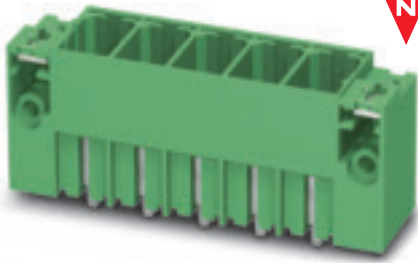
Technical data in accordance with IEC / DIN VDE	
Rated current / conductor cross-section	[A] / [mm ²]
Rated insulation voltage with pollution degree 2	[V]
Pitch	[mm]
Insulation coordination	
Surge voltage category / pollution degree	
Rated insulation voltage	[V]
Rated surge voltage	[kV]
Approval data (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 / group of insulation material	
Inflammability class acc. to UL 94	

125 ¹⁾ / -		
1000		
15		
III / 3	III / 2	II / 2
1000	1000	1000
8	8	8
B	C	D
-	2)	-
-	2)	-
-	-	-
B	C	D
-	-	-
-	-	-
-	-	-
PBT / IIIa		
V0		

Ordering data

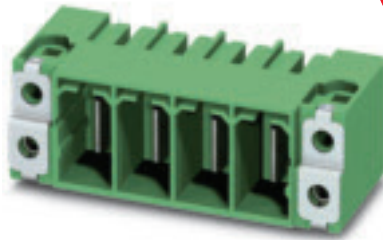
No. of pos.	Dim. a [mm]
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00

Type	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	25
PC 35 HC/ 6-GF-15,00	1762783	25



PCV 35 HC/...-GF-15,00

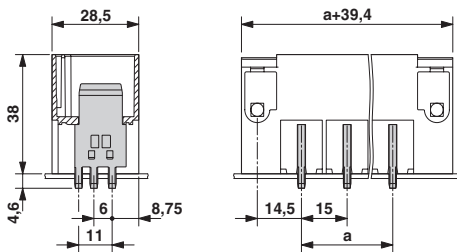
With threaded flange, vertical,
also for use as housing feed-through



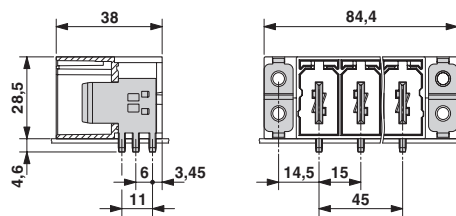
PC 35 HC/...-GF-SH-15,00

With threaded flange and shield feed-through on the inside of the
device, also for use as housing feed-through

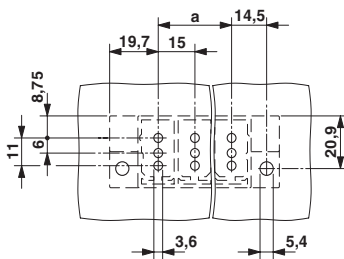
Dimensional drawing



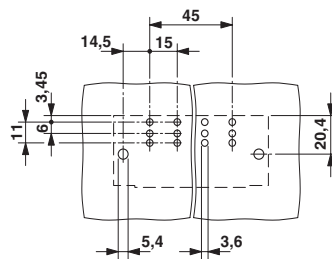
Dimensional drawing



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
PCV 35 HC/ 2-GF-15,00	1762796	25
PCV 35 HC/ 3-GF-15,00	1762806	25
PCV 35 HC/ 4-GF-15,00	1762819	25
PCV 35 HC/ 5-GF-15,00	1762822	25
PCV 35 HC/ 6-GF-15,00	1762835	25

Ordering data

Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 4-GF-SH-15,00	1762851	25

With a cable through the wall

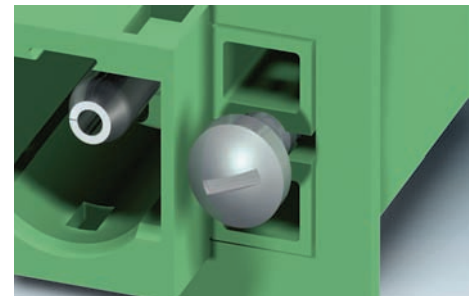
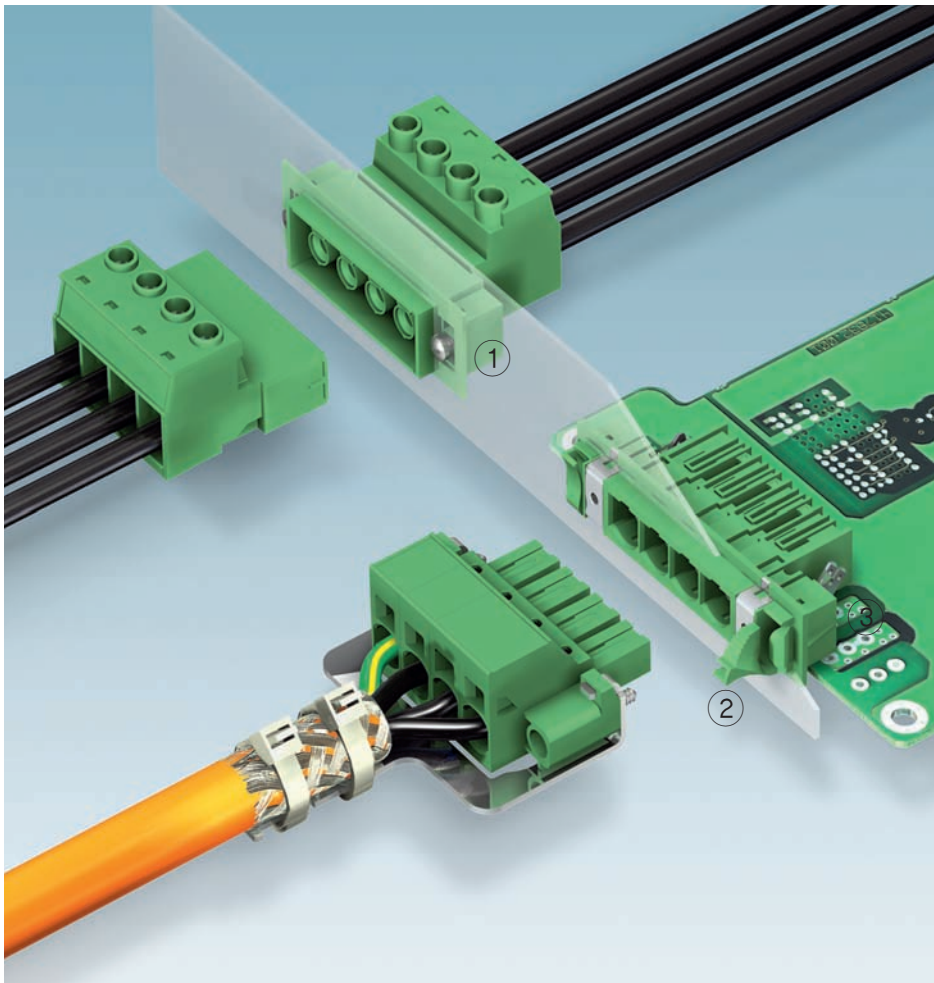
The feed-through connectors of the COMBICON power product ranges make it possible to guide a conductor through a device housing efficiently and without any gaps. For this purpose, the connector is simply inserted into the opening of the housing and fixed with the easy-to-use snap-lock mechanism ② without any additional tool.

As an alternative to the snap-lock mechanism, every connector also has screw fittings ① for the housing panel. The corresponding screws can be ordered with order no. 1705449.

Apart from the solder-in versions, the version with a screw connection inside the device is a particularly service-friendly and fast alternative. Cable-cable connections can thus be used in devices having a conductor cross-section of 16 mm² and currents of up to 76 A.

The inverted design, which allows practical connection options, completes this product range of feed-through connectors. In this way, a live device output, for example, can be designed very easily with shock protection (see page 312).

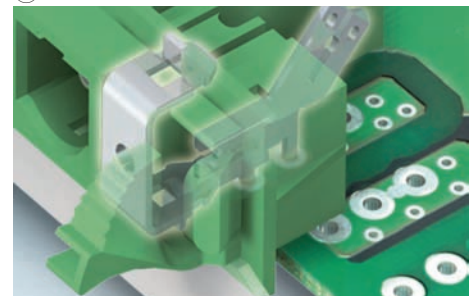
The DFK connectors in the STF/STF-SH versions ③ also provide the option of guiding shielding functions to or through the housing panel.



① Screw fitting



② Snap-lock mechanism

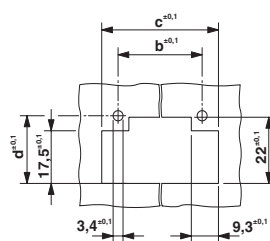
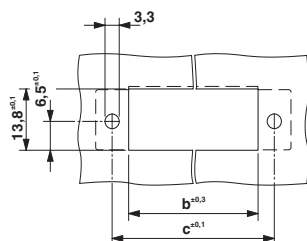


③ Shield led through with the STF-SH version

Sheet metal cutouts for DFK-PC 4

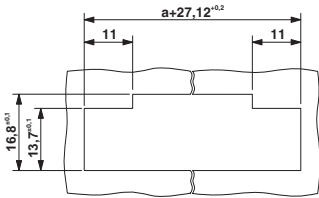
DFK-PC 4/...G-7,62-FS4,8

DFK-PC 4/...-GF-7,62



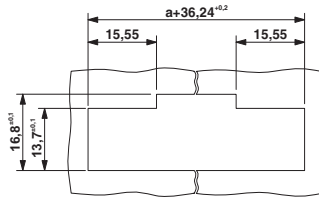
Sheet metal cutouts for DFK-PC(V) 5/...G

For G and GU versions



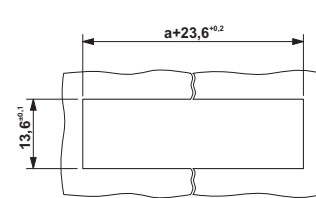
For snap-lock mechanism

For GF (-SH) and GFU (-SH) versions



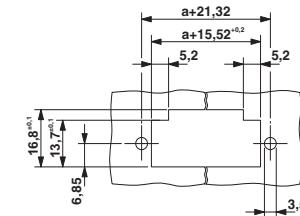
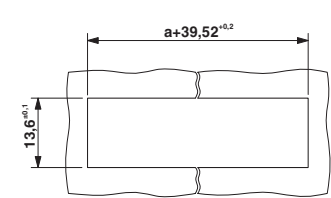
Sheet metal cutouts for DFK-PC(V) 16

For ST, G and GU versions

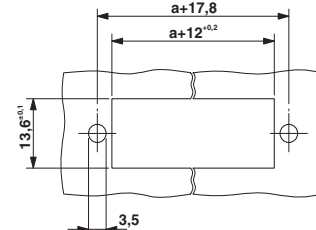
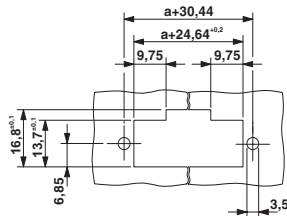


For snap-lock mechanism

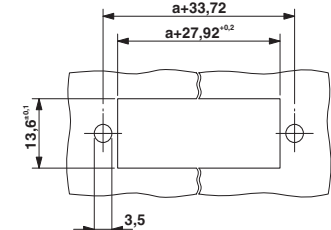
For STF (-SH), GF (-SH) and GFU (-SH) versions



For screw fitting

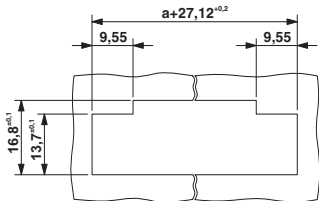


For screw fitting



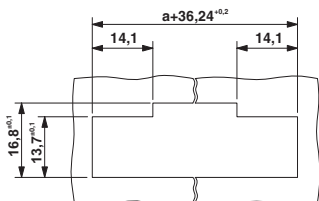
Sheet metal cutouts for DFK-PC 5/...ST

For ST versions



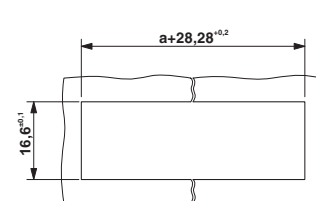
For snap-lock mechanism

For STF (-SH) versions



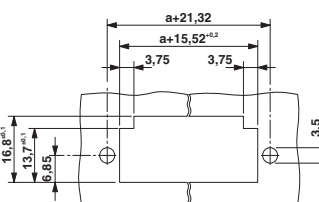
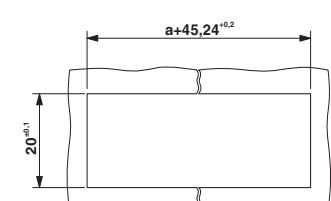
Sheet metal cutouts for DFK-IPC(V) 16

For ST, G and GU versions

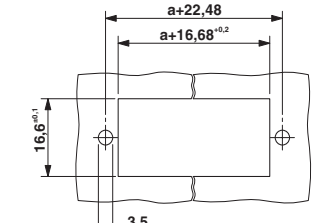
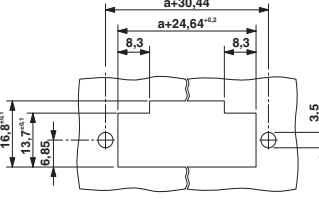


For snap-lock mechanism

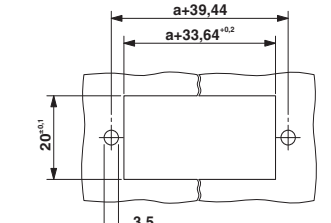
For STF (-SH), GF (-SH) and GFU (-SH) versions



For screw fitting

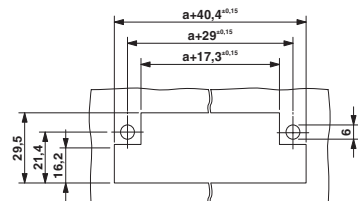


For screw fitting



Sheet metal cutouts for PC 35

PC 35 HC/...GF-15



Dimension table

Number of positions	DFK-PC 5		DFK-IPC 16		PC 35 HC/...GF-15		DFK-PC 4/...FS4,8		DFK-PC 4/...GF		DFK-PC 4/...GF	
	Dimension "a"	Dimension "a"	Dimension "a"	Dimension "b"	Dimension "c"	Dimension "b"	Dimension "c"	Dimension "b"	Dimension "c"	Dimension "b"	Dimension "c"	Dimension "b"
2	7.62	10.16	15.00	15.19	22.86	22.9	34.1	22.9	34.1	22.9	34.1	22.9
3	15.24	20.32	30.00	22.81	30.48	30.5	41.7	30.5	41.7	30.5	41.7	30.5
4	22.86	30.48	45.00	30.43	38.10	38.1	49.3	38.1	49.3	38.1	49.3	38.1
5	30.48	40.64	60.00	38.05	45.72	45.7	56.9	45.7	56.9	45.7	56.9	45.7
6	38.10	50.80	75.00	45.67	53.34	53.3	64.6	53.3	64.6	53.3	64.6	53.3
7	45.72	60.69		53.29	60.96	61.0	72.2	61.0	72.2	61.0	72.2	61.0
8	53.34	71.12		60.91	68.58	68.6	79.8	68.6	79.8	68.6	79.8	68.6
9	60.96	81.28		68.53	76.20	76.2	87.4	76.2	87.4	76.2	87.4	76.2
10	68.58			76.15	83.82	83.8	95.0	83.8	95.0	83.8	95.0	83.8
11	76.20			83.77	91.44	91.4	102.7	91.4	102.7	91.4	102.7	91.4
12	83.82			91.39	99.06	99.1	110.3	99.1	110.3	99.1	110.3	99.1

Possible wall thickness for DFK-PC 5, DFK-IPC 16 of 1.0-3.0 mm
Possible wall thickness for DFK-PC 4 of 1.0-5.0 mm