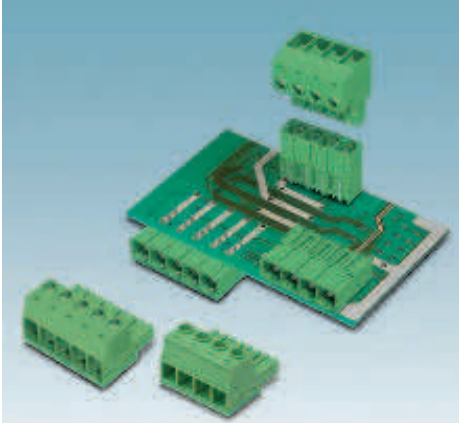


PCB terminal blocks and plug-in connectors for power electronics - COMBICON power

PC 16 series plug-in connectors up to 16 mm²

Plugs with screw connection up to 76 A



- High-capacity plugs with a current carrying capacity of 76 A and a connection capacity of 16 mm², stranded
- Unlimited 600 V UL approval
- Maximum contact reliability thanks to integrated double steel spring
- Additional features: Screw flange (-STF) and shield (-SH)
- Can be plugged into PC 6-16 headers and IPC 16 plugs
- CP-PC RD keying profile

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select Possible combinations for plug-in connectors can be found in COMBICON select at www.phoenixcontact.net/catalog or starting on page 360.
When using ferrules for 16 mm ² conductors, crimp with CRIMPFOX 16 S (see accessories).
¹⁾ Please observe the derating curves and laboratory data sheets. Derating curves for other possible combinations are available on request.

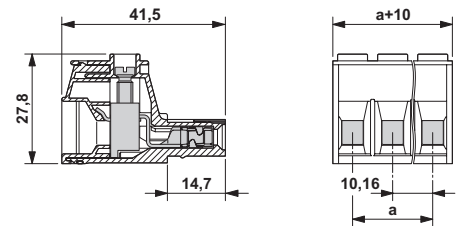


Without screw flange, 600 V UL approval



Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Screwdriver SZS 1,0 x 4,0 Order No. 1205066	
	Marker strips SK 5,0 WH:REEL Order No. 0805221	845
	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



Note regarding derating curves

Derating curves, determined according to DIN EN 61984 (VDE 0627):2002-09
Representation in accordance with 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 according to IEC/DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Connection capacity	
Solid and 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 (two conductors with the same cross section)	
Solid and 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 ferrule 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	20 - 6 20 - 6 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	14
Screw thread	M4
Tightening torque [Nm]	1.7 - 1.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Technical data

Technical data according to IEC/DIN VDE	
Rated current / conductor cross section [A] / [mm ²]	76 ¹⁾ / 16
Rated insulation voltage for pollution degree 2 [V]	1000
Pitch [mm]	10.16
Connection capacity	
Solid and 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 (two conductors with the same cross section)	
Solid and 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 ferrule 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	20 - 6 20 - 6 -
Approval data (CSA) Use Group	B C D
Nominal voltage [V]	- - -
Nominal current [A]	- - -
Connection capacity AWG	- - -
General data	
Stripping length [mm]	14
Screw thread	M4
Tightening torque [Nm]	1.7 - 1.8
Type of insulation material / insulation material group	PA / I
Inflammability class according to UL 94	V0

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: green		
PC 16/ 2-ST-10,16	1967375	50
PC 16/ 3-ST-10,16	1967388	50
PC 16/ 4-ST-10,16	1967391	50
PC 16/ 5-ST-10,16	1967401	50
PC 16/ 6-ST-10,16	1967414	50
PC 16/ 7-ST-10,16	1967427	50
PC 16/ 8-ST-10,16	1967430	50
PC 16/ 9-ST-10,16	1967443	50