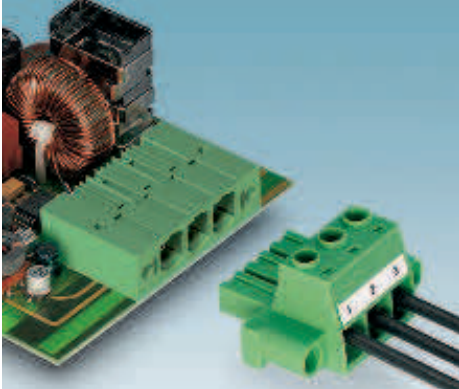


PCB terminal blocks and plug-in connectors for power electronics - COMBICON power

PC 16 series plug-in connectors up to 16 mm²

Header up to 76 A with male contact



- PC 6-16 header for use in combination with all PC 6 and PC 16 plugs
- PCB/PCB connections using IPC 16 headers
- G1U versions for solder-in direction rotated 180°
- PCB-SHIELD shroud for professional EMC shield connection
- Threaded flange G1F (also for screw connection on the PCB or in the device)

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.
Mounting screw for PC-6-16/...-G1F-10,16 and PC 6-16/...-G1FU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.
1) Please observe the derating curves and laboratory data sheets. Derating curves for other possible combinations are available on request.

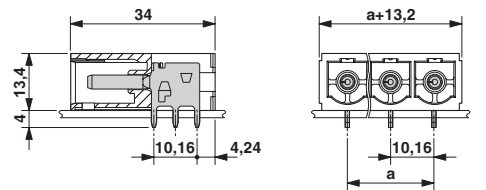


Without threaded flange

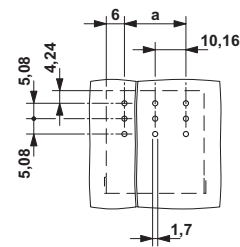


Accessories		
For all types	Type	Page
	Keying profile CP-PC RD Order No. 1701967	38
	Keying pin CS-IPC 16/6 Order No. 1970016	38
	Marker strips SK 5,0 WH-REEL Order No. 0805221	845
Only for PC 6-16/...-G1(U)-10,16		
	Shroud POWER COMBICON PCB-SHIELD Order No. 1968387	355

Dimensional drawing

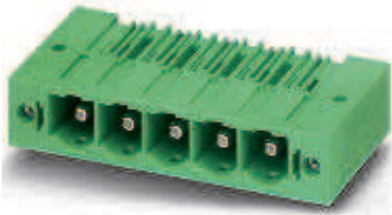


Drilling diagram

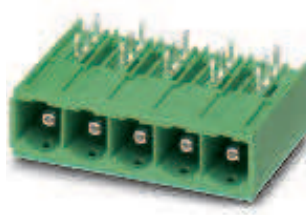


Technical data	
Technical data according to IEC/DIN VDE	
Rated current / conductor cross section	[A] / [mm ²] 76 ¹⁾ / -
Rated insulation voltage for pollution degree 2	[V] 1000
Pitch	[mm] 10.16
Insulation coordination	
Surge voltage category / pollution degree	III / 3 III / 2 II / 2
Rated insulation 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 / insulation material group	PA / I
Inflammability class according to UL 94	V0
Drill hole diameter / pin dimensions	[mm] 1.7 / 1 x 1.2 mm

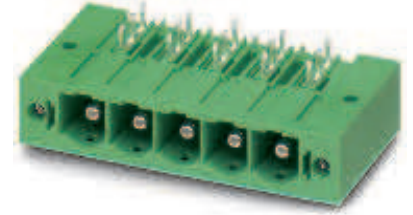
Ordering data			
Type	Order No.	Pcs. / Pkt.	
10.16 mm pitch, color: green			
No. of pos.	Dim. a [mm]		
2	10.16	PC 6-16/ 2-G1-10,16	1998933 50
3	20.32	PC 6-16/ 3-G1-10,16	1998946 50
4	30.48	PC 6-16/ 4-G1-10,16	1998959 50
5	40.64	PC 6-16/ 5-G1-10,16	1998962 50
6	50.80	PC 6-16/ 6-G1-10,16	1998975 50
7	60.96	PC 6-16/ 7-G1-10,16	1998988 50
8	71.12	PC 6-16/ 8-G1-10,16	1998991 50
9	81.28	PC 6-16/ 9-G1-10,16	1996391 50



With threaded flange



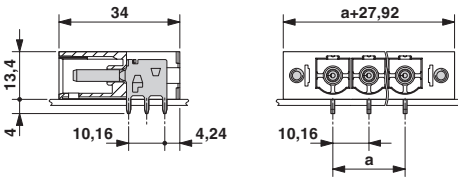
Rotated 180°, without threaded flange



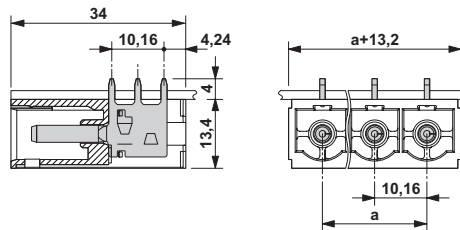
Rotated 180°, with threaded flange



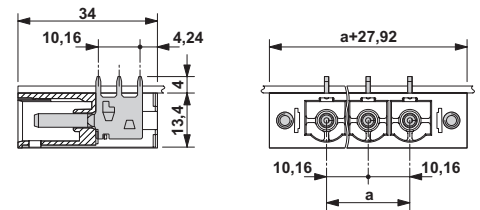
Dimensional drawing



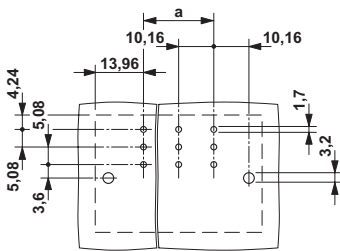
Dimensional drawing



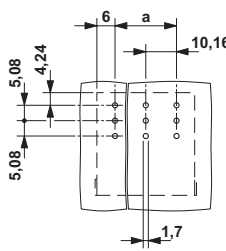
Dimensional drawing



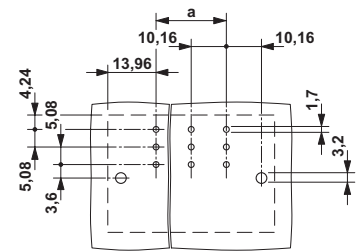
Drilling diagram



Drilling diagram



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