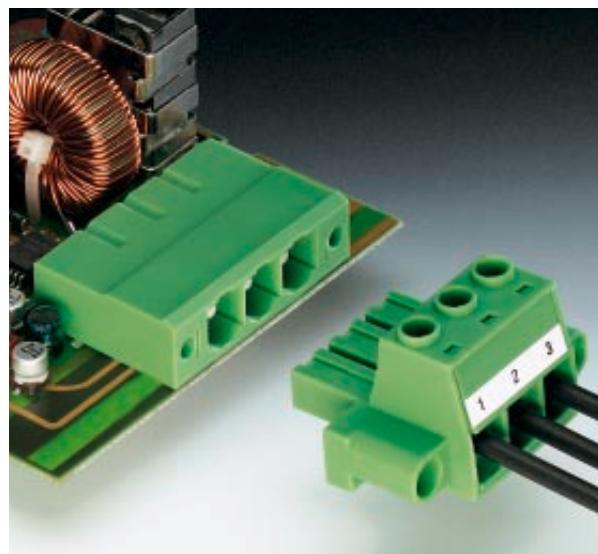


POWER COMBICON Plugs and Headers PC 6/... for Currents up to 41 A, 10.16 mm Pitch

The PC 6 plug connector features highly conductive metal alloys to offer a current carrying capacity of 41 A at a rated voltage of 1000 V. A double steel spring on the female side offers additional contact reliability especially in the case of extreme fluctuations of power or temperature.

The plugs are also available with a screw flange for vibration-proof connection to the headers, with 2 to 8 positions.

The plugs and headers are coded with the CP-HCC 4. coding profile. The self-adhesive marker cards SK 10/5 are used for labeling (see COMBICON catalog).



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

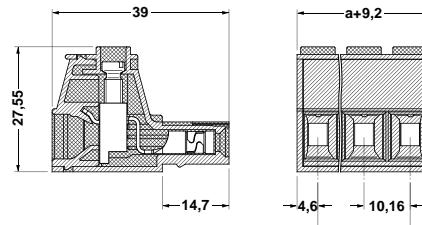
10.16 mm Pitch



Note:

COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON plugs, 10.16 mm pitch, color: green	2	10.16	PC 6/2-ST-10,16	19 13 50 7	50
	3	20.32	PC 6/3-ST-10,16	19 13 51 0	
	4	30.48	PC 6/4-ST-10,16	19 13 52 3	
	5	40.64	PC 6/5-ST-10,16	19 13 53 6	
	6	50.80	PC 6/6-ST-10,16	19 13 54 9	
	7	60.96	PC 6/7-ST-10,16	19 13 55 2	
	8	71.12	PC 6/8-ST-10,16	19 13 56 5	
(1) Coding profile , is inserted into the recess on the plug and header, insulating material: red			CP-HCC 4	16 00 02 7	100
(2) Marker card , with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks			SK 10/5 (see COMBICON catalog)		
(3) Screwdriver , blade: 1.0 x 4.0 x 100 mm, length: 200 mm			SZS 1,0 x 4,0	12 05 06 6	10
Technical data					
Dimensions				see description	
Pitch		[mm]		10.16	
Hole diameter		[mm]		—	
Pin dimensions		[mm]x[mm]		—	
Technical data in accordance with IEC/ DIN VDE					
Insulating material group		—		I	
Surge voltage category / contamination class		—/—	III / 3	III / 2	II / 2
Rated voltage		[V]	1000	1000	1000
Rated surge voltage		[kV]	8	8	8
Nominal current / cross section		[A]/[mm ²]		41 / 6.0	
Maximum load current / cross section		[A]/[mm ²]		41 / 6.0	
Connection capacity					
Solid / stranded / conductor sizes		[mm ²]/[mm ²]/AWG		0.5 - 10.0 / 0.5 - 6.0 / 20 - 7	
Stranded with ferrule without / with plastic sleeve		[mm ²]		0.5 - 6.0 / 0.5 - 6.0	
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm ²]		0.5 - 6.0 / 0.5 - 6.0	
Stranded with ferrule with plastic sleeve		[mm ²]		0.5 - 2.5	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		0.5 - 4.0	
Stripping length		[mm]		12	
Internal cylindrical gauge (IEC 60 947-1)					
Thread				A 5	
Torque		[Nm]		M 4	
Insulating material					
Inflammability class in acc. with UL 94				1.2 - 1.5	
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG			PA	
	CSA:[V]/[A]/AWG			V0	
				600 / 41 / 20 - 8	
				—	



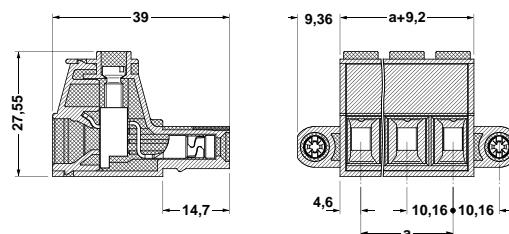
**PC 6/...-STF-10,16
with Screw Flange
10.16 mm Pitch**



HNote:

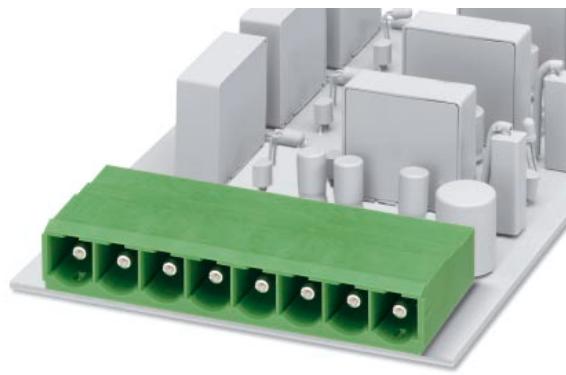
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON plugs, 10.16 mm pitch, color: green, with screw flange	2	10.16	PC 6/2-STF-10,16	19 13 57 8	50
	3	20.32	PC 6/3-STF-10,16	19 13 58 1	
	4	30.48	PC 6/4-STF-10,16	19 13 59 4	
	5	40.64	PC 6/5-STF-10,16	19 13 60 4	
	6	50.80	PC 6/6-STF-10,16	19 13 61 7	
	7	60.96	PC 6/7-STF-10,16	19 13 62 0	
	8	71.12	PC 6/8-STF-10,16	19 13 63 3	
(1) Coding profile , is inserted into the recess on the plug and header, insulating material: red			CP-HCC 4	16 00 02 7	100
(2) Marker card , with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks			SK 10/5 (see COMBICON catalog)		
(3) Screwdriver , blade: 1.0 x 4.0 x 100 mm, length: 200 mm			SZS 1,0 x 4,0	12 05 06 6	10
Technical data					
Dimensions				see description	
Pitch		[mm]		10.16	
Hole diameter		[mm]		—	
Pin dimensions		[mm]x[mm]		—	
Technical data in accordance with IEC/ DIN VDE					
Insulating material group		—		I	
Surge voltage category / contamination class		—/—	III / 3	III / 2	II / 2
Rated voltage		[V]	1000	1000	1000
Rated surge voltage		[kV]	8	8	8
Nominal current / cross section		[A]/[mm ²]		41 / 6.0	
Maximum load current / cross section		[A]/[mm ²]		41 / 6.0	
Connection capacity					
Solid / stranded / conductor sizes		[mm ²]/[mm ²]/AWG		0.5 - 10.0 / 0.5 - 6.0 / 20 - 7	
Stranded with ferrule without / with plastic sleeve		[mm ²]		0.5 - 6.0 / 0.5 - 6.0	
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm ²]		0.5 - 6.0 / 0.5 - 6.0	
Stranded with ferrule with plastic sleeve		[mm ²]		0.5 - 2.5	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		0.5 - 4.0	
Stripping length		[mm]		12	
Internal cylindrical gauge (IEC 60 947-1)					
Thread				A 5	
Torque		[Nm]		M 4	
Insulating material					
Inflammability class in acc. with UL 94				1.2 - 1.5	
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG			PA	
	CSA:[V]/[A]/AWG			V0	
				600 / 41 / 20 - 8	
				—	



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

10.16 mm Pitch

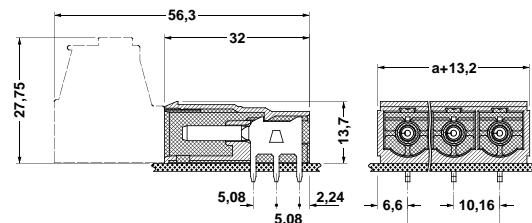
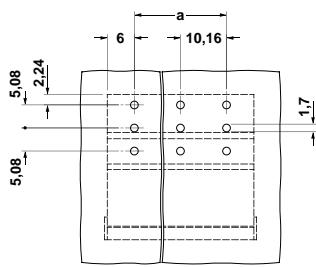


Note:

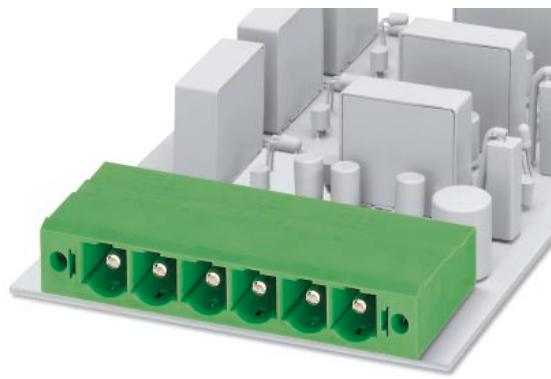
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON headers,					
10.16 mm pitch, color: green, plug-in direction parallel to the PCB	2	10.16	PC 6/2-G-10,16	19 13 64 6	50
	3	20.32	PC 6/3-G-10,16	19 13 65 9	
	4	30.48	PC 6/4-G-10,16	19 13 66 2	
	5	40.64	PC 6/5-G-10,16	19 13 67 5	
	6	50.80	PC 6/6-G-10,16	19 13 68 8	
	7	60.96	PC 6/7-G-10,16	19 13 69 1	
	8	71.12	PC 6/8-G-10,16	19 13 70 1	
(1) Coding profile , is inserted into the recess on the plug and header, insulating material: red					
(2) Marker card , with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks					
Technical data					
Dimensions				see description	
Pitch		[mm]		10.16	
Hole diameter		[mm]		1.7	
Pin dimensions		[mm]x[mm]		1.0 x 1.2	
Technical data in accordance with IEC/ DIN VDE					
Insulating material group		–		I	
Surge voltage category / contamination class		–/–	III / 3	III / 2	II / 2
Rated voltage		[V]	630 ¹⁾	1000	1000
Rated surge voltage		[kV]	6	8	8
Nominal current / cross section		[A]/[mm ²]		41 / –	
Maximum load current / cross section		[A]/[mm ²]		41 / –	
Connection capacity					
Solid / stranded / conductor sizes		[mm ²]/[mm ²]/AWG		–	
Stranded with ferrule without / with plastic sleeve		[mm ²]		–	
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm ²]		–	
Stranded with ferrule with plastic sleeve		[mm ²]		–	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		–	
Stripping length		[mm]		–	
Internal cylindrical gauge (IEC 60 947-1)					
Thread				–	
Torque		[Nm]		–	
Insulating material					
Inflammability class in acc. with UL 94				PA	
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG			300 / 41 / -	
	CSA:[V]/[A]/AWG			–	

¹⁾ 1000 V on printed circuit board.



**PC 6/...-GF-10,16
with Threaded Flange
10.16 mm Pitch**

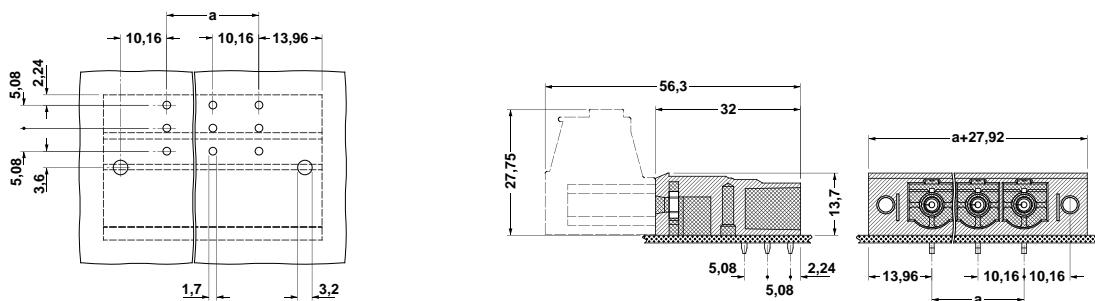


Note:

COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

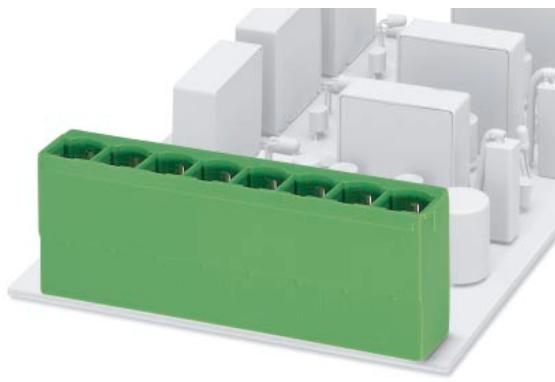
Description	No. of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON headers, 10.16 mm pitch, color: green, plug-in direction parallel to the PCB, with threaded flange	2	10.16	PC 6/2-GF-10,16	19 13 71 4	50
	3	20.32	PC 6/3-GF-10,16	19 13 72 7	
	4	30.48	PC 6/4-GF-10,16	19 13 73 0	
	5	40.64	PC 6/5-GF-10,16	19 13 74 3	
	6	50.80	PC 6/6-GF-10,16	19 13 75 6	
	7	60.96	PC 6/7-GF-10,16	19 13 76 9	
	8	71.12	PC 6/8-GF-10,16	19 13 77 2	
(1) Coding profile , is inserted into the recess on the plug and header, insulating material: red			CP-HCC 4	16 00 02 7	100
(2) Marker card , with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks			SK 10/5 (see COMBICON catalog)		
Technical data					
Dimensions				see description	
Pitch		[mm]		10.16	
Hole diameter		[mm]		1.7	
Pin dimensions		[mm]x[mm]		1.0 x 1.2	
Technical data in accordance with IEC/ DIN VDE					
Insulating material group		–		I	
Surge voltage category / contamination class		–/–	III / 3	III / 2	II / 2
Rated voltage		[V]	630 ¹⁾	1000	1000
Rated surge voltage		[kV]	6	8	8
Nominal current / cross section		[A]/[mm ²]		41 / –	
Maximum load current / cross section		[A]/[mm ²]		41 / –	
Connection capacity					
Solid / stranded / conductor sizes		[mm ²]/[mm ²]/AWG		–	
Stranded with ferrule without / with plastic sleeve		[mm ²]		–	
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm ²]		–	
Stranded with ferrule with plastic sleeve		[mm ²]		–	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		–	
Stripping length		[mm]		–	
Internal cylindrical gauge (IEC 60 947-1)					
Thread				–	
Torque		[Nm]		–	
Insulating material				PA	
Inflammability class in acc. with UL 94				V0	
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG			300 / 41 / –	
	CSA:[V]/[A]/AWG			–	

¹⁾ 1000 V on printed circuit board.



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

10.16 mm Pitch

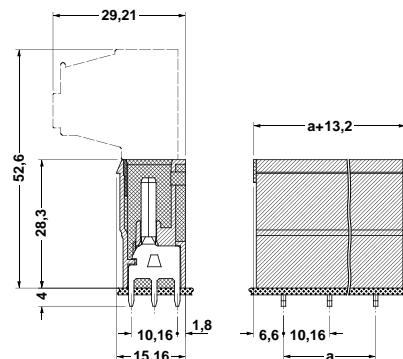
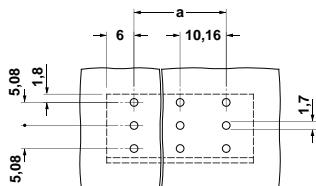


Note:

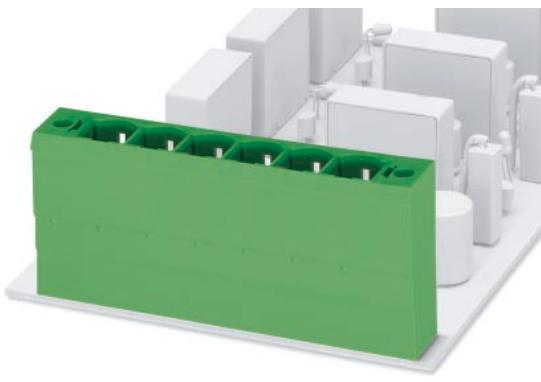
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON headers, 10.16 mm pitch, color: green, plug-in direction vertical to the PCB,	2	10.16	PCV 6/2-G-10,16	19 22 48 8	50
	3	20.32	PCV 6/3-G-10,16	19 22 49 1	
	4	30.48	PCV 6/4-G-10,16	19 22 50 1	
	5	40.64	PCV 6/5-G-10,16	19 22 51 4	
	6	50.80	PCV 6/6-G-10,16	19 22 52 7	
	7	60.96	PCV 6/7-G-10,16	19 22 53 0	
	8	71.12	PCV 6/8-G-10,16	19 22 54 3	
	9	81.28	PCV 6/9-G-10,16	19 22 55 6	
(1) Coding profile , is inserted into the recess on the plug and header, insulating material: red			CP-HCC 4	16 00 02 7	100
(2) Marker card , with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks			SK 10/5 (see COMBICON catalog)		
Technical data					
Dimensions				see description	
Pitch		[mm]		10.16	
Hole diameter		[mm]		1.7	
Pin dimensions		[mm]x[mm]		1.0 x 1.2	
Technical data in accordance with IEC/ DIN VDE					
Insulating material group				I	
Surge voltage category / contamination class			III / 3	III / 2	II / 2
Rated voltage		[V]	630 ¹⁾	1000	1000
Rated surge voltage		[kV]	6	8	8
Nominal current / cross section		[A]/[mm ²]		41 / -	
Maximum load current / cross section		[A]/[mm ²]		41 / -	
Connection capacity					
Solid / stranded / conductor sizes		[mm ²]/[mm ²]/AWG		-	
Stranded with ferrule without / with plastic sleeve		[mm ²]		-	
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm ²]		-	
Stranded with ferrule with plastic sleeve		[mm ²]		-	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		-	
Stripping length		[mm]		-	
Internal cylindrical gauge (IEC 60 947-1)					
Thread				-	
Torque		[Nm]		-	
Insulating material					
Inflammability class in acc. with UL 94				PA	
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG CSA:[V]/[A]/AWG			300 / 41 / -	
				-	

¹⁾ 1000 V on printed circuit board.



**PCV 6/...-GF-10,16
with Threaded Flange
10.16 mm Pitch**

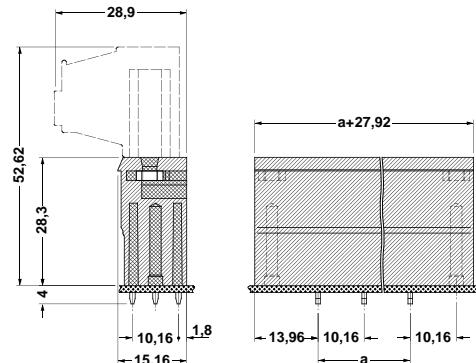
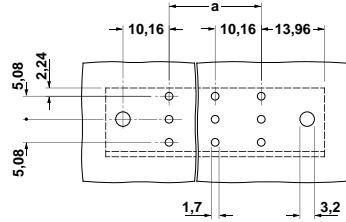


Note:

COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON headers,					
10.16 mm pitch, color: green, plug-in direction vertical to the PCB, with threaded flange	2	10.16	PCV 6/2-GF-10,16	19 22 56 9	50
	3	20.32	PCV 6/3-GF-10,16	19 22 57 2	
	4	30.48	PCV 6/4-GF-10,16	19 22 58 5	
	5	40.64	PCV 6/5-GF-10,16	19 22 59 8	
	6	50.80	PCV 6/6-GF-10,16	19 22 60 8	
	7	60.96	PCV 6/7-GF-10,16	19 22 61 1	
	8	71.12	PCV 6/8-GF-10,16	19 22 62 4	
(1) Coding profile , is inserted into the recess on the plug and header, insulating material: red			CP-HCC 4	16 00 02 7	100
(2) Marker card , with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks			SK 10/5 (see COMBICON catalog)		
Technical data					
Dimensions				see description	
Pitch		[mm]		10.16	
Hole diameter		[mm]		1.7	
Pin dimensions		[mm]x[mm]		1.0 x 1.2	
Technical data in accordance with IEC/ DIN VDE					
Insulating material group		–		I	
Surge voltage category / contamination class		–/–	III / 3	III / 2	II / 2
Rated voltage		[V]	630 ¹⁾	1000	1000
Rated surge voltage		[kV]	6	8	8
Nominal current / cross section		[A]/[mm ²]		41 / –	
Maximum load current / cross section		[A]/[mm ²]		41 / –	
Connection capacity					
Solid / stranded / conductor sizes		[mm ²]/[mm ²]/AWG		–	
Stranded with ferrule without / with plastic sleeve		[mm ²]		–	
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm ²]		–	
Stranded with ferrule with plastic sleeve		[mm ²]		–	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		–	
Stripping length		[mm]		–	
Internal cylindrical gauge (IEC 60 947-1)					
Thread				–	
Torque		[Nm]		–	
Insulating material					
Inflammability class in acc. with UL 94				PA	
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG CSA:[V]/[A]/AWG			300 / 41 / –	
				–	

¹⁾ 1000 V on printed circuit board.

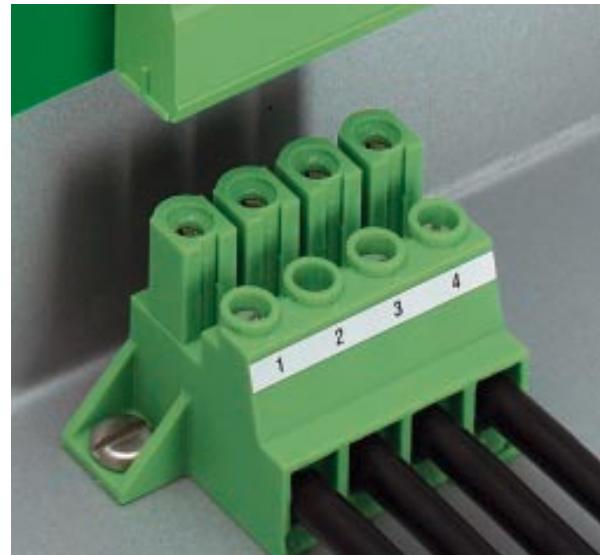


POWER COMBICON Plug-In Block for Direct Mounting, 10.16 mm Pitch

All electronic components are pluggable and easy to maintain. The plug is not connected to the PCB, however, but vice versa.

Plug-in blocks PCU 6/...-STD-10,16 with a screw connection and vertical plug-in direction have a base plate with two mounting ears for screwing onto mounting plates or into component housings. They are available with 2 to 9 positions and a 10.16 mm pitch.

The self-adhesive marker cards SK 10/5 are used for labeling (see COMBICON catalog)



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

10.16 mm Pitch



Note:

COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of positions	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON plug-in block, 10.16 mm pitch, color: green	2	10.16	PCU 6/2-STD-10,16	19 22 63 7	50
	3	20.32	PCU 6/3-STD-10,16	19 22 64 0	
	4	30.48	PCU 6/4-STD-10,16	19 22 65 3	
	5	40.64	PCU 6/5-STD-10,16	19 22 66 6	
	6	50.80	PCU 6/6-STD-10,16	19 22 67 9	
	7	60.96	PCU 6/7-STD-10,16	19 22 68 2	
	8	71.12	PCU 6/8-STD-10,16	19 22 69 5	
	9	81.28	PCU 6/9-STD-10,16	19 22 70 5	
(1) Coding profile , is inserted into the recess on the plug and header, insulating material: red			CP-HCC 4	16 00 02 7	100
(2) Marker card , with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks			SK 10/5 (see COMBICON catalog)		
(3) Screwdriver , blade: 1.0 x 4.0 x 100 mm, length: 200 mm			SZS 1,0 x 4,0	12 05 06 6	10
Technical data					
Dimensions				see description	
Pitch		[mm]		10.16	
Hole diameter		[mm]		—	
Pin dimensions		[mm]x[mm]		—	
Technical data in accordance with IEC/ DIN VDE					
Insulating material group		—		I	
Surge voltage category / contamination class		—/—	III / 3	III / 2	II / 2
Rated voltage		[V]	1000	1000	1000
Rated surge voltage		[kV]	8	8	8
Nominal current / cross section		[A]/[mm ²]		41 / 6.0	
Maximum load current / cross section		[A]/[mm ²]		41 / 6.0	
Connection capacity					
Solid / stranded / conductor sizes		[mm ²]/[mm ²]/AWG		0.5 - 10.0 / 0.5 - 6.0 / 20 - 7	
Stranded with ferrule without / with plastic sleeve		[mm ²]		0.5 - 6.0 / 0.5 - 6.0	
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm ²]		0.5 - 6.0 / 0.5 - 6.0	
Stranded with ferrule with plastic sleeve		[mm ²]		0.5 - 2.5	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		0.5 - 4.0	
Stripping length		[mm]		12	
Internal cylindrical gauge (IEC 60 947-1)					
Thread				A 5	
Torque		[Nm]		M 4	
Insulating material				1.2 - 1.5	
Inflammability class in acc. with UL 94				PA	
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes		UL/CUL:[V]/[A]/AWG		—	
		CSA:[V]/[A]/AWG		—	

