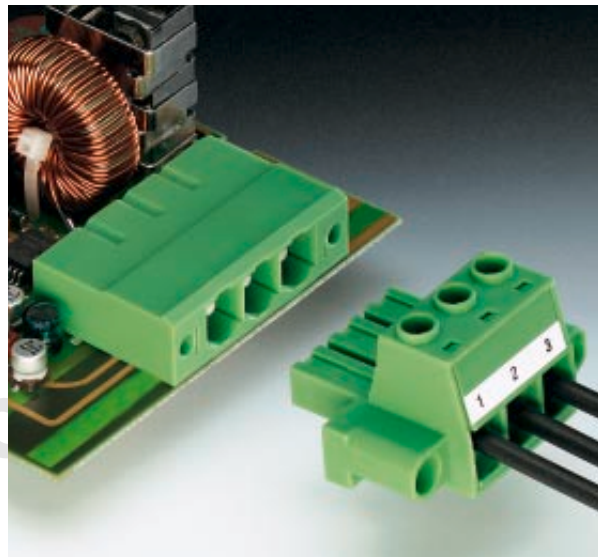


POWER COMBICON Plugs and Headers PC 6/... for Currents up to 41 A, 10.16 mm Pitch

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

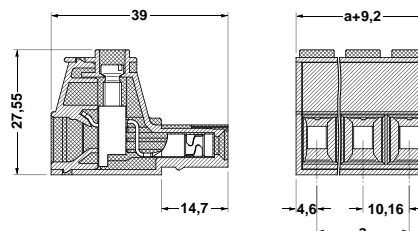
10.16 mm Pitch



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	
(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			see description		
Dimensions			10.16		
Pitch	[mm]		-		
Hole diameter	[mm]		-		
Pin dimensions	[mm]x[mm]		-		
Technical data in accordance with IEC/ DIN VDE					
Insulating material group			III / 3	III / 2	II / 2
Surge voltage category / contamination class	-/-		1000	1000	1000
Rated voltage	[V]		8	8	8
Rated surge voltage	[kV]		41 / 6.0		
Nominal current / cross section	[A]/[mm ²]		41 / 6.0		
Maximum load current / cross section	[A]/[mm ²]				
Connection capacity			0.5 - 10.0 / 0.5 - 6.0 / 20 - 7		
Solid / stranded / conductor sizes	[mm ²]/[mm ²]/AWG		0.5 - 6.0 / 0.5 - 6.0		
Stranded with ferrule without / with plastic sleeve	[mm ²]				
Multiple connection (2 conductors with same cross section)			0.5 - 6.0 / 0.5 - 6.0		
Solid / stranded	[mm ²]		0.5 - 2.5		
Stranded with ferrule with plastic sleeve	[mm ²]		0.5 - 4.0		
Stranded with TWIN ferrule with plastic sleeve	[mm ²]		12		
Stripping length	[mm]		A 5		
Internal cylindrical gauge (IEC 60 947-1)			M 4		
Thread			1.2 - 1.5		
Torque	[Nm]		PA		
Insulating material			V0		
Inflammability class in acc. with UL 94			600 / 41 / 20 - 8		
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A]/AWG		-		
	CSA:[V]/[A]/AWG				





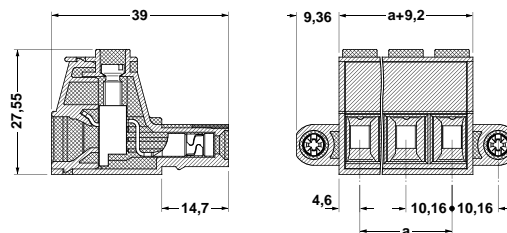
PC 6/...-STF-10,16 with Screw Flange 10.16 mm Pitch



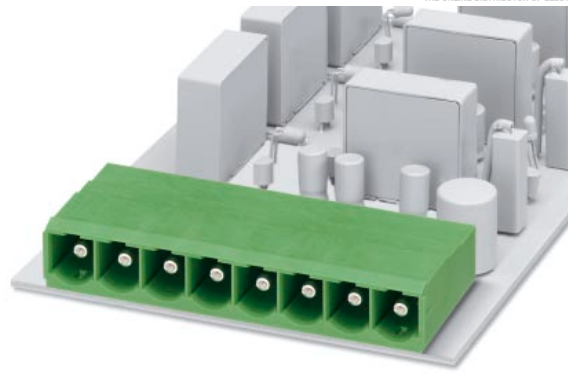
HNote:

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 3 4 5 6 7 8	10.16 20.32 30.48 40.64 50.80 60.96 71.12	PC 6/2-STF-10,16 PC 6/3-STF-10,16 PC 6/4-STF-10,16 PC 6/5-STF-10,16 PC 6/6-STF-10,16 PC 6/7-STF-10,16 PC 6/8-STF-10,16	19 13 57 8 19 13 58 1 19 13 59 4 19 13 60 4 19 13 61 7 19 13 62 0 19 13 63 3	50
(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			see description		
Dimensions			10.16		
Pitch		[mm]	-		
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)			A 5		
Thread			M 4		
Torque		[Nm]	1.2 - 1.5		
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 CSA:[V]/[A]/AWG	600 / 41 / 20 - 8		
			-		




PC 6/...-G-10,16 10.16 mm Pitch

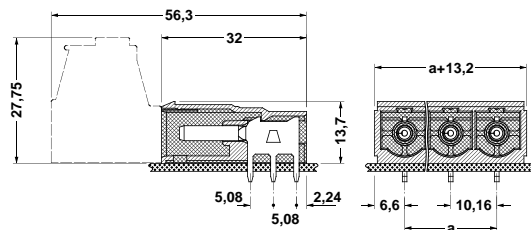
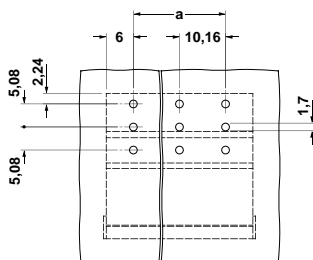


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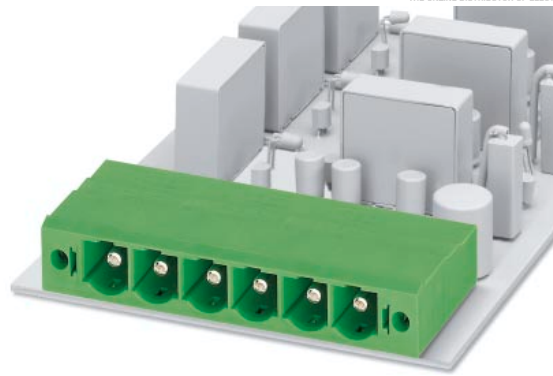
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

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			CP-HCC 4	16 00 02 7	
(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			see description		
Dimensions			10.16		
Pitch			1.7		
Hole diameter			1.0 x 1.2		
Pin dimensions					
Technical data in accordance with IEC/ DIN VDE					
Insulating material group			I		
Surge voltage category / contamination class			III / 3		
Rated voltage			630 ¹⁾		
Rated surge voltage			1000		
Nominal current / cross section			8		
Maximum load current / cross section			41 / -		
			41 / -		
Connection capacity					
Solid / stranded / conductor sizes			-		
Stranded with ferrule without / with plastic sleeve			-		
Multiple connection (2 conductors with same cross section)					
Solid / stranded			-		
Stranded with ferrule with plastic sleeve			-		
Stranded with TWIN ferrule with plastic sleeve			-		
Stripping length			-		
Internal cylindrical gauge (IEC 60 947-1)			-		
Thread			-		
Torque			-		
Insulating material			PA		
Inflammability class in acc. with UL 94			V0		
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes			300 / 41 / -		
UL/CUL:[V]/[A]/AWG			-		
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 

(2) **Marker card**, with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks

Technical data

Dimensions	
Pitch	[mm]
Hole diameter	[mm]
Pin dimensions	[mm]x[mm]

Technical data in accordance with IEC/ DIN VDE

Insulating material group	-
Surge voltage category / contamination class	-/-
Rated voltage	[V]
Rated surge voltage	[kV]
Nominal current / cross section	[A]/[mm ²]
Maximum load current / cross section	[A]/[mm ²]

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

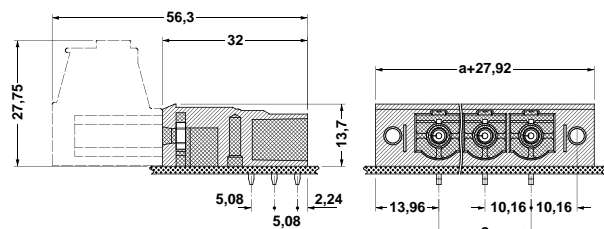
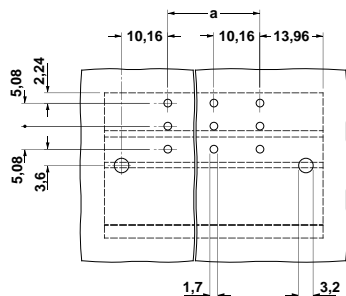
Inflammability class in acc. with UL 94

Approval data (UL/CUL and CSA)

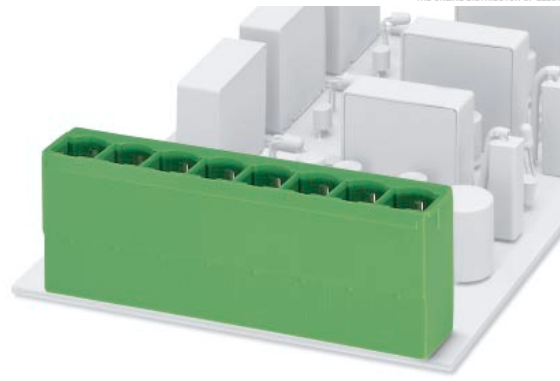
Nominal voltage / current / conductor sizes UL/CUL:[V]/[A]/AWG CSA:[V]/[A]/AWG

see description		
10.16		
1.7		
1.0 x 1.2		
III / 3	I	II / 2
630 ¹⁾	1000	1000
6	8	8
	41 / -	
	41 / -	
	-	
	-	
	-	
	-	
	PA	
	V0	
	300 / 41 / -	
	-	

¹⁾ 1000 V on printed circuit board.



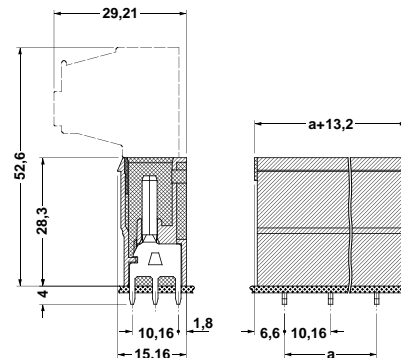
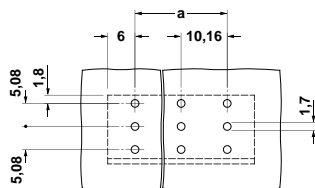
PCV 6/...-G-10,16 10.16 mm Pitch



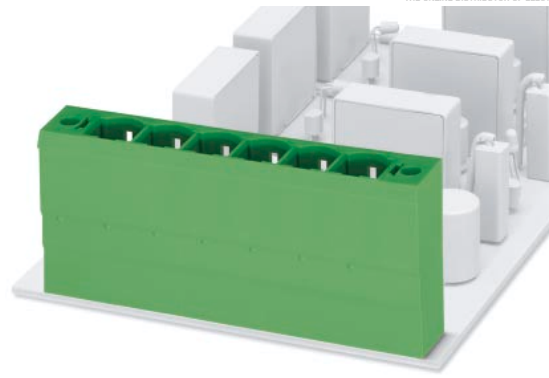
Note:
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

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	
(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			see description		
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 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

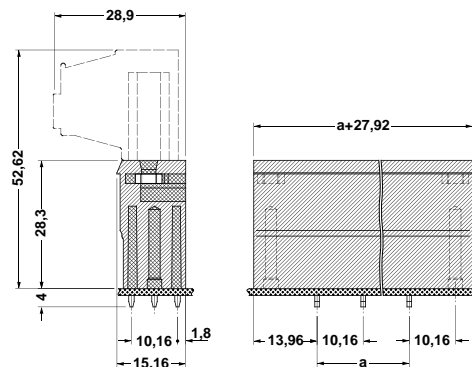
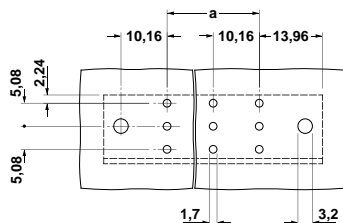


Note:

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	
(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			see description		
Dimensions			10.16		
Pitch [mm]			1.7		
Hole diameter [mm]			1.0 x 1.2		
Pin dimensions [mm]x[mm]					
Technical data in accordance with IEC/ DIN VDE					
Insulating material group			I		
Surge voltage category / contamination class			III / 3		
Rated voltage [V]			III / 2		
Rated surge voltage [kV]			1000		
Nominal current / cross section [A]/[mm ²]			II / 2		
Maximum load current / cross section [A]/[mm ²]			630 ¹⁾		
			1000		
			8		
			41 / -		
			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.



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)





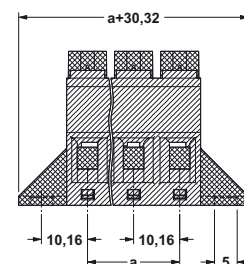
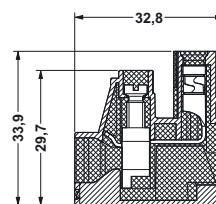
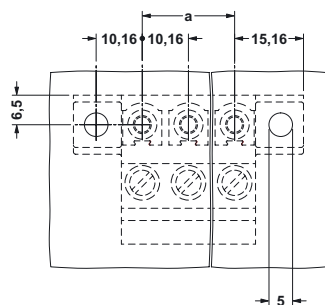
PCU 6/...-STD-10,16

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	
(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			see description		
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		
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)			A 5		
Thread			M 4		
Torque	[Nm]		1.2 - 1.5		
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		-		
	CSA:[V]/[A]/AWG		-		



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