

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).





Description	No. of positions	Dim. a [mm]	Туре	Order No.	Pcs./Pkt.
POWER COMBICON plugs, 10.16 mm pitch, color: green	2 3 4	10.16 20.32 30.48	PC 6/2-ST-10,16 PC 6/3-ST-10,16 PC 6/4-ST-10,16	19 13 50 7 19 13 51 0 19 13 52 3	50
	4 5 6 7	40.64 50.80 60.96	PC 6/5-ST-10,16 PC 6/5-ST-10,16 PC 6/6-ST-10,16 PC 6/7-ST-10,16	19 13 52 3 19 13 53 6 19 13 54 9 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		i and a second	SZS 1,0 x 4,0	12 05 06 6	10
Technical data					
Dimensions			see descri	otion	
Pitch		[mm]	10.16		
Hole diameter		[mm	-		
Pin dimensions		x[mm]			
Technical data in accordance with IEC/ D	IN VDE				
Insulating material group		-	I		
Surge voltage category / contamination clas	S	_/_	III / 3 III / 2	II / 2	
Rated voltage		[V]	1000 1000	1000	
Rated surge voltage		[kV]	8 8	8	
Nominal current / cross section		/[mm²]	41 / 6.0		
Maximum load current / cross section	[A]	/[mm²]	41 / 6.0)	
Connection capacity					
Solid / stranded / conductor sizes	[mm ²]/[mm ²]		0.5 - 10.0 / 0.5 -		
Stranded with ferrule without / with plastic sl		[mm ²]	0.5 - 6.0 / 0.	5 -6.0	
Multiple connection (2 conductors with s	ame cross secti				
Solid / stranded		[mm ²]	0.5 - 6.0 / 0.5		
Stranded with ferrule with plastic sleeve		[mm ²]	0.5 - 2.4	-	
Stranded with TWIN ferrule with plastic slee	ve	[mm ²]	0.5 - 4.)	
Stripping length		[mm]	12		
Internal cylindrical gauge (IEC 60 947-1)			A 5		
Thread		[h]]	M 4	-	
Torque		[Nm]	1.2 - 1.4 PA	0	
Insulating material					
Inflammability class in acc. with UL 94 Approval data (UL/CUL and CSA)			V0		
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A] CSA:[V]/[A]		600 / 41 / 2	0 - 8	



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Description	No. of positions	Dim. a [mm]	Туре	Order No.	Pcs./Pkt.
POWER COMBICON plugs , 10.16 mm pitch, color: green, with screw flange	2 3 4	10.16 20.32 30.48	PC 6/2-STF-10,16 PC 6/3-STF-10,16 PC 6/4-STF-10,16	19 13 57 8 19 13 58 1 19 13 59 4	50
	5 6 7	40.64 50.80 60.96	PC 6/5-STF-10,16 PC 6/6-STF-10,16 PC 6/7-STF-10,16	19 13 60 4 19 13 61 7 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			СР-НСС 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		C. C.	SZS 1,0 x 4,0	12 05 06 6	10
Technical data					
Dimensions			see descript	tion	
Pitch		[mm]	10.16		
Hole diameter		[mm	-		
Pin dimensions		x[mm]			
Technical data in accordance with IEC/ D	NVDE				
Insulating material group		_	I		
Surge voltage category / contamination class	S	_/_	III / 3 III / 2	II / 2	
Rated voltage		[V]	1000 1000	1000	
Rated surge voltage		[kV]	8 8	8	
Nominal current / cross section		/[mm²]	41 / 6.0		
Maximum load current / cross section	[A]/	[mm²]	41 / 6.0		
Connection capacity	[0/00 7	
Solid / stranded / conductor sizes	[mm²]/[mm²]	/AWG [mm²]	0.5 - 10.0 / 0.5 - 6. 0.5 - 6.0 / 0.5		
Stranded with ferrule without / with plastic slo Multiple connection (2 conductors with si			0.5 - 6.0 / 0.5	-0.0	
Solid / stranded	ame cross secti	[mm ²]	0.5 - 6.0 / 0.5	6.0	
Stranded with ferrule with plastic sleeve		[mm ²]	0.5 - 0.07 0.5 0.5 - 2.5	- 0.0	
Stranded with TWIN ferrule with plastic sleeve	ie in the second se	[mm ²]	0.5 - 2.3		
Stripping length	0	[mm]	12		
Internal cylindrical gauge (IEC 60 947-1)		found	A 5		
Thread			M4		
Torque		[Nm]	1.2 - 1.5		
Insulating material		(· · · · ·]	PA		
Inflammability class in acc. with UL 94			VO		
Approval data (UL/CUL and CSA)					
Nominal voltage / current / conductor sizes	UL/CUL:[V]/[A] CSA:[V]/[A]		600 / 41 / 20	- 8	



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Description	No. of positions	Dim. a [mm]	Туре		Order No.	Pcs./Pkt.
POWER COMBICON headers,						
10.16 mm pitch, color: green, plug-in direction parallel to the PCB	2 3 4	10.16 20.32 30.48	PC 6/2-G-10,16 PC 6/3-G-10,16 PC 6/4-G-10,16		19 13 64 6 19 13 65 9 19 13 66 2	50
	5 6 7	40.64 50.80 60.96	PC 6/5-G-10,16 PC 6/6-G-10,16 PC 6/7-G-10,16		19 13 67 5 19 13 68 8 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	100
(2) Marker card , with 10 pcs. 10-section marker strips, white, self-adhesive, for 100 terminal blocks			SK 10/5 (see COMBICON cat	alog)		
Technical data						
Dimensions Pitch		[mm]	Se	ee description 10.16	n	
Hole diameter Pin dimensions		[mm x[mm]		1.7 1.0 x 1.2		
Technical data in accordance with IEC	/ DIN VDE					
Insulating material group		_		I		
Surge voltage category / contamination c	lass	-/-	III / 3	III / 2	II / 2	
Rated voltage		[V]	630 ¹)	1000	1000	
Rated surge voltage	[4 1	[kV]	6	8	8	
Nominal current / cross section		/[mm²] /[41 / -		
Maximum load current / cross section Connection capacity	[A]	/[mm²]		41 / -		
Solid / stranded / conductor sizes	[mm²]/[mm²]					
Stranded with ferrule without / with plastic		[mm ²]		_		
Multiple connection (2 conductors with			·			
Solid / stranded		[mm ²]		_		
Stranded with ferrule with plastic sleeve		[mm ²]		_		
Stranded with TWIN ferrule with plastic sl	eeve	[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 size	es UL/CUL:[V]/[A] CSA:[V]/[A]			300 / 41 / -		

¹) 1000 V on printed circuit board.





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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]	Туре		Order No.	Pcs./Pkt.
POWER COMBICON headers.						
10.16 mm pitch, color: green, plug-in direction parallel to the PCB, with threaded flange	2 3 4	10.16 20.32 30.48	PC 6/2-GF-10,16 PC 6/3-GF-10,16 PC 6/4-GF-10,16		19 13 71 4 19 13 72 7 19 13 73 0	50
	5 6 7	40.64 50.80 60.96	PC 6/5-GF-10,16 PC 6/6-GF-10,16 PC 6/7-GF-10,16		19 13 74 3 19 13 75 6 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 ca	atalog)		
Technical data						
Dimensions Pitch		[mm]	5	see descriptio 10.16	n	
Hole diameter		[mm]		1.7		
Pin dimensions	[mm]	x[mm]		1.0 x 1.2		
Technical data in accordance with IEC				-		
Insulating material group		-		I		
Surge voltage category / contamination c	lass	_/_	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]	/[mm²]		41 / -		
Maximum load current / cross section	[A]	/[mm²]		41 / -		
Connection capacity						
Solid / stranded / conductor sizes	[mm ²]/[mm ²]	/AWG		-		
Stranded with ferrule without / with plastic		[mm ²]		-		
Multiple connection (2 conductors with	n same cross secti					
Solid / stranded		[mm ²]		-		
Stranded with ferrule with plastic sleeve		[mm ²]		-		
Stranded with TWIN ferrule with plastic sl	eeve	[mm ²]		-		
Stripping length		[mm]		-		
Internal cylindrical gauge (IEC 60 947-	1)			-		
Thread				-		
Torque		[Nm]		-		
Insulating material				PA V0		
Inflammability class in acc. with UL 94				VU		
Approval data (UL/CUL and CSA) Nominal voltage / current / conductor size	s UL/CUL:[V]/[A] CSA:[V]/[A]			300 / 41 / -		

¹) 1000 V on printed circuit board.





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Description	No. of positions	Dim. a [mm]	Туре	Order No.	Pcs./Pkt.
POWER COMBICON headers,					
10.16 mm pitch, color: green, plug-in direction vertical to the PCB,	2 3 4	10.16 20.32 30.48	PCV 6/2-G-10,16 PCV 6/3-G-10,16 PCV 6/4-G-10,16	19 22 48 8 19 22 49 1 19 22 50 1	50
	5 6 7	40.64 50.80 60.96	PCV 6/5-G-10,16 PCV 6/6-G-10,16 PCV 6/7-G-10,16	19 22 51 4 19 22 52 7 19 22 53 0	
	8 9	71.12 81.28	PCV 6/8-G-10,16 PCV 6/9-G-10,16	19 22 54 3 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 Pitch Hole diameter		[mm] [mm	10	escription 0.16 1.7	
Pin dimensions		x[mm]	1.0	x 1.2	
Technical data in accordance with IEC	/ DIN VDE				
Insulating material group		_			
Surge voltage category / contamination c	lass	-/- D/1		I/2 II/2	
Rated voltage Rated surge voltage		[V] [kV]	6	000 1000 8 8	
Nominal current / cross section	۲۵۱	[mm ²]	-	1/-	
Maximum load current / cross section		/[mm ²]	-	1/-	
Connection capacity	U 17	[]		. /	
Solid / stranded / conductor sizes	[mm²]/[mm²]	/AWG		_	
Stranded with ferrule without / with plastic		[mm ²]		-	
Multiple connection (2 conductors with					
Solid / stranded		[mm ²]		-	
Stranded with ferrule with plastic sleeve		[mm ²]		-	
Stranded with TWIN ferrule with plastic sl	eeve	[mm²]		-	
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 size	es UL/CUL:[V]/[A] CSA:[V]/[A]		300	/ 41 / -	
1) 1000 V on printed circuit board					

¹) 1000 V on printed circuit board.





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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]	Туре		Order No.	Pcs./Pkt.
POWER COMBICON headers.						
10.16 mm pitch, color: green, plug-in direction vertical to the PCB, with threaded flange	2 3 4	10.16 20.32 30.48	PCV 6/2-GF-10,16 PCV 6/3-GF-10,16 PCV 6/4-GF-10,16		19 22 56 9 19 22 57 2 19 22 58 5	50
	5 6 7	40.64 50.80 60.96	PCV 6/5-GF-10,16 PCV 6/6-GF-10,16 PCV 6/7-GF-10,16		19 22 59 8 19 22 60 8 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 ca	italog)		
Technical data						
Dimensions			5	ee descriptio	n	
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 cl	ass	_/_	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]	[mm²]		41 /		
Maximum load current / cross section	[A]	[mm²]		41 / -		
Connection capacity						
Solid / stranded / conductor sizes	[mm ²]/[mm ²]	/AWG		-		
Stranded with ferrule without / with plastic		[mm²]		-		
Multiple connection (2 conductors with	same cross secti	on)				
Solid / stranded		[mm²]		-		
Stranded with ferrule with plastic sleeve		[mm²]		-		
Stranded with TWIN ferrule with plastic sle	eeve	[mm²]		-		
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 size	s UL/CUL:[V]/[A] CSA:[V]/[A]			300 / 41 / - _		

1) 1000 V on printed circuit board.





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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-10,16with a screw

Plug-in blocks PCU 6/...-STD-10,16with 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)





Description	No. of positions	Dim. a [mm]	Туре	Order No.	Pcs./Pkt.
POWER COMBICON plug-in block , 10.16 mm pitch, color: green	2 3 4	10.16 20.32 30.48	PCU 6/2-STD-10,16 PCU 6/3-STD-10,16 PCU 6/4-STD-10,16	19 22 63 7 19 22 64 0 19 22 65 3	50
	5 6 7	40.64 50.80 60.96	PCU 6/5-STD-10,16 PCU 6/6-STD-10,16 PCU 6/7-STD-10,16	19 22 66 6 19 22 67 9 19 22 68 2	
	8 9	71.12 81.28	PCU 6/8-STD-10,16 PCU 6/9-STD-10,16	19 22 69 5 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 Technical data		and the second s	SZS 1,0 x 4,0	12 05 06 6	10
Dimensions				lion	
Pitch		[mm]	see descript 10.16		
Hole diameter		[mm]	_		
Pin dimensions		x[mm]			
Technical data in accordance with IEC	/ DIN VDE				
Insulating material group Surge voltage category / contamination c	1255	_ _/_	 /3 /2	II / 2	
Rated voltage	1055	_,_ [V]	1000 1000	1000	
Rated surge voltage		[kV]	8 8	8	
Nominal current / cross section	[A]	/[mm²]	41 / 6.0		
Maximum load current / cross section	[A]	[mm²]	41 / 6.0		
Connection capacity					-
Solid / stranded / conductor sizes	[mm²]/[mm²]		0.5 - 10.0 / 0.5 - 6		lo l
Stranded with ferrule without / with plastic		[mm ²]	0.5 - 6.0 / 0.5	-6.0	
Multiple connection (2 conductors with Solid / stranded	n same cross secti	[mm ²]	0.5 - 6.0 / 0.5	- 6 0	Ita
Stranded with ferrule with plastic sleeve		[mm ²]	0.5 - 0.67 0.5		Ī
Stranded with TWIN ferrule with plastic sl	eeve	[mm ²]	0.5 - 4.0		nix
Stripping length		[mm]	12		oe
Internal cylindrical gauge (IEC 60 947-	1)		A 5		
Thread			M 4		§
Torque Insulating material		[Nm]	<u>1.2 - 1.5</u> PA		{
Inflammability class in acc. with UL 94			V0		http://www.phoenixcontact.com
Approval data (UL/CUL and CSA)					<u>غ</u>
Nominal voltage / current / conductor size	es UL/CUL:[V]/[A] CSA:[V]/[A]				9540-02
-+ 10,16 ∳ 10,16	- 15,16- - +		≺ 32,8 +	• a+30,32 -	NR: 509954
				+ 10,16 + + 10,11	ž
	5			⊸ a—	+ -+15 ⊧- ┟ ©







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