

POWER COMBICON spring-cage connector 7.62 mm pitch SPC 5/...-ST(F)-7,62

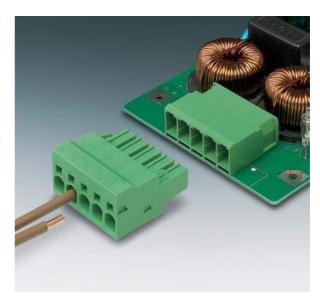
Especially in the high current range, the following is true for conductor connection: Time is money. The new spring-cage plug SPC 5 saves both, as due to the quick spring-cage connection, it reduces wiring and mounting work. With the innovative SPC 5-COMBI springs, large conductor cross sections up to 10 mm² solid or 6 mm² stranded with ferrule can be plugged in with moderate force, contacting without any tools. This means extremely fast conductor connection according to the direct plug-in principle together with high ergonomy and high performance.

The nominal current is 41 A and the unlimited UL voltage of 600 V allows for problem-free equipment certification in the industrial Use Group C. As in all COMBICON power products, the integrated double steel spring provides maximum contact safety even at high power and temperature fluctuations.

The SPC 5 plug is compatible with the PC 4 header

As is normal in the COMBICON power range, the SPC 5 as STF-SH version likewise offers a professional shield connection with strain relief for the cable harness. In the compact pitch of 7.62 mm, the plug connector is available in 2 to 12 number of positions.

Versions with screw flange (-STF) increase the contact safety especially during vibrations. The keying profile that is inserted in the slot on the connector and in the PC 4 header, is reliable polarity protection especially for applications where several headers are placed next to each other.



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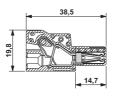
Note

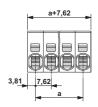
In compliance with DIN EN 61984, COMBICON plug connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

POWER COMBICON Spring-cage connector SPC 5/...-ST-7,62 7.62 mm pitch



Description	No. of pos.	Dim. a [mm]	Туре		Order No.	Pcs./Pkt.	
POWER COMBICON spring-cage plugs, 7.62 mm pitch, color: green	2	7.62	SPC 5/ 2-ST-7,62		1996016	50	
7.62 mm pitch, color. green	3	15.24	SPC 5/ 2-31-7,62 SPC 5/ 3-ST-7.62		1996029	50	
	4	22.86	SPC 5/ 4-ST-7,62		1996032	50	
	5	30.48	SPC 5/ 5-ST-7,62		1996045	50	
	6	38.10	SPC 5/ 6-ST-7,62		1996058	50	
	7	45.72	SPC 5/ 7-ST-7,62		1996061	50	
	8	53.34	SPC 5/ 8-ST-7,62		1996074	50	
	9	60.96	SPC 5/ 9-ST-7,62		1996087	50	
	10	68.58	SPC 5/10-ST-7,62		1996090	50	
	11	76.20	•			50	
	12	83.82	SPC 5/11-ST-7,62 SPC 5/12-ST-7,62		1996100 1996113	50	
Keying profile, is inserted into the slot on the and header, red insulating material	plug		CP-HCC 4		1600027	100	
Screwdriver, to actuate the COMBI spring			SZF 1 - 0,6 x 3,5		1204517	10	
Marker card, with 12 pcs., 10-section marker strips, white, self-adhesive, for 120 terminal blocks			SK 7,62/3,8 (see COMBICON	I catalog)			
Technical data						1	
Dimensions				see description			
Pitch		[mm]		7.62			
Technical data in accordance with IEC/ DIN Insulating material group	VDE	_		1			
Surge voltage category / contamination class		-/-	III/3	III/2	II / 2		
Rated voltage		[V]	1000	1000	1000		
Rated surge voltage		[kV]	8	8	6		
Nominal current / cross section	[/	A] / [mm²]		32 ¹) / 6			
Maximum load current / cross section		A] / [mm²]					
Connection capacity	_	-		•			
Solid / stranded / conductor sizes	[mm²] / [mn	n²] / AWG	G 0.2 - 10 / 0.2 - 6 / 24 - 8				
Stranded with ferrule without / with plastic slee	ve	[mm ²]	0.2	25 - 6 / 0.25	- 4		
Multiple connection (2 conductors with san	ne cross section				·		
Solid / stranded		[mm²]	-/-				
Stranded with ferrules without plastic sleeve		[mm²]	-				
Stranded with TWIN ferrule with plastic sleeve		[mm ²]	0.25 - 1.5				
Stripping length		[mm]	15				
Internal cylindrical gage (IEC 60947-1), a x b	o / diameter	[mm]	2	1.3 x 4.0 / 4	.0		
Screw thread				•			
Tightening torque		[Nm]					
Insulation material			PA				
Inflammability class acc. to UL 94				V0			
Approval data (UL/CUL and CSA)	p / -						
Usegroup B		A] / AWG	on request				
			on request				
Usegroup C Usegroup D		A] / AWG A] / AWG		on request			

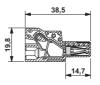


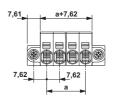


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POWER COMBICON spring-cage plugs, 7.62 mm pitch, color: green	2					
	3 4	7.62 15.24 22.86	SPC 5/ 2-STF-7,62 SPC 5/ 3-STF-7,62 SPC 5/ 4-STF-7,62	1996126 1996139 1996142	50 50 50	
	5 6 7	30.48 38.10 45.72	SPC 5/ 5-STF-7,62 SPC 5/ 6-STF-7,62 SPC 5/ 7-STF-7,62	1996155 1996168 1996171	50 50 50	
	8 9 10	53.34 60.96 68.58	SPC 5/ 8-STF-7,62 SPC 5/ 9-STF-7,62 SPC 5/10-STF-7,62	1996184 1996197 1996207	50 50 50	
	11 12	76.20 83.82	SPC 5/11-STF-7,62 SPC 5/12-STF-7,62	1996210 1996223	50 50	
Keying profile, is inserted into the slot on the pla and header, red insulating material	лg		CP-HCC 4	1600027	100	
Screwdriver, to actuate the COMBI spring			SZF 1 - 0,6 x 3,5	1204517	10	
Marker card, with 12 pcs., 10-section marker strips, white, self-adhesive, for 120 terminal blocks			SK 7,62/3,8 (see COMBICON catalog)			
Technical data						
Dimensions Pitch [mm]			see description 7.62			
Technical data in accordance with IEC/ DIN VI Insulating material group	DE	_	1			
Surge voltage category / contamination class Rated voltage		-/- [V]	III/3 III/2 1000 1000	II / 2 1000		
Rated surge voltage Nominal current / cross section Maximum load current / cross section		[kV] A] / [mm²] A] / [mm²]	8 8 32 ¹)/1 41 ¹)/1			
Connection capacity Solid / stranded / conductor sizes Stranded with ferrule without / with plastic sleeve	[mm²] / [mn	n²] / AWG [mm²]				
Multiple connection (2 conductors with same Solid / stranded		on) [mm²]	-/-			
Stranded with ferrules without plastic sleeve Stranded with TWIN ferrule with plastic sleeve Stripping length		[mm²] [mm²] [mm]	- 0.25 - 1.5 15			
Internal cylindrical gage (IEC 60947-1), $a \times b / Screw thread$	diameter	[mm] _	4.3 x 4.0 /	4.0		
Tightening torque Insulation material		[Nm]	PA V0			
Inflammability class acc. to UL 94 Approval data (UL/CUL and CSA) Usegroup B	[V] / [A] / AWG	on reque	est		
Usegroup C Usegroup D	[V] / [A] / AWG A] / AWG	on reque on reque ') Observe dera	est est		

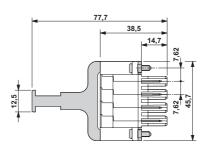




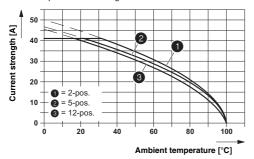
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7.62 mm pitch, color: green	2	7.62				
	3	15.24				
	4	22.86	SPC 5/ 4-STF-SH-7,62	1704071	50	
	5	30.48				
	6	38.10				
	7	45.72				
	8	53.34				
	9	60.96				
	10	68.58				
	11	76.20				
	12	83.82				
Keying profile, is inserted into the slot on the pl and header, red insulating material	ug		CP-HCC 4	1600027	100	
Screwdriver, to actuate the COMBI spring			SZF 1 - 0,6 x 3,5	1204517	10	
Marker card, with 12 pcs., 10-section marker strips, white, self-adhesive, for 120 terminal blocks			SK 7,62/3,8 (see COMBICON catalog)			
Technical data				11		
Dimensions			see description			
Pitch		[mm]	7.62			
Technical data in accordance with IEC/ DIN V Insulating material group	DE	_	1			
Surge voltage category / contamination class		-/-	III/3 III/2	11/2		
Rated voltage		[V]	1000 1000	1000		
Rated surge voltage		[kV]	8 8	6		
Nominal current / cross section	T.	A] / [mm²]	32 ¹) / 6	ŭ		
Maximum load current / cross section		A] / [mm²]	41 1) / 10			
Connection capacity	Ľ	47 []	//			
Solid / stranded / conductor sizes	[mm²] / [mn	n²1 / AWG	0.2 - 10 / 0.2 - 6	/ 24 - 8		
Stranded with ferrule without / with plastic sleeve		[mm²]	0.25 - 6 / 0.25			
Multiple connection (2 conductors with same						
Solid / stranded		[mm²]	-/-			
Stranded with ferrules without plastic sleeve		[mm²]	-			
Stranded with TWIN ferrule with plastic sleeve		[mm²]	0.25 - 1.5			
Stripping length		[mm]	15			
Internal cylindrical gage (IEC 60947-1), a x b /	diameter	[mm]	L			
Screw thread			-			
Tightening torque		[Nm]	-			
Insulation material			PA			
Inflammability class acc. to UL 94			VO			
Approval data (UL/CUL and CSA)						
Usegroup B	[V] / [A] / AWG	on request	t		
Usegroup C		A] / AWG	on request			
Usegroup D		A] / AWG	on request			
			¹) Observe deratin			



Derating curve
Type: SPC 5/...-ST-7,62 with PC 4/...-G-7,62
Connected conductor cross section = 10 mm²
Reduction factor = 0.8
Number of positions = see diagram



Derating curve
Type: SPC 5/...-ST-7,62 with PC 4/...-G-7,62
Connected conductor cross section = 6 mm²
Reduction factor = 0.8
Number of positions = see diagram

