# imall

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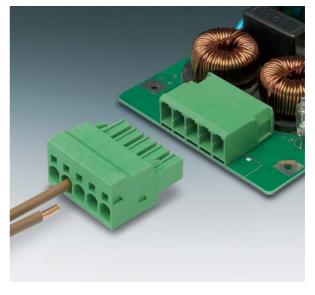
## POWER COMBICON spring-cage connector 7.62 mm pitch SPC 5/...-ST(F)-7,62

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 mm<sup>2</sup> solid or 6 mm<sup>2</sup> 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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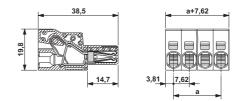
#### Note:

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
	3	15.24	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	SPC 5/11-ST-7.62		1996100	50
	12	83.82	SPC 5/12-ST-7,62		1996113	50
Keying profile, is inserted into the slot on the p and header, red insulating material	lug		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	l catalog)		
Technical data						
Dimensions			s	ee description	on	
Pitch		[mm]	nm] 7.62			
Technical data in accordance with IEC/ DIN V	/DE					
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	6	
Nominal current / cross section	[/	4] / [mm²]		32 <sup>1</sup> ) / 6		
Maximum load current / cross section	[/	4] / [mm²]		41 <sup>1</sup> ) / 10		
Connection capacity						
Solid / stranded / conductor sizes	[mm²] / [mn	ո²] / AWG		10/0.2-6/		
Stranded with ferrule without / with plastic sleeve		[mm²]	0.:	25 - 6 / 0.25	- 4	
Multiple connection (2 conductors with same	e cross sectio					
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]	4	4.3 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)						
Usegroup B		A] / AWG		on request		
Usegroup C		A] / AWG		on request		
Usegroup D	[V] / [	A] / AWG		on request		
			<sup>1</sup> ) Obs	erve deratin	g curve	

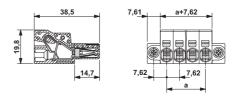


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## POWER COMBICON Spring-cage connector SPC 5/...-STF-7,62 7.62 mm pitch



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-STF-7,62	1996126	50	
	3	15.24	SPC 5/ 3-STF-7,62	1996139	50	
	4	22.86	SPC 5/ 4-STF-7,62	1996142	50	
	5	30.48	SPC 5/ 5-STF-7,62	1996155	50	
	6	38.10	SPC 5/ 6-STF-7,62	1996168	50	
	7	45.72	SPC 5/ 7-STF-7,62	1996171	50	
	8	53.34	SPC 5/ 8-STF-7.62	1996184	50	
	8	53.34 60.96	SPC 5/ 8-51 F-7,62 SPC 5/ 9-STF-7.62		50	
	10	60.96 68.58	,-	1996197 1996207	50 50	
			SPC 5/10-STF-7,62			
	11	76.20	SPC 5/11-STF-7,62	1996210	50	
	12	83.82	SPC 5/12-STF-7,62	1996223	50	
Keying profile, is inserted into the slot on the p and header, red insulating material	blug		СР-НСС 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	1)		
Technical data						
Dimensions			see desc	ription		
Pitch			7.62			
Technical data in accordance with IEC/ DIN		[mm]	1.02			
Insulating material group	VDL		1			
Surge voltage category / contamination class		_/_	/3    /2	II / 2		
			1000 100			
Rated voltage		[V]				
Rated surge voltage		[kV]	8 8	6		
Nominal current / cross section		A] / [mm²]	32 <sup>1</sup> )			
Maximum load current / cross section	Į,	A] / [mm²]	41 <sup>1</sup> ) /	10		
Connection capacity	[	-21 / 414/0	0.0 10/0.0	0/04 0		
Solid / stranded / conductor sizes	[mm²] / [mn	-	0.2 - 10 / 0.2 - 6 / 24 - 8 0.25 - 6 / 0.25 - 4			
Stranded with ferrule without / with plastic sleev		[mm²]	0.25 - 6 / 0	).25 - 4		
Multiple connection (2 conductors with sam	e cross section	,	,			
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]				
Internal cylindrical gage (IEC 60947-1), a x b	/ diameter	[mm]		/ 4.0		
Screw thread		-				
Tightening torque		[Nm]	-			
Insulation material			PA			
Inflammability class acc. to UL 94			V0			
Approval data (UL/CUL and CSA)						
Usegroup B		A] / AWG	on req			
Usegroup C		A] / AWG	on request			
Usegroup D	D / D / D	A] / AWG	on request			

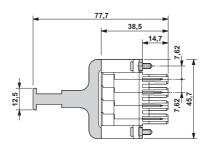


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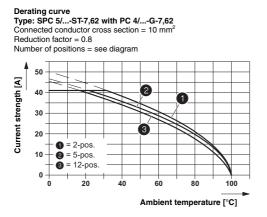
## POWER COMBICON Spring-cage connector SPC 5/...-STF-SH-7,62 7.62 mm pitch



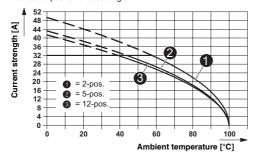
		Dim.	_			
Description	No. of pos.	a	Туре	Order No.	Pcs./Pkt.	
		[mm]				
POWER COMBICON spring-cage plugs,	•	7.00				
7.62 mm pitch, color: green	2	7.62				
	3	15.24		1704074	50	
	4	22.86	SPC 5/ 4-STF-SH-7,62	1704071	50	
	5	30.48				
	6	38.10				
	7	45.72				
	8	53.34				
	9	60.96				
	10	68.58				
	11	76.20				
	12	83.82				
Keying profile, is inserted into the slot on the p and header, red insulating material	blug		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		see description			
Pitch		[mm]	7.62			
Technical data in accordance with IEC/ DIN	VDE					
Insulating material group		,-	 			
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]	41 <sup>1</sup> ) / 10	)		
Connection capacity	_					
Solid / stranded / conductor sizes	[mm²] / [mn	-	0.2 - 10 / 0.2 - 6			
Stranded with ferrule without / with plastic sleev		[mm²]	0.25 - 6 / 0.2	5 - 4		
Multiple connection (2 conductors with same	e cross section					
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]	4.3 x 4.0 /	4.0		
Screw thread		-	<del>_</del>			
Tightening torque		[Nm]	-			
Insulation material			PA			
Inflammability class acc. to UL 94			V0			
Approval data (UL/CUL and CSA)						
Usegroup B	[V] / [	A] / AWG	on reque	st		
Usegroup C		A] / AWG	on request			
Usegroup D		A] / AWG	on request			
			<sup>1</sup> ) Observe derat	ng curve		



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Derating curve Type: SPC 5/...-ST-7,62 with PC 4/...-G-7,62 Connected conductor cross section = 6 mm<sup>2</sup> Reduction factor = 0.8 Number of positions = see diagram



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