

POWER COMBICON spring-cage connector 10.16 mm pitch SPC 16/...-ST(F)-10,16

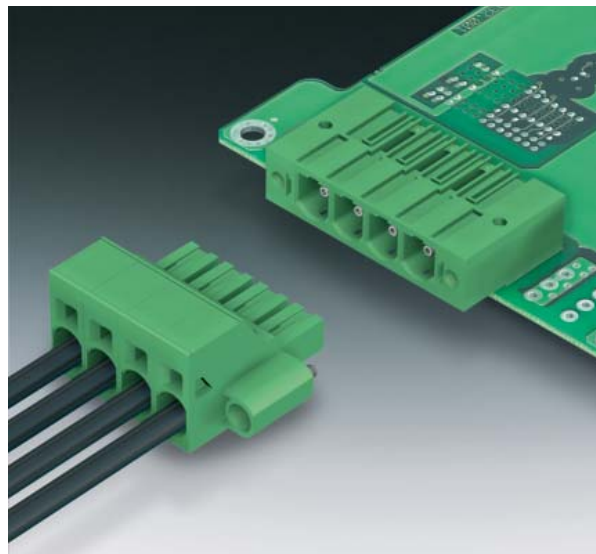
The already familiar PC 16 family is now also available with spring-cage connection. The SPC 16 connection with spring-cage offers the following advantages:

- Time-saving conductor connection with direct connection COMBI spring.
- Stripped solid conductors or stranded conductors up to 16 mm² cross section with ferrule can be contacted with little force without tools.
- Current carrying capacity up to 76 A and unlimited 600 V UL certification in a pitch of 10.16 mm can be used internationally without problems. For exact current values, observe the derating curves.
- The springs are opened with the screwdriver.

The SPC 16 spring-cage connector is compatible with the already existing PC 6-16 headers and is available in 2 to 9 number of positions.

The SPC 16-STF versions with fixing screw flange offer a vibration-resistant connection between plug and header and are securely held especially during vibrations.

To shield devices from electromagnetic interferences, the STF-SH version shield support was developed. The shield support provides a generous connection surface for the shielding cable using metal cable clips. Together with the screw of the fastening flange, the shielding function is passed onto the device metal housing. If there is a non-conductive device wall, the shielding function can be passed on to the PCB through the PCB-SHIELD metal.



COMBICON Select

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COMBICON Select – the printed circuit board connection software supports your workflow from the PCB and housing layout to the ordering process with:

- Systematic and fast selection of products
- Universal Internet aided engineering with extensive CAD downloading
- Easy-to-use e-shopping functions.

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.

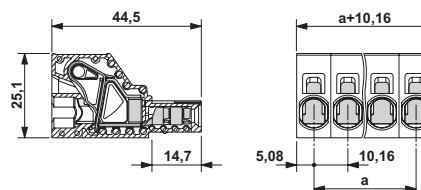
select.phoenixcontact.com/combicon

POWER COMBICON
Spring-cage connector
SPC 16/...-ST-10,16
10.16 mm Pitch



Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON spring-cage plugs, 10.16 mm pitch, color: green	2	10.16	SPC 16/ 2-ST-10,16	1711268	50
	3	20.32	SPC 16/ 3-ST-10,16	1711271	50
	4	30.48	SPC 16/ 4-ST-10,16	1711284	50
	5	40.64	SPC 16/ 5-ST-10,16	1711297	50
	6	50.80	SPC 16/ 6-ST-10,16	1711307	50
	7	60.96	SPC 16/ 7-ST-10,16	1711310	50
	8	71.12	SPC 16/ 8-ST-10,16	1711323	50
	9	81.28	SPC 16/ 9-ST-10,16	1711336	50
Keying profile , is inserted into the slot on the plug and header, red insulating material			CP-HCC 4	1600027	100
Screwdriver , to actuate the COMBI spring			SZS 2 - 0.8 x 4,0	1204520	10
Marker card , with 10 pcs., 10-section marker strips, white, self-adhesive, for 100 terminal blocks			SK 10/5 (see COMBICON catalog)		
Crimp pliers , for ferrules of up to 16 mm ²			CRIMPFOX 16 S	1207983	1
Technical data			see description		
Dimensions			10.16		
Pitch [mm]			10.16		
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 6		
Nominal current / cross section [A] / [mm ²]			76 ¹⁾ / 16		
Maximum load current / cross section [A] / [mm ²]			76 ¹⁾ / 16		
Connection capacity					
Solid / stranded / conductor sizes [mm ²] / [mm ²] / AWG			0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrule without / with plastic sleeve [mm ²]			0.5 - 16 ²⁾ / 0.5 - 16 ²⁾		
Multiple connection (2 conductors with same cross section)					
Solid / stranded [mm ²]			- / -		
Stranded with ferrules without plastic sleeve [mm ²]			-		
Stranded with TWIN ferrule with plastic sleeve [mm ²]			-		
Stripping length [mm]			18		
Internal cylindrical gage (IEC 60947-1)			-		
Screw thread			-		
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 request		
Usegroup C [V] / [A] / AWG			on request		
Usegroup D [V] / [A] / AWG			on request		

¹⁾ Observe derating curve
²⁾ Only in connection with CRIMPFOX 16 S

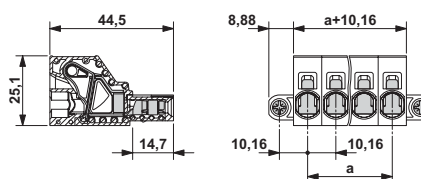


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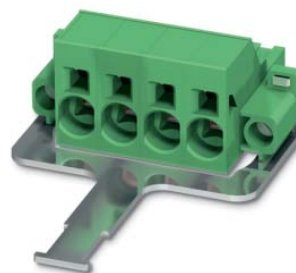


Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON spring-cage plugs, 10.16 mm pitch, color: green	2	10.16	SPC 16/ 2-STF-10,16	1711378	50
	3	20.32	SPC 16/ 3-STF-10,16	1711381	50
	4	30.48	SPC 16/ 4-STF-10,16	1711394	50
	5	40.64	SPC 16/ 5-STF-10,16	1711404	50
	6	50.80	SPC 16/ 6-STF-10,16	1711417	50
	7	60.96	SPC 16/ 7-STF-10,16	1711420	50
	8	71.12	SPC 16/ 8-STF-10,16	1711433	50
	9	81.28	SPC 16/ 9-STF-10,16	1711446	50
Keying profile , is inserted into the slot on the plug and header, red insulating material			CP-HCC 4	1600027	100
Screwdriver , to actuate the COMBI spring			SZS 2 - 0.8 x 4,0	1204520	10
Marker card , with 10 pcs., 10-section marker strips, white, self-adhesive, for 100 terminal blocks			SK 10/5 (see COMBICON catalog)		
Crimp pliers , for ferrules of up to 16 mm ²			CRIMPFOX 16 S	1207983	1
Technical data					
Dimensions				see description	
Pitch		[mm]		10.16	
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	6
Nominal current / cross section		[A] / [mm ²]		76 ¹⁾ / 16	
Maximum load current / cross section		[A] / [mm ²]		76 ¹⁾ / 16	
Connection capacity					
Solid / stranded / conductor sizes		[mm ²] / [mm ²] / AWG		0.75 - 16 / 0.75 - 16 / 18 - 6	
Stranded with ferrule without / with plastic sleeve		[mm ²]		0.5 - 16 ²⁾ / 0.5 - 16 ²⁾	
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm ²]		- / -	
Stranded with ferrules without plastic sleeve		[mm ²]		-	
Stranded with TWIN ferrule with plastic sleeve		[mm ²]		-	
Stripping length		[mm]		18	
Internal cylindrical gage (IEC 60947-1)		-		-	
Screw thread		-		-	
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 request	
Usegroup C		[V] / [A] / AWG		on request	
Usegroup D		[V] / [A] / AWG		on request	

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POWER COMBICON spring-cage plugs, 10.16 mm pitch, color: green	2	10.16
	3	20.32
	4	30.48
	5	40.64
	6	50.80
	7	60.96
	8	71.12
	9	81.28

Keying profile, is inserted into the slot on the plug and header, red insulating material

Screwdriver, to actuate the COMBI spring

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

Crimp pliers, for ferrules of up to 16 mm²

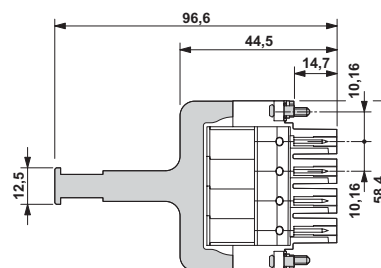
Technical data

Dimensions	
Pitch	[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 ferrules without plastic sleeve	[mm ²]
Stranded with TWIN ferrule with plastic sleeve	[mm ²]
Stripping length	[mm]
Internal cylindrical gage (IEC 60947-1)	-
Screw thread	-
Tightening torque	[Nm]
Insulation material	
Inflammability class acc. to UL 94	
Approval data (UL/CUL and CSA)	
Usegroup B	[V] / [A] / AWG
Usegroup C	[V] / [A] / AWG
Usegroup D	[V] / [A] / AWG

Type	Order No.	Pcs./Pkt.
SPC 16/ 4-STF-SH-10,16	1711488	50
CP-HCC 4	1600027	100
SZS 2 - 0.8 x 4,0	1204520	10
SK 10/5 (see COMBICON catalog)		
CRIMPFOX 16 S	1207983	1
see description		
10.16		
	I	
	III/3	III/2
	1000	1000
	8	8
		II / 2
		1000
		6
		76 ¹⁾ / 16
		76 ¹⁾ / 16
	0.75 - 16 / 0.75 - 16 / 18 - 6	
	0.5 - 16 ²⁾ / 0.5 - 16 ²⁾	
	- / -	
	-	
	-	
	18	
	-	
	-	
	-	
	PA	
	V0	
	on request	
	on request	
	on request	

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Derating curve

Type: SPC 16/...-ST-10,16 with PC 6-16/...-G1-10,16

Connected conductor cross section = 16 mm²

Reduction factor = 0.8

Number of positions = see diagram

