

POWER COMBICON spring-cage connector

10.16 mm pitch

SPC 16/...-ST(F)-10,16

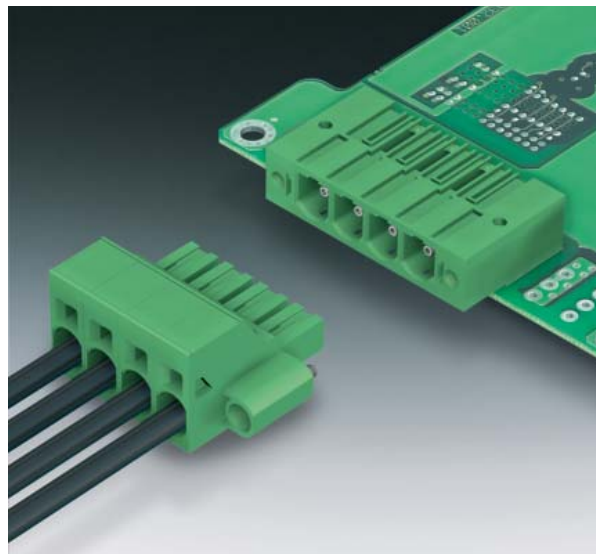
The already familiar PC 16 family is now also available with spring-cage connection. The SPC 16 connection with spring-cage offers the following advantages:

- 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

The COMBICON search engine with CAD downloading



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

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10.16 mm Pitch



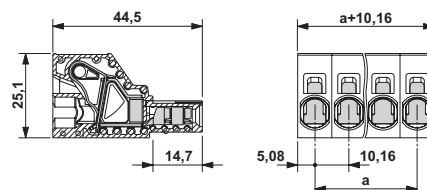
Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
POWER COMBICON spring-cage plugs, 10.16 mm pitch, color: green					
	2	10.16	SPC 16/ 2-ST-10,16	1711268	50
	3	20.32	SPC 16/ 3-ST-10,16	1711271	50
	4	30.48	SPC 16/ 4-ST-10,16	1711284	50
	5	40.64	SPC 16/ 5-ST-10,16	1711297	50
	6	50.80	SPC 16/ 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					
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] / [mm²]				
Maximum load current / cross section	[A] / [mm²]				
Connection capacity					
Solid / stranded / conductor sizes	[mm²] / [mm²] / AWG				
Stranded with ferrule without / with plastic sleeve	[mm²]				
Multiple connection (2 conductors with same cross section)					
Solid / stranded	[mm²]				
Stranded with ferrules without plastic sleeve	[mm²]				
Stranded with TWIN ferrule with plastic sleeve	[mm²]				
Stripping length	[mm]				
Internal cylindrical gage (IEC 60947-1)	—				
Screw thread	—				
Tightening torque	[Nm]				
Insulation material					
Inflammability class acc. to UL 94	PA				
Approval data (UL/CUL and CSA)					
Usegroup B	[V] / [A] / AWG				
Usegroup C	[V] / [A] / AWG				
Usegroup D	[V] / [A] / AWG				

				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						
	III / 3	I	III / 2	II / 2		
	1000	1000	1000	1000		
	8	8	6	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					

Type	Order No.	Pcs./Pkt.
SPC 16/ 2-ST-10,16	1711268	50
SPC 16/ 3-ST-10,16	1711271	50
SPC 16/ 4-ST-10,16	1711284	50
SPC 16/ 5-ST-10,16	1711297	50
SPC 16/ 6-ST-10,16	1711307	50
SPC 16/ 7-ST-10,16	1711310	50
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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		
III / 3	I	II / 2
1000	III / 2	1000
8	1000	6
	8	
	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		

¹⁾ Observe derating curve

²⁾ Only in connection with CRIMPFOX 16 S



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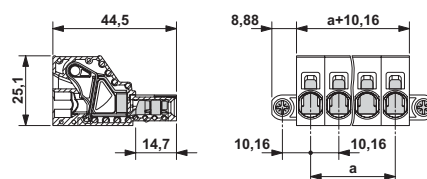
10.16 mm Pitch



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-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 mm²			CRIMPFOX 16 S	1207983	1
Technical data			see description		
Dimensions			10.16		
Pitch			[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			1000 1000 1000		
Rated surge voltage			8 8 6		
Nominal current / cross section			[A] / [mm²] 76 ¹⁾ / 16		
Maximum load current / cross section			[A] / [mm²] 76 ¹⁾ / 16		
Connection capacity					
Solid / stranded / conductor sizes			[mm²] / [mm²] / AWG 0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrule without / with plastic sleeve			[mm²] 0.5 - 16 ²⁾ / 0.5 - 16 ²⁾		
Multiple connection (2 conductors with same cross section)					
Solid / stranded			[mm²] - / -		
Stranded with ferrules without plastic sleeve			[mm²] -		
Stranded with TWIN ferrule with plastic sleeve			[mm²] -		
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

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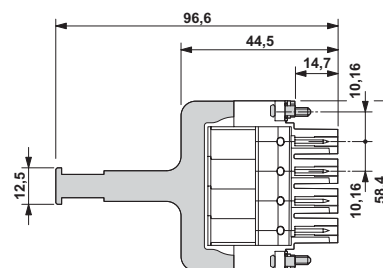


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	9	81.28			
Keying profile , is inserted into the slot on the plug and header, red insulating material					
Screwdriver , to actuate the COMBI spring					
Marker card , with 10 pcs., 10-section marker strips, white, self-adhesive, for 100 terminal blocks					
Crimp pliers , for ferrules of up to 16 mm²					
Technical data					
Dimensions					
Pitch		[mm]	see description 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] / [mm²]		76 ¹⁾ / 16	
Maximum load current / cross section		[A] / [mm²]		76 ¹⁾ / 16	
Connection capacity					
Solid / stranded / conductor sizes		[mm²] / [mm²] / AWG		0.75 - 16 / 0.75 - 16 / 18 - 6	
Stranded with ferrule without / with plastic sleeve		[mm²]		0.5 - 16 ²⁾ / 0.5 - 16 ²⁾	
Multiple connection (2 conductors with same cross section)					
Solid / stranded		[mm²]		- / -	
Stranded with ferrules without plastic sleeve		[mm²]		-	
Stranded with TWIN ferrule with plastic sleeve		[mm²]		-	
Stripping length		[mm]		18	
Internal cylindrical gage (IEC 60947-1)		–		-	
Screw thread		–		-	
Tightening torque		[Nm]		-	
Insulation material					
Inflammability class acc. to UL 94				PA	
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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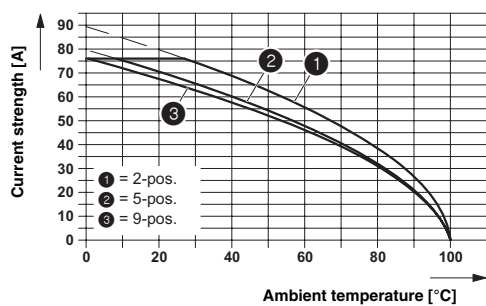
Derating curve

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



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9