

# SPC 5/ 4-STF-SH-7,62 - PCB connector



1704071

<https://www.phoenixcontact.com/us/products/1704071>

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PCB connector, nominal cross section: 6 mm<sup>2</sup>, color: green, nominal current: 32 A, rated voltage (III/2): 1000 V, contact surface: Sn, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: SPC 5/..-STF-SH, pitch: 7.62 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, Electrical properties: shielded, locking: Screw locking mechanism, mounting method: Screw flange, type of packaging: packed in cardboard

## Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- Optimized for tight installation situations: operation and conductor connection from one direction
- Shield for adherence to the EMC requirements and an optional strain relief
- Screwable flange for superior mechanical stability
- 600 V UL approval in the smallest of dimensions

## Commercial data

Item number	1704071
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA04
Product key	AADFBC
GTIN	4046356031820
Weight per piece (including packing)	36.54 g
Weight per piece (excluding packing)	25.2 g
Customs tariff number	85366990
Country of origin	IN

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## Technical data

### Product properties

Product type	PCB connector
Product family	SPC 5/..-STF-SH
Product line	COMBICON Connectors L
Type	Standard
Number of positions	4
Pitch	7.62 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Mounting type	Screw flange
Electrical characteristic	shielded

### Electrical properties

#### Properties

Nominal current $I_N$	32 A
Nominal voltage $U_N$	1000 V
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
Electrical characteristic	shielded

### Connection data

#### Connection technology

Type	Standard
Connector system	COMBICON PC 5
Nominal cross section	6 mm <sup>2</sup>
Contact connection type	Socket

#### Interlock

Locking type	Screw locking mechanism
Mounting type	Screw flange
Tightening torque	0.3 Nm ... 0.7 Nm

#### Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup>

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Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 8
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cylindrical gauge a x b / diameter	4.3 mm x 4.0 mm / 4.0 mm
Stripping length	15 mm

## Specifications for ferrules without insulating collar

recommended crimping tool	1212034 CRIMPFOX 6 1213144 CRIMPFOX CENTRUS 6S 1213146 CRIMPFOX CENTRUS 6H
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.5 mm <sup>2</sup> ; Length: 10 mm ... 15 mm Cross section: 0.75 mm <sup>2</sup> ; Length: 10 mm ... 15 mm Cross section: 1 mm <sup>2</sup> ; Length: 10 mm ... 15 mm Cross section: 1.5 mm <sup>2</sup> ; Length: 12 mm ... 15 mm Cross section: 2.5 mm <sup>2</sup> ; Length: 12 mm ... 15 mm Cross section: 4 mm <sup>2</sup> ; Length: 12 mm ... 15 mm Cross section: 6 mm <sup>2</sup> ; Length: 12 mm ... 15 mm

## Specifications for ferrules with insulating collar

recommended crimping tool	1212034 CRIMPFOX 6 1213144 CRIMPFOX CENTRUS 6S 1213146 CRIMPFOX CENTRUS 6H
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.5 mm <sup>2</sup> ; Length: 10 mm ... 15 mm Cross section: 0.75 mm <sup>2</sup> ; Length: 12 mm ... 15 mm Cross section: 1 mm <sup>2</sup> ; Length: 12 mm ... 15 mm Cross section: 1.5 mm <sup>2</sup> ; Length: 12 mm ... 15 mm Cross section: 2.5 mm <sup>2</sup> ; Length: 12 mm ... 15 mm Cross section: 4 mm <sup>2</sup> ; Length: 12 mm ... 15 mm

## Material specifications

### Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 µm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 µm Sn)

### Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I

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CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

## Dimensions

Dimensional drawing	
Pitch	7.62 mm
Width [w]	30.46 mm
Height [h]	21.4 mm
Length [l]	78.7 mm

## Mounting

Flange	
Tightening torque	0.3 Nm ... 0.7 Nm

## Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
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## Environmental and real-life conditions

Ambient conditions	
Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

## Electrical tests

Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm

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Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	8 mm
minimum creepage distance (II/2)	8 mm

## Packaging specifications

Type of packaging	packed in cardboard
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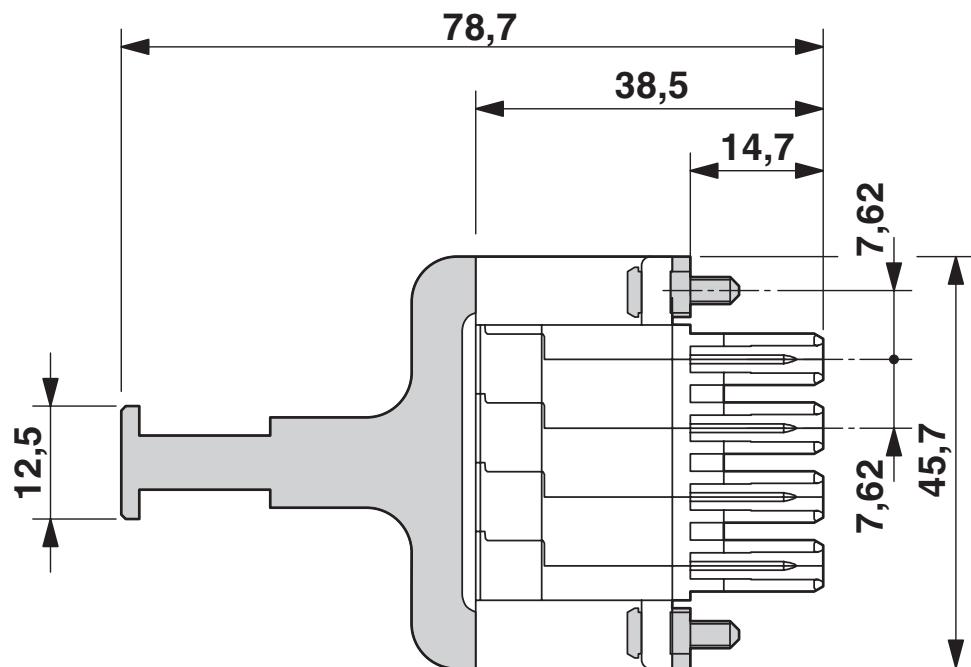


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## Drawings

Dimensional drawing



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## Approvals

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cULus Recognized				
Approval ID: E60425-19920722				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
B	600 V	35 A	24 - 8	-
C	600 V	35 A	24 - 8	-

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## Classifications

### ECLASS

ECLASS-13.0	27460202
ECLASS-15.0	27460202

### ETIM

ETIM 9.0	EC002638
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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