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PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

## Your advantages

- ✓ Well-known connection principle allows worldwide use
- Allows connection of two conductors
- Integrated double steel spring provides additional safety in the event of temperature and power fluctuations













## **Key Commercial Data**

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	4 046356 523226
GTIN	4046356523226
Weight per Piece (excluding packing)	23.200 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Item properties

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Brief article description	Printed-circuit board connector
Plug-in system	POWER COMBICON 5
Type of contact	Female connector



## Technical data

## Item properties

Range of articles	PC 5/STCL1
Pitch	7.62 mm
Number of positions	5
Connection method	Screw connection with tension sleeve
Drive form screw head	Slotted Pozidriv (Z1L)
Screw thread	M3
Locking	Click & Lock latching slide
Number of levels	1
Number of connections	5
Number of potentials	5

## Electrical parameters

Nom. voltage	1000 V
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## Connection capacity

Connection method	Screw connection with tension sleeve
pluggable	Yes
Conductor cross section solid	0.2 mm² 10 mm²
Conductor cross section flexible	0.2 mm² 6 mm²
Conductor cross section AWG / kcmil	24 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 6 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
2 conductors with same cross section, solid	0.2 mm² 2.5 mm²
2 conductors with same cross section, flexible	0.2 mm² 4 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.25 mm² 2.5 mm²
Stripping length	10 mm
Torque	0.5 Nm 0.8 Nm

### 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



## Technical data

## Material data - housing

Insulating material	PA
Insulating material group	I
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

## Material data - actuating element

Insulating material	PA
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

## Dimensions for the product

Length [1]	35.3 mm
Width [w]	46.25 mm
Height [ h ]	19.7 mm
Pitch	7.62 mm
Height (without solder pin)	19.7 mm
Dimension a	30.48 mm

## Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (assembly)	-5 °C 100 °C
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)

## Termination and connection method

Test for conductor damage and slackening	IEC 60999-1:1999-11
	Test passed

## Pull-out test

Pull-out test	IEC 60999-1:1999-11
	Test passed
Conductor cross section / conductor type / tensile force	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	10 mm² / solid / > 90 N



## Technical data

#### Pull-out test

No. of cycles

Mechanical tests according to standard	
Test passed IEC 60512-1-1:2002-02	
Test passed IEC 60512-1-2:2002-02	
Test passed IEC 60068-2-70:1995-12	
Test passed	
IEC 60512-13-2:2006-02	

25 6 N

2 N

6 mm² / flexible / > 80 N

Test passed IEC 60512-13-5:2006-02

### Air clearances and creepage distances

Insertion strength per pos. approx.
Withdraw strength per pos. approx.

Polarization and coding

All clearances and creepage distances	
IEC 60664-1:2007-04	
IEC 60664-1:2007-04	
1000 V	
1000 V	
1000 V	
8 kV	
8 kV	
6 kV	
8 mm	
8 mm	
5.5 mm	
12.5 mm	
5 mm	
5 mm	

## Current carrying capacity / derating curves

## Mechanical tests (A)

Insertion strength per pos. approx.	6 N
Withdraw strength per pos. approx.	2 N
Polarization when inserted requirement >20 N	Test passed

## Durability tests (B)

Specification	IEC 60512-9-1:2010-03
Contact resistance R <sub>1</sub>	0.5 mΩ
Insertion/withdrawal cycles	25



## Technical data

## Durability tests (B)

Contact resistance R <sub>2</sub>	0.6 mΩ
Impulse withstand voltage at sea level	9.8 kV
Power-frequency withstand voltage	4.26 kV
Insulation resistance, neighboring positions	12 ΤΩ

## Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-40 °C/2 h
Thermal stress	100 °C/168 h
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 $\mathrm{dm^3/40~^\circ C/1}$ cycle
Impulse withstand voltage at sea level	9.8 kV
Power-frequency withstand voltage	4.26 kV

## Environmental and durability tests (E)

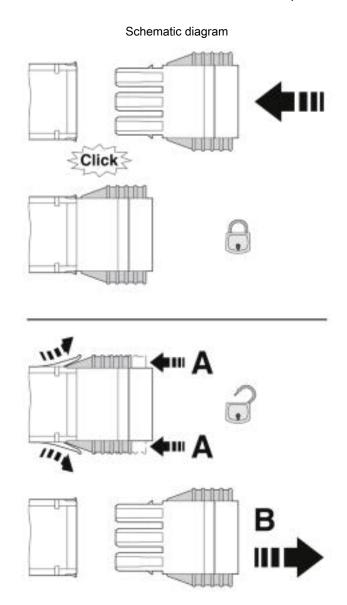
Specification	IEC 61984:2008-10
Result, degree of protection, IP code	Finger safety with IP20 test finger

## **Environmental Product Compliance**

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

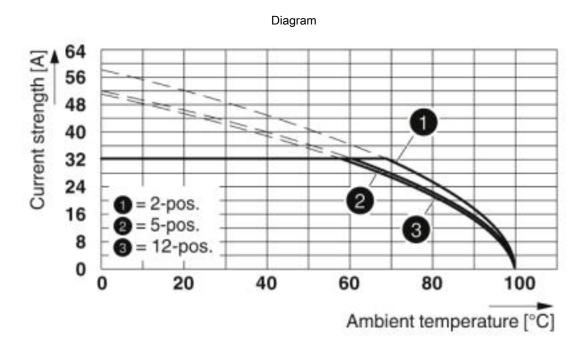
## Drawings



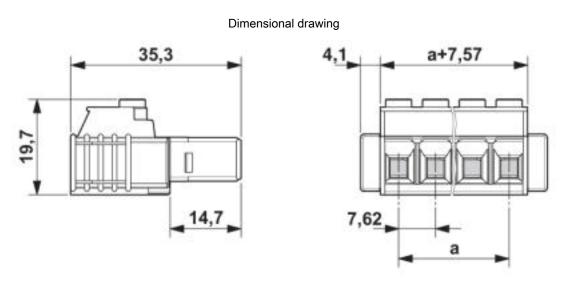


Click and Lock system method of operation





Type: PC 5/...-STCL1-7,62 with IPC 5/...-STGCL-7,62



## Classifications

## eCl@ss

eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700



## Classifications

## eCl@ss

eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

### **ETIM**

ETIM 3.0	EC001121
ETIM 4.0	EC002643
ETIM 5.0	EC002638
ETIM 6.0	EC002638
ETIM 7.0	EC002638

### **UNSPSC**

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121409
UNSPSC 18.0	39121409
UNSPSC 19.0	39121409
UNSPSC 20.0	39121409
UNSPSC 21.0	39121409

## Approvals

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Approvals

EAC / cULus Recognized

Ex Approvals

Approval details



## Approvals

EAC	EAC	B.01742
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cULus Recognized	http://database.ul.com/cgi-bin/XYV/template/L	ISEXT/1FRAME/index.htm E60425-1992	0722
	В	С	
Nominal voltage UN	600 V	600 V	
Nominal current IN	41 A	41 A	
mm²/AWG/kcmil	24-8	24-8	

#### Accessories

Accessories

Coding element

Coding profile - CP-PC RD - 1701967



Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red

### Labeled terminal marker

Marker card - SK 7,62/3,8:FORTL.ZAHLEN - 0804549



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: 7.62 x 3.8 mm

Marker card - SK 3,8 REEL P7,62 WH CUS - 0825128



Marker card, Card, can be ordered: By card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 7.62 mm, lettering field size: continuous x 3.8 mm



#### Accessories

#### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

#### Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

#### Marker strip - SK 3,8 WH:REEL - 0805218



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 90000 mm, lettering field size: continuous x 3.8 mm, Number of individual labels: 210000

## Additional products

Printed-circuit board connector - IPC 5/5-STGCL-7,62 - 1718290



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin



#### Accessories

Printed-circuit board connector - ISPC 5/5-STGCL-7,62 - 1748891



PCB connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

Printed-circuit board connector - PC 5/5-G-7,62 - 1720495



PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm

Printed-circuit board connector - PC 5/5-GU-7,62 - 1720712



PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.2 mm

Printed-circuit board connector - PCV 5/5-G-7,62 - 1720602



PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm

Printed-circuit board connector - DFK-PC 5/ 5-G-7,62 - 1727618



Feed-through header, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.9 mm



#### Accessories

Printed-circuit board connector - DFK-PC 5/ 5-GU-7,62 - 1727838



Feed-through header, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.26 mm

Printed-circuit board connector - DFK-PCV 5/5-G-7,62 - 1716315



Feed-through header, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm

Feed-through plug - DFK-PC 5/5-ST-7,62 - 1716535



Feed-through connector, nominal current: 41 A, rated voltage (III/2): 1000 V, nominal cross section: 6 mm², number of positions: 5, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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