

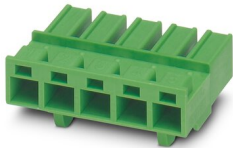
# PCB connector - PCC 4/ 3-ST-7,62



1840188

<https://www.phoenixcontact.com/us/products/1840188>

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PCB connector, nominal cross section: 4 mm<sup>2</sup>, color: green, nominal current: 20 A, rated voltage (III/2): 1000 V, type of contact: Female connector, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PCC 4/...-ST, pitch: 7.62 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON PC 4, locking: without, mounting: without, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 13,5A/STG-MTN 0,5-1,0 (3190438); 13,5A/STG-MTN 0,5-1,0 BA (3190629); 20A/STG-MTN 1,5-2,5 (3190506); 20A/STG-MTN 1,5-2,5 BA (3190632). BA = Taped contacts

## Your advantages

- Inexpensive connection of large quantities of pre-assembled conductors
- Small component size for applications where space is at a premium

## Commercial Data

Item number	1840188
Packing unit	1 pc
Minimum order quantity	50 pc
Sales Key	A02
Product Key	AADCAA
Catalog Page	Page 514 (C-1-2013)
GTIN	4017918102265
Weight per Piece (including packing)	3.42 g
Weight per Piece (excluding packing)	2.97 g
Customs tariff number	85366990
Country of origin	DE

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## Technical Data

### Product properties

Type	Standard
Product line	COMBICON Connectors L
Product type	PCB plug
Number of positions	3
Pitch	7.62 mm
Number of connections	3
Number of rows	1
Mounting flange	without
Number of potentials	3

### Electrical properties

Nominal current $I_N$	20 A
Nominal voltage $U_N$	1000 V
Degree of pollution	3
Rated voltage (III/3)	400 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV

### Connection data

#### Connection technology

Type	Standard
Connector system	COMBICON PC 4
Nominal cross section	4 mm <sup>2</sup>
Type of contact	Female connector

#### Interlock

Locking type	without
Mounting flange	without

#### Conductor connection

Connection method	Crimp connection
Conductor/PCB connection direction	0 °
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	20 ... 14

### Material specifications

#### Material data - housing

Housing color	green (RAL 6021)
Insulating material	PA

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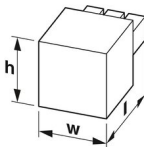


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Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for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

## Dimensions

Dimensional drawing	
Pitch	7.62 mm
Width [w]	22.81 mm
Height [h]	17.2 mm
Length [l]	28.7 mm

## 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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## Electrical tests

### Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	400 V
Rated surge voltage (III/3)	8 kV
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	8 kV

## Packaging specifications

Type of packaging	packed in cardboard
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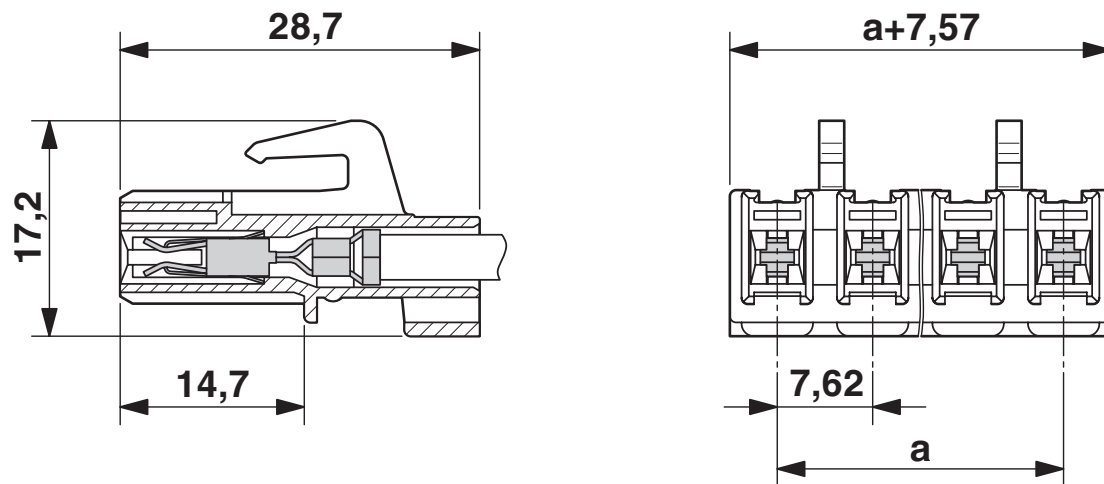
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## Drawings

Dimensional drawing




# PCB connector - PCC 4/ 3-ST-7,62





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## Approvals

 <b>CSA</b> Approval ID: 13631				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
Use group B				
	300 V	10 A	20 - 14	-
Use group C				
	300 V	10 A	20 - 14	-

 <b>EAC</b> Approval ID: B.01687				
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 <b>cULus Recognized</b> Approval ID: E60425-19920722				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
Use group B				
	600 V	10 A	20 - 14	-
Use group C				
	600 V	10 A	20 - 14	-

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## Classifications

### ECLASS

ECLASS-9.0	27440309
ECLASS-10.0.1	27440309
ECLASS-11.0	27460202

### ETIM

ETIM 8.0	EC002638
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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## Accessories

### Coding profile

Coding profile - CP-PC RD - 1701967

<https://www.phoenixcontact.com/us/products/1701967>

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



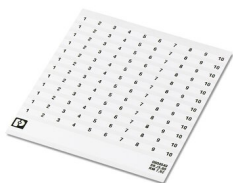
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### Marker card

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

<https://www.phoenixcontact.com/us/products/0804549>

Marker 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





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## Crimp contact

Crimp contact - STG-MTN 0,5-1,0 - 3190438

<https://www.phoenixcontact.com/us/products/3190438>



Module socket contact, inserted in the PCC or HCC plug housing after crimping the conductor, for 0.5 mm<sup>2</sup> ... 1.0 mm<sup>2</sup> conductors

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## Crimp contact

Crimp contact - STG-MTN 0,5-1,0 BA - 3190629

<https://www.phoenixcontact.com/us/products/3190629>



Module socket contact, inserted in the PCC or HCC plug housing after crimping the conductor, for 0.5 mm<sup>2</sup> ... 1.0 mm<sup>2</sup> conductors, ribbon contact

# PCB connector - PCC 4/ 3-ST-7,62



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## Crimp contact

Crimp contact - STG-MTN 1,5-2,5 - 3190506

<https://www.phoenixcontact.com/us/products/3190506>



Module socket contact, inserted in the PCC or HCC plug housing after crimping the conductor, for 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup> conductors

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## Crimp contact

Crimp contact - STG-MTN 1,5-2,5 BAND - 3190632

<https://www.phoenixcontact.com/us/products/3190632>



Module socket contact, inserted in the PCC or HCC plug housing after crimping the conductor, for 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup> conductors, ribbon contact

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## Crimping pliers

Crimping pliers - CRIMPFOX MT 2,5 - 1204038

<https://www.phoenixcontact.com/us/products/1204038>



Crimping pliers, for crimping conductors to the module female contacts STG-MTN, crimp range: 0.5-2.5 mm<sup>2</sup>, AWG: 20-14

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## Contact removal tool

Contact removal tool - STG-EW - 3190441

<https://www.phoenixcontact.com/us/products/3190441>



Contact removal tool

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## Strain relief

Strain relief - STZ 2-PCC 4-7,62 - 1840214

<https://www.phoenixcontact.com/us/products/1840214>



Strain relief, for the 3 to 4-position MCC 1/...STZ-3,81 and MCC 1/...STZF-3,81 plugs, for snapping into the latching chambers, can be labeled with ZB 6

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## Strain relief

Strain relief - STZ 3-PCC 4-7,62 - 1840227

<https://www.phoenixcontact.com/us/products/1840227>



Strain relief, for the 5 to 10-position MCC 1/...STZ-3,81 and MCC 1/...STZF-3,81 plugs, for snapping into the latching chambers, can be labeled with ZB 6

# PCB connector - PCC 4/ 3-ST-7,62

1840188

<https://www.phoenixcontact.com/us/products/1840188>

## Strain relief

Strain relief - STZ 5-PCC 4-7,62 GN - 1842005

<https://www.phoenixcontact.com/us/products/1842005>



Strain relief, for the 11 to 15-position MCC 1/...STZ-3,81 and MCC 1/...STZF-3,81 plugs, for snapping into the latching chambers, can be labeled with ZB 6

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## Strain relief

Strain relief - STZ 8-PCC 4-7,62 - 1840230

<https://www.phoenixcontact.com/us/products/1840230>



Strain relief, for the 16 to 20-position MCC 1/...STZ-3,81 and MCC 1/...STZF-3,81 plugs, for snapping into the latching chambers, can be labeled with ZB 6

# PCB connector - PCC 4/ 3-ST-7,62



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## PCB header

PCB header - PCV 4/ 3-G-7,62 - 1804690

<https://www.phoenixcontact.com/us/products/1804690>



PCB headers, nominal cross section: 4 mm<sup>2</sup>, color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Male connector, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PCV 4/..-G, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, number of solder pins per potential: 2, plug-in system: COMBICON PC 4, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, Mounting flange: Accessory Item No. 1827570

## PCB header

PCB header - PC 4/ 3-G-7,62 - 1804807

<https://www.phoenixcontact.com/us/products/1804807>



PCB headers, nominal cross section: 4 mm<sup>2</sup>, color: green, nominal current: 20 A, rated voltage (III/2): 630 V, contact surface: Tin, type of contact: Male connector, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PC 4/..-G, pitch: 7.62 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 5 mm, number of solder pins per potential: 2, plug-in system: COMBICON PC 4, Pin connector pattern alignment: Standard, locking: without, mounting: without, type of packaging: packed in cardboard, Mounting flange: Accessory Item No. 1827570

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