

# MCC 1/ 4-STZF-3,81 - PCB connector



1852383

<https://www.phoenixcontact.com/us/products/1852383>

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PCB connector, nominal cross section: 1 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCC 1/..-STZF, pitch: 3.81 mm, connection method: Crimp connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: Screw locking mechanism, mounting: Screw flange, type of packaging: packed in cardboard, Corresponding female crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 5A/MCC-MT 0,2-0,35 (1859988); 8A/MCC-MT 0,5-1,0 (1859991)

## Your advantages

- Inexpensive connection of large quantities of preassembled conductors
- Screwable flange for superior mechanical stability
- Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point

## Commercial data

Item number	1852383
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	AA02
Product key	AABCAB
Catalog page	Page 207 (C-1-2013)
GTIN	4017918109097
Weight per piece (including packing)	2.133 g
Weight per piece (excluding packing)	2.133 g
Customs tariff number	85366990
Country of origin	PL

# MCC 1/ 4-STZF-3,81 - PCB connector



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## Technical data

### Product properties

Type	Standard
Product line	COMBICON Connectors S
Product type	PCB connector
Product family	MCC 1/..-STZF
Number of positions	4
Pitch	3.81 mm
Number of connections	4
Number of rows	1
Mounting flange	Screw flange
Number of potentials	4

### Electrical properties

Nominal current $I_N$	8 A
Nominal voltage $U_N$	160 V
Degree of pollution	3
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

### Connection data

#### Connection technology

Type	Standard
Connector system	COMBICON MC 1,5
Nominal cross section	1 mm <sup>2</sup>
Contact connection type	Socket

#### Interlock

Locking type	Screw locking mechanism
Mounting flange	Screw flange

#### Conductor connection

Connection method	Crimp connection
Conductor/PCB connection direction	0 °
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Conductor cross section AWG	24 ... 18

### Material specifications

# MCC 1/ 4-STZF-3,81 - PCB connector

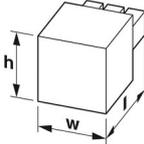
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## Material data - housing

Color (Housing)	green (6021)
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

## Dimensions

Dimensional drawing	
Pitch	3.81 mm
Width [w]	25.63 mm
Height [h]	8.7 mm
Length [l]	23.1 mm

## Mounting

Connection method	Crimp connection
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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 |

Insulating material group	I
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

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## Packaging specifications

Type of packaging
packed in cardboard

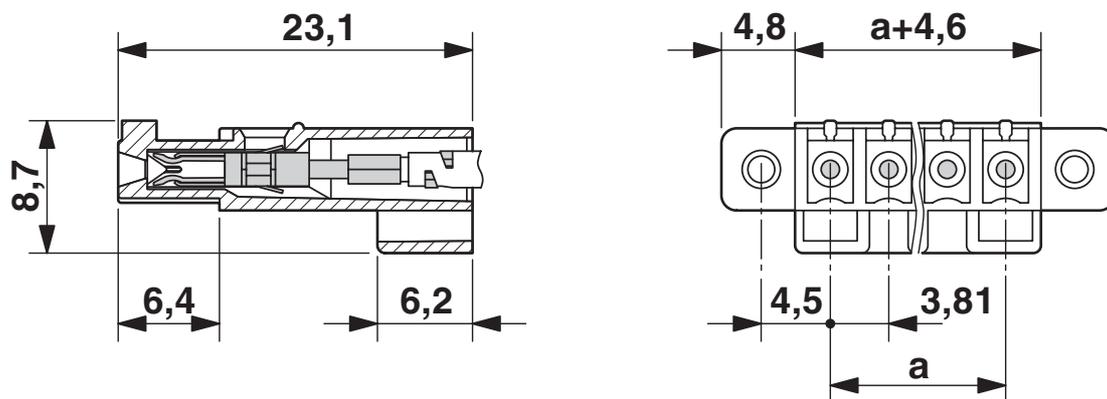
# MCC 1/ 4-STZF-3,81 - PCB connector

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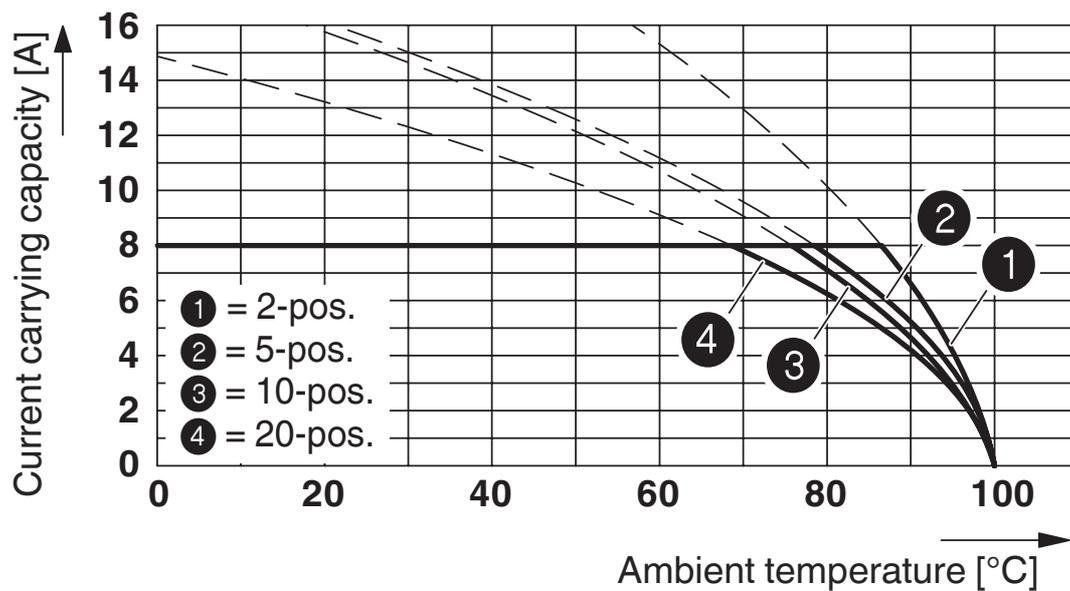
<https://www.phoenixcontact.com/us/products/1852383>

## Drawings

Dimensional drawing



Diagram



Type: MCC 1/...-ST-3,81 with MC 1,5/...-G-3,81; contact: MCC-MT 0,5 - 1,0

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1852383>

 **EAC**  
Approval ID: B.01687

 **cULus Recognized**  
Approval ID: E60425-20110128

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	300 V	5 A	24 - 22	-
Use group D	300 V	5 A	24 - 22	-

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## Classifications

### ECLASS

ECLASS-11.0	27460202
ECLASS-12.0	27460202
ECLASS-13.0	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

### MCC-MT 0,2-0,35 - Crimp contact

1859988

<https://www.phoenixcontact.com/us/products/1859988>



Female contact, is inserted into the plug after crimping the conductor, for the module plug housing MCC 1...-STZ-3,81 and MCC 1...-STZF-3,81, for cross sections of 0.2 mm<sup>2</sup> to 0.34 mm<sup>2</sup>

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### MCC-MT 0,5-1,0 - Crimp contact

1859991

<https://www.phoenixcontact.com/us/products/1859991>



Female contact, is inserted into the plug after crimping the conductor, for the module plug housing MCC 1...-STZ-3,81 and MCC 1...-STZF-3,81, for cross sections of 0.5 mm<sup>2</sup> to 1 mm<sup>2</sup>

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## CRIMPFOX-1,6-ER-1,50-GH - Crimping pliers

1772793

<https://www.phoenixcontact.com/us/products/1772793>



Crimping pliers, for IBS DSUB.../C

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## SZS 0,4X2,5 VDE - Screwdriver

1205037

<https://www.phoenixcontact.com/us/products/1205037>



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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

1840214

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



Strain relief, for the PCC 4/..-ST and 3-pos. ... 4-pos. MCC 1/..-STZ(F) connector, for snapping into the latching chambers, can be labeled with ZB 6

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

1840227

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



Strain relief, for the PCC 4/..-ST and 5-pos. ... 10-pos. MCC 1/..-STZ(F) connector, for snapping into the latching chambers, can be labeled with ZB 6

# MCC 1/ 4-STZF-3,81 - PCB connector

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

1842005

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



Strain relief, for the PCC 4/...-ST and 11-pos. ... 15-pos. MCC 1/...-STZ(F) connector, for snapping into the latching chambers, can be labeled with ZB 6

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

1840230

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



Strain relief, for the PCC 4/...-ST and 16-pos. ... 20-pos. MCC 1/...-STZ(F) connector, for snapping into the latching chambers, can be labeled with ZB 6

# MCC 1/ 4-STZF-3,81 - PCB connector



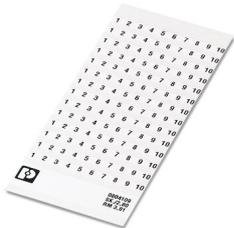
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## SK 3,81/2,8:FORTL.ZAHLEN - Marker card

0804109

<https://www.phoenixcontact.com/us/products/0804109>



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 3.81 mm, lettering field size: 3.81 x 2.8 mm

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## MCC-MT 0,2-0,35 (0,0) BA - Crimp contact

1923717

<https://www.phoenixcontact.com/us/products/1923717>



Female contact, is inserted into the plug after crimping the conductor, for the module plug housing MCC 1...-STZ-3,81 and MCC 1...-STZF-3,81, for cross sections of 0.2 mm<sup>2</sup> to 0.34 mm<sup>2</sup>

# MCC 1/ 4-STZF-3,81 - PCB connector

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## MCC-MT 0,5-1,0 BAND - Crimp contact

1898622

<https://www.phoenixcontact.com/us/products/1898622>



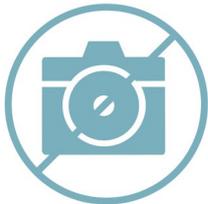
Female contact, is inserted into the plug after crimping the conductor, for the module plug housing MCC 1...-STZ-3,81 and MCC 1...-STZF-3,81, for cross sections of 0.5 mm<sup>2</sup> to 1 mm<sup>2</sup>

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## MCV 1,5/ 4-GF-3,81 P14 THR - PCB header

1707230

<https://www.phoenixcontact.com/us/products/1707230>



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCV 1,5/..-GF-THR, pitch: 3.81 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1.4 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard, For user information and design recommendations for through-hole reflow technology, go to: Downloads

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## MCV 1,5/ 4-GF-3,81 P26 THR - PCB header

1707654

<https://www.phoenixcontact.com/us/products/1707654>



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MCV 1,5/..-GF-THR, pitch: 3.81 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard, For user information and design recommendations for through-hole reflow technology, go to: Downloads

## MCD 1,5/ 4-G1F-3,81 - PCB header

1842937

<https://www.phoenixcontact.com/us/products/1842937>



PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 8, number of rows: 2, number of positions: 4, number of connections: 8, product range: MCD 1,5/..-G1F, pitch: 3.81 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard, In combination with MCV plug components, both an MCVW and an MCVR plug must be used.

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