

## FRONT-MC 1,5/ 5-ST-3,81

Order No.: 1850699

The figure shows a 10-position version of the product

<http://eshop.phoenixcontact.net/phoenix/treeViewClick.do?UID=1850699>

Plug component, Nominal current: 8 A, Nom. voltage: 160 V, Pitch:  
3.81 mm, Number of positions: 5, Connection type: Screw connection,  
Color: green

| Commercial data          |                    |
|--------------------------|--------------------|
| EAN                      | 4017918109844      |
| Pack                     | 50 pcs.            |
| Customs tariff           | 85366990           |
| Weight/Piece             | 0.006734 KG        |
| Catalog page information | Page 146 (CC-2009) |

### Product notes

WEEE/RoHS-compliant since:  
09/08/2005



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

| Technical data                |          |
|-------------------------------|----------|
| <b>Dimensions / positions</b> |          |
| Pitch                         | 3.81 mm  |
| Dimension a                   | 15.24 mm |
| Number of positions           | 5        |
| Screw thread                  | M2       |

|                        |         |
|------------------------|---------|
| Tightening torque, min | 0.22 Nm |
| Tightening torque max  | 0.25 Nm |

#### Technical data

|                                    |  |
|------------------------------------|--|
| Insulating material group          | I  |
| Rated surge voltage (III/3)        | 2.5 kV   |
| Rated surge voltage (III/2)        | 2.5 kV   |
| Rated surge voltage (II/2)         | 2.5 kV   |
| Rated voltage (III/2)              | 160 V  |
| Rated voltage (II/2)               | 320 V  |
| Connection in acc. with standard   | EN-VDE   |
| Nominal current $I_N$              | 8 A  |
| Nominal voltage $U_N$              | 160 V  |
| Nominal cross section              | 1.5 mm <sup>2</sup>                                    |
| Maximum load current               | 8 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Insulating material                | PA   |
| Inflammability class acc. to UL 94 | V0   |
| Internal cylindrical gage          | A1   |
| Stripping length                   | 9 mm   |

#### Connection data

|  |                      |
|--|----------------------|
| Conductor cross section solid min.   | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.                                      | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.    | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                     | 28                   |
| Conductor cross section AWG/kcmil max                                      | 16                   |
| 2 conductors with same cross section, solid min.                           | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.                           | 0.5 mm <sup>2</sup>  |

|   |                      |
|---|----------------------|
| 2 conductors with same cross section, stranded min.                                     | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.                                     | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 0.34 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm <sup>2</sup>  |

### Certificates / Approvals



Certification CB, CSA, CUL, UL, VDE-PZI

#### CSA

|                       |       |
|-----------------------|-------|
| Nominal voltage $U_N$ | 300 V |
| Nominal current $I_N$ | 8 A   |
| AWG/kcmil             | 28-16 |

#### CUL

|                       |       |
|-----------------------|-------|
| Nominal voltage $U_N$ | 300 V |
| Nominal current $I_N$ | 8 A   |
| AWG/kcmil             | 30-16 |

#### UL

|                       |       |
|-----------------------|-------|
| Nominal voltage $U_N$ | 300 V |
| Nominal current $I_N$ | 8 A   |
| AWG/kcmil             | 30-16 |

**Accessories**

| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

**Marking**

|         |                          |   |
|---------|--------------------------|---|
| 1051993 | B-STIFT                  | Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm   |
| 0804109 | SK 3,81/2,8:FORTL.ZAHLEN | Marker card, printed horizontally, self-adhesive, 10-section marker strip, 14 identical decades marked 1-10, 11-20 etc. up to 91-(99)100, sufficient for 140 terminal blocks              |
| 0805056 | SK 3,81/2,8:SO           | Marker card, special printing, self-adhesive, labeled acc. to customer requirements, 14 identical marker strips per card, max. 25-position labeling per strip, color: White               |
| 0803883 | SK U/2,8 WH:UNBEDRUCKT   | Unprinted marker cards, DIN A4 format, pitch as desired, self-adhesive, with 50 stamped marker strips, 185 mm strip length, can be labeled with the CMS system or manually with the M-PEN |

**Tools**

|         |             |  |
|---------|-------------|--|
| 1205037 | SZS 0,4X2,5 | Screwdriver, bladed, matches all screw terminal blocks up to 1.5 mm <sup>2</sup> connection cross section, blade: 0.4 x 2.5 mm |
|---------|-------------|--|

**Additional products**

| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

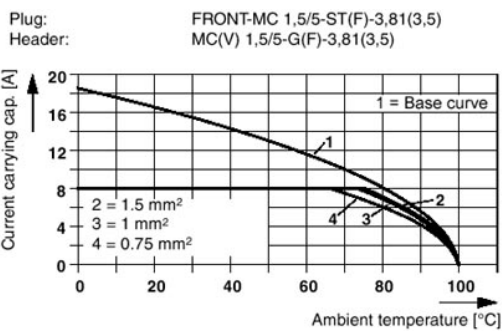
**General**

|         |                      |  |
|---------|----------------------|--|
| 1897830 | EMC 1,5/ 5-G-3,81    | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Press-in                        |
| 1860676 | EMCV 1,5/ 5-G-3,81   | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Press-in                        |
| 1857919 | IMC 1,5/ 5-ST-3,81   | Plug component, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Connection type: Screw connection, Color: green |
| 1803303 | MC 1,5/ 5-G-3,81     | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering                       |
| 1908790 | MC 1,5/ 5-G-3,81 THT | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: black, Assembly: SMD/THT/THR                     |
| 1829989 | MCD 1,5/ 5-G-3,81    | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering                       |
| 1843101 | MCD 1,5/ 5-G1-3,81   | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering                       |
| 1830431 | MCDV 1,5/ 5-G-3,81   | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering                       |

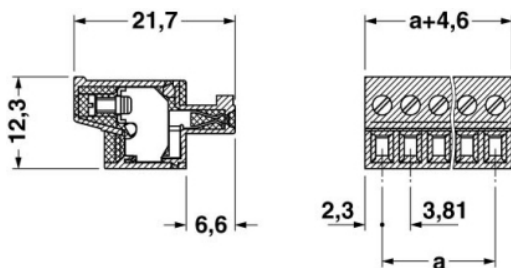
|         |                     |   |
|---------|---------------------|---|
| 1847754 | MCDV 1,5/ 5-G1-3,81 | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering        |
| 1861756 | MCO 1,5/ 5-GL-3,81  | Header, Nominal current: 8 A, Nom. voltage: 125 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering        |
| 1861675 | MCO 1,5/ 5-GR-3,81  | Header, Nominal current: 8 A, Nom. voltage: 125 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering        |
| 1803455 | MCV 1,5/ 5-G-3,81   | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering        |
| 1837463 | MCVDU 1,5/ 5-G-3,81 | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering        |
| 1832769 | MCVK 1,5/ 5-G-3,81  | Plug component, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Assembly: DIN rail, Color: green |
| 1827305 | SMC 1,5/ 5-G-3,81   | Header, Nominal current: 8 A, Nom. voltage: 160 V, Pitch: 3.81 mm, Number of positions: 5, Color: green, Assembly: Soldering        |

### Diagrams/Drawings

#### Diagram



#### Dimensioned drawing



**Address**

PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 00  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>



© 2010 Phoenix Contact  
Technical modifications reserved;

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [phoenix contact manufacturer](#):*

Other Similar products are found below :

[1203259](#) [3240366](#) [1893300](#) [2800744](#) [2867076](#) [3006564](#) [2800741](#) [5146480](#) [1582539](#) [1623633](#) [1507793](#) [3025587](#) [3069708](#) [1582223](#)  
[1431461](#) [1586976](#) [0311647](#) [1460160](#) [1771338](#) [3048387](#) [2814605](#) [0309086](#) [1513716](#) [3035684](#) [5451417](#) [0202219](#) [1647747](#) [1730667](#)  
[1709267](#) [5449018](#) [0311634](#) [1730696](#) [3034057](#) [0311579](#) [1730683](#) [0719032](#) [5449843](#) [3240098](#) [0311566](#) [0201391](#) [CRIMPFOX 16 S](#)  
[CRIMPSET 25](#) [7001438](#) [ETD-BL-1T-F-300S](#) [MCR-1CLP-I-I-00](#) [MCR-4CLP-I-I-00](#) [MCR-DAC 8-I- 4-BUS](#) [FL EPA WMS](#) [FLK 50/EZ-DR/](#)  
[400/KONFEK/S](#) [FLS PB M12 DO 8 M12-2A](#)