

# Printed-circuit board connector - FRONT-MC 1,5/12-ST-3,81 - 1850767

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Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

## Product description


Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

## Why buy this product

- Generously dimensioned wiring space
- Pitch: 3.81 mm
- Screwdriver axis parallel to the conductor axis
- Plug with front screw connection
- Individual position keying by removing the keying tab and connecting the keying profile to the header



## Key commercial data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1   |
| Minimum order quantity               | 1   |
| Catalog page                         | Page 182 (CC-2011)  |
| GTIN                                 | <br>4 017918 105235 |
| Weight per piece (including packing) | 0.0 GRM   |
| Weight per Piece (excluding packing) | 15.38 GRM   |
| Country of origin                    | GERMANY   |

## Technical data

### Dimensions / positions

|                     |          |
|---------------------|----------|
| Height              | 12.3 mm  |
| Pitch               | 3.81 mm  |
| Dimension a         | 41.91 mm |
| Number of positions | 12       |

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## Technical data

### Dimensions / positions

|                        |         |
|------------------------|---------|
| Screw thread           | M2      |
| Tightening torque, min | 0.22 Nm |
| Tightening torque max  | 0.25 Nm |

### Technical data

|   |  |
|---|--|
| Range of articles                       | FRONT-MC 1,5/...-ST                                    |
| 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 <sub>N</sub>          | 8 A  |
| Nominal voltage U <sub>N</sub>          | 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 according to UL 94 | V0   |
| Internal cylindrical gage               | A1   |
| Stripping length                        | 9 mm   |
| Nominal voltage, UL/CUL Use Group B     | 300 V  |
| Nominal current, UL/CUL Use Group B     | 8 A  |
| Nominal voltage, UL/CUL Use Group D     | 300 V  |
| Nominal current, UL/CUL Use Group D     | 8 A  |

### 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> |

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## Technical data

### Connection data

|   |                      |
|---|----------------------|
| 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>  |
| Minimum AWG according to UL/CUL   | 30                   |
| Maximum AWG according to UL/CUL   | 16                   |

## Classifications

### eclass

|            |          |
|------------|----------|
| eClass 4.0 | 272607xx |
| eClass 4.1 | 27260701 |
| eClass 5.0 | 27260701 |
| eClass 5.1 | 27260701 |
| eClass 6.0 | 27260704 |

### etim

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |

### unspsc

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

## Approvals

### Certificates

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#### Certification

CSA / UL Recognized / VDE report with production monitoring / cUL Recognized / IECEE CB Scheme / cULus Recognized

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#### Certification EX

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## Approvals

Certification submitted

### Approval details

| CSA                            |       |       |
|--------------------------------|-------|-------|
|                                | B     | D     |
| mm <sup>2</sup> /AWG/kcmil     | 28-16 | 28-16 |
| Nominal current I <sub>N</sub> | 8 A   | 8 A   |
| Nominal voltage U <sub>N</sub> | 300 V | 300 V |

| UL Recognized                  |       |       |
|--------------------------------|-------|-------|
|                                | B     | D     |
| mm <sup>2</sup> /AWG/kcmil     | 30-16 | 30-16 |
| Nominal current I <sub>N</sub> | 8 A   | 8 A   |
| Nominal voltage U <sub>N</sub> | 300 V | 300 V |

| VDE report with production monitoring |         |
|---------------------------------------|---------|
|                                       |         |
| mm <sup>2</sup> /AWG/kcmil            | 0.2-1.5 |
| Nominal current I <sub>N</sub>        | 8 A     |
| Nominal voltage U <sub>N</sub>        | 160 V   |

| cUL Recognized                 |       |       |
|--------------------------------|-------|-------|
|                                | B     | D     |
| mm <sup>2</sup> /AWG/kcmil     | 30-16 | 30-16 |
| Nominal current I <sub>N</sub> | 8 A   | 8 A   |
| Nominal voltage U <sub>N</sub> | 300 V | 300 V |

| IECEE CB Scheme                |         |
|--------------------------------|---------|
|                                |         |
| mm <sup>2</sup> /AWG/kcmil     | 0.2-1.5 |
| Nominal current I <sub>N</sub> | 8 A     |
| Nominal voltage U <sub>N</sub> | 160 V   |

| cULus Recognized |
|------------------|
|                  |

## Accessories

Accessories

Marking

## Printed-circuit board connector - FRONT-MC 1,5/12-ST-3,81 - 1850767

### Accessories

Marker cards - SK 3,81/2,8:FORTL.ZAHLEN - 0804109

Marker cards, Card, white, Labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type:



Marker cards - SK 3,81/2,8:SO - 0805056

Marker cards, white, Mounting type: Adhesive, For terminal block width: 3.81 mm



Marker cards - SK U/2,8 WH:UNBEDRUCKT - 0803883

Marker cards, Sheet, white, Unlabeled, Can be labeled with: Plotter, Office-Drucksysteme, Mounting type: Adhesive



Marker pen - B-STIFT - 1051993

Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm



### Tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037

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



### Additional products

## Printed-circuit board connector - FRONT-MC 1,5/12-ST-3,81 - 1850767

### Accessories

Base strip - MCDV 1,5/12-G-3,81 - 1830509

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su



Base strip - MCDV 1,5/12-G1-3,81 - 1847835

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su



Base strip - MCD 1,5/12-G-3,81 - 1830059

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su



Base strip - MCD 1,5/12-G1-3,81 - 1843172

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su



Printed-circuit board connector - IMC 1,5/12-ST-3,81 - 1857980

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Connection me



# Printed-circuit board connector - FRONT-MC 1,5/12-ST-3,81 - 1850767

## Accessories

Base strip - MCVK 1,5/12-G-3,81 - 1832837



Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Connection me

Base strip - MCVDU 1,5/12-G-3,81 - 1837531



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su

Base strip - MCV 1,5/12-G-3,81 - 1803523



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su

Base strip - MC 1,5/12-G-3,81 - 1803374



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su

Base strip - MC 1,5/12-G-3,81 THT - 1908868



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: Black, Contact su

## Printed-circuit board connector - FRONT-MC 1,5/12-ST-3,81 - 1850767

### Accessories

Base strip - SMC 1,5/12-G-3,81 - 1827376

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su



Base strip - EMCV 1,5/12-G-3,81 - 1860744

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su



Base strip - EMC 1,5/12-G-3,81 - 1897908

Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 12, Pitch: 3.81 mm, Color: green, Contact su

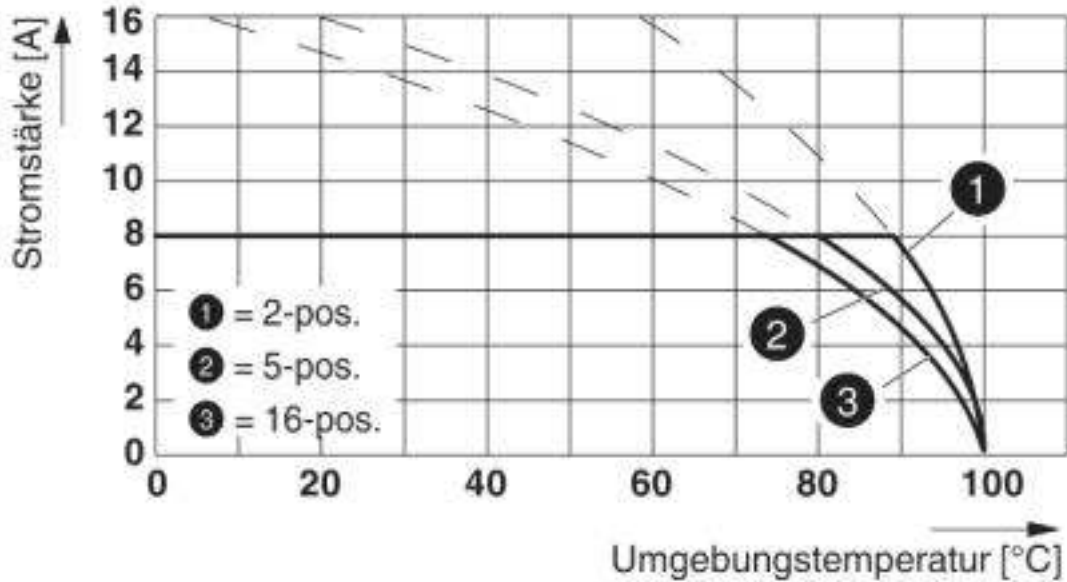


### Drawings



# Printed-circuit board connector - FRONT-MC 1,5/12-ST-3,81 - 1850767

Diagram



Type: FRONT-MC 1,5/...-ST-3,81 with SMC 1,5/...-G-3,81

Dimensioned drawing

