

## Printed-circuit board connector - MC 1,5/ 7-STZ2-3,81 - 1768949

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Plug component, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 7, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin


The figure shows the 10-position version

### Why buy this product

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 STK   |
| Minimum order quantity               | 50 STK  |
| GTIN                                 | <br>4 046356 444767 |
| GTIN                                 | 4046356444767   |
| Weight per Piece (excluding packing) | 4.800 g   |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 41 mm    |
| Width [ w ]  | 27.46 mm |
| Height [ h ] | 11.6 mm  |
| Pitch        | 3.81 mm  |

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## Technical data

### Dimensions

|             |          |
|-------------|----------|
| Dimension a | 22.86 mm |
|-------------|----------|

### General

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Range of articles                | MC 1,5/...-STZ                       |
| Type of contact                  | Female connector                     |
| Number of positions              | 7                                    |
| Connection method                | Screw connection with tension sleeve |
| 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/3)            | 160 V                                |
| 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 cross section            | 1.5 mm <sup>2</sup>                  |
| Internal cylindrical gage        | A1                                   |
| Stripping length                 | 7 mm                                 |
| Screw thread                     | M2                                   |
| Tightening torque, min           | 0.22 Nm                              |
| Tightening torque max            | 0.25 Nm                              |

### 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 flexible min.   | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.            | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.            | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.               | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.               | 0.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.  | 28                   |
| Conductor cross section AWG max.  | 16                   |
| 2 conductors with same cross section, solid min.                                      | 0.08 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.                                   | 0.08 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> |

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## Technical data

### Connection data

|   |                      |
|---|----------------------|
| 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   | 14                   |

### Standards and Regulations

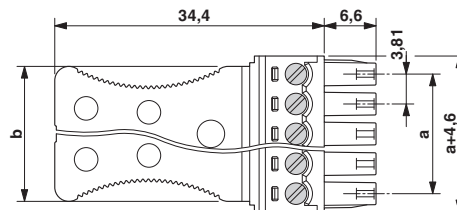
|                                  |        |
|----------------------------------|--------|
| Connection in acc. with standard | EN-VDE |
|                                  | CUL    |

### Environmental Product Compliance

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

## Drawings

Dimensional drawing



## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |

### UNSPSC

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

## Approvals


### Approvals


#### Approvals

VDE Gutachten mit Fertigungsüberwachung / cULus Recognized / IECEE CB Scheme / EAC

#### Ex Approvals

### Approval details


|   |   |   |          |
|---|---|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a> | 40011723 |
| 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           |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E60425-20110128 |
|                            | B   | D   |                 |
| mm <sup>2</sup> /AWG/kcmil | 30-14   | 30-14   |                 |

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### Approvals

|                    | B     | D     |
|--------------------|-------|-------|
| Nominal current IN | 8 A   | 8 A   |
| Nominal voltage UN | 300 V | 300 V |

|                            |   |   |                |
|----------------------------|---|---|----------------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-59621-B1B2 |
| mm <sup>2</sup> /AWG/kcmil | 0.2-1.5   |   |                |
| Nominal current IN         | 8 A   |   |                |
| Nominal voltage UN         | 160 V   |   |                |

|     |   |         |
|-----|---|---------|
| EAC |  | B.01742 |
|-----|---|---------|