

# Printed-circuit board connector - MC 1,5/12-ST-3,81 BD:1-12 - 1900743

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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

## Key commercial data

|                  |               |
|------------------|---------------|
| package_quantity | 50            |
| GTIN             | 4017918428822 |

## Technical data

### Dimensions

|             |          |
|-------------|----------|
| Height      | 11.1 mm  |
| Pitch       | 3.81 mm  |
| Dimension a | 41.91 mm |

### General

|   |  |
|---|--|
| Range of articles                       | 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/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>                                    |
| 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               | A 1  |
| Stripping length                        | 7 mm   |
| Number of positions                     | 12   |

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## Technical data

### General

|                               |         |
|-------------------------------|---------|
| <b>Screw thread</b>           | M2      |
| <b>Tightening torque, min</b> | 0.22 Nm |
| <b>Tightening torque max</b>  | 0.25 Nm |

### Connection data

|  |                      |
|--|----------------------|
| <b>Conductor cross section solid min.</b>  | 0.14 mm <sup>2</sup> |
| <b>Conductor cross section solid max.</b>  | 1.5 mm <sup>2</sup>  |
| <b>Conductor cross section stranded min.</b>   | 0.14 mm <sup>2</sup> |
| <b>Conductor cross section stranded max.</b>   | 1.5 mm <sup>2</sup>  |
| <b>Conductor cross section stranded, with ferrule without plastic sleeve min.</b>              | 0.25 mm <sup>2</sup> |
| <b>Conductor cross section stranded, with ferrule without plastic sleeve max.</b>              | 1.5 mm <sup>2</sup>  |
| <b>Conductor cross section stranded, with ferrule with plastic sleeve min.</b>                 | 0.25 mm <sup>2</sup> |
| <b>Conductor cross section stranded, with ferrule with plastic sleeve max.</b>                 | 0.5 mm <sup>2</sup>  |
| <b>Conductor cross section AWG/kcmil min.</b>  | 28                   |
| <b>Conductor cross section AWG/kcmil max</b>   | 16                   |
| <b>2 conductors with same cross section, solid min.</b>  | 0.08 mm <sup>2</sup> |
| <b>2 conductors with same cross section, solid max.</b>  | 0.5 mm <sup>2</sup>  |
| <b>2 conductors with same cross section, stranded min.</b>                                     | 0.08 mm <sup>2</sup> |
| <b>2 conductors with same cross section, stranded max.</b>                                     | 0.75 mm <sup>2</sup> |
| <b>2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.</b>   | 0.25 mm <sup>2</sup> |
| <b>2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.</b>   | 0.34 mm <sup>2</sup> |
| <b>2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.</b> | 0.5 mm <sup>2</sup>  |
| <b>2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.</b> | 0.5 mm <sup>2</sup>  |
| <b>Minimum AWG according to UL/CUL</b>   | 30                   |
| <b>Maximum AWG according to UL/CUL</b>   | 14                   |

## classifications

### eCl@ss

|                   |          |
|-------------------|----------|
| <b>eCl@ss 4.0</b> | 272607xx |
| <b>eCl@ss 4.1</b> | 27260701 |
| <b>eCl@ss 5.0</b> | 27260701 |
| <b>eCl@ss 5.1</b> | 27260701 |
| <b>eCl@ss 6.0</b> | 27260704 |
| <b>eCl@ss 7.0</b> | 27440402 |

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## classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 8.0 | 27440402 |
|------------|----------|

ETIM

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

UNSPSC

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

## approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / IECCEB Scheme / GOST / GOST / CCA / cULus Recognized /

### Approval details

| Usegroups                  | B     | D     |
|----------------------------|-------|-------|
| Nominal voltage UN         | 300 V | 300 V |
| Nominal current IN         | 8 A   | 8 A   |
| mm <sup>2</sup> /AWG/kcmil | 28-16 | 28-16 |

| Usegroups                  | B     | D     |
|----------------------------|-------|-------|
| Nominal voltage UN         | 300 V | 300 V |
| Nominal current IN         | 8 A   | 8 A   |
| mm <sup>2</sup> /AWG/kcmil | 30-14 | 30-14 |

|                    |       |
|--------------------|-------|
|                    |       |
| Nominal voltage UN | 160 V |

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## approvals

|                                |         |
|--------------------------------|---------|
| Nominal current I <sub>N</sub> | 8 A     |
| mm <sup>2</sup> /AWG/kcmil     | 0.2-1.5 |

**cUL Recognized**

| Usegroups                      | B     | D     |
|--------------------------------|-------|-------|
| Nominal voltage U <sub>N</sub> | 300 V | 300 V |
| Nominal current I <sub>N</sub> | 8 A   | 8 A   |
| mm <sup>2</sup> /AWG/kcmil     | 30-14 | 30-14 |

**IECEE CB Scheme**

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

**GOST**

**CCA**

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

**cULus Recognized**

## accessories

**Labeled terminal marker**

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## accessories

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



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## Screwdriver tools

SZS 0,4X2,5 VDE - 1205037



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## Marker pen

B-STIFT - 1051993



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## Cable housing

KGG-MC 1,5/12 - 1834440



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## Drawings

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