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## Printed-circuit board connector - FRONT-MC 1,5/19-ST-3,81 - 1850835

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Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 19, 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

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 109936 |
| Weight per Piece (excluding packing) | 31.0 GRM  |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|             |          |
|-------------|----------|
| Pitch       | 3.81 mm  |
| Dimension a | 68.58 mm |

#### General

|                             |                     |
|-----------------------------|---------------------|
| 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/3)       | 160 V               |
| Rated voltage (III/2)       | 160 V               |
| Rated voltage (II/2)        | 320 V               |

## Printed-circuit board connector - FRONT-MC 1,5/19-ST-3,81 - 1850835

### Technical data

#### General

|   |  |
|---|--|
| 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               | A1   |
| Stripping length                        | 9 mm   |
| Number of positions                     | 19   |
| 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 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>  |
| Minimum AWG according to UL/CUL   | 30                   |
| Maximum AWG according to UL/CUL   | 16                   |

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## 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 |

### 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

### Approvals

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#### Approvals

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

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

# Printed-circuit board connector - FRONT-MC 1,5/19-ST-3,81 - 1850835

## Approvals

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 Gutachten mit Fertigungsüberwachung

| 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     |

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## Approvals

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

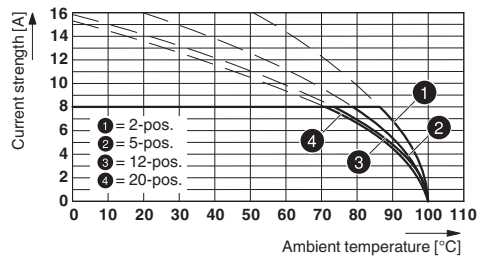
|      |
|------|
| GOST |
|------|

|                            |         |
|----------------------------|---------|
| CCA                        |         |
| mm <sup>2</sup> /AWG/kcmil | 0.2-1.5 |
| Nominal current IN         | 8 A     |
| Nominal voltage UN         | 160 V   |

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

## Drawings

Diagram



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

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Dimensioned drawing

