

# Printed-circuit board connector - FRONT-MSTB 2,5/21-ST-5,08 - 1777471

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Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 21, Pitch: 5.08 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 039622 |
| Weight per Piece (excluding packing) | 64.22 GRM   |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

## Technical data

### Dimensions

|             |          |
|-------------|----------|
| Pitch       | 5.08 mm  |
| Dimension a | 101.6 mm |

### General

|                             |                      |
|-----------------------------|----------------------|
| Range of articles           | FRONT-MSTB 2,5/..-ST |
| Insulating material group   | I                    |
| Rated surge voltage (III/3) | 4 kV                 |
| Rated surge voltage (III/2) | 4 kV                 |
| Rated surge voltage (II/2)  | 4 kV                 |
| Rated voltage (III/3)       | 250 V                |
| Rated voltage (III/2)       | 320 V                |
| Rated voltage (II/2)        | 630 V                |

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## Technical data

### General

|   |                     |
|---|---------------------|
| Connection in acc. with standard        | EN-VDE              |
| Nominal current $I_N$                   | 12 A                |
| Nominal cross section                   | 2.5 mm <sup>2</sup> |
| Maximum load current                    | 12 A                |
| Insulating material                     | PA                  |
| Inflammability class according to UL 94 | V0                  |
| Internal cylindrical gage               | A3                  |
| Stripping length                        | 10 mm               |
| Number of positions                     | 21                  |
| Screw thread                            | M2,5                |
| Tightening torque, min                  | 0.5 Nm              |
| Tightening torque max                   | 0.6 Nm              |

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.  | 2.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section stranded max.   | 2.5 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.              | 2.5 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.                 | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.  | 24                   |
| Conductor cross section AWG/kcmil max   | 12                   |
| 2 conductors with same cross section, solid min.  | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.  | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                     | 1.5 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.   | 1 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. | 1 mm <sup>2</sup>    |
| Minimum AWG according to UL/CUL   | 30                   |
| Maximum AWG according to UL/CUL   | 12                   |

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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 / GOST / 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-MSTB 2,5/21-ST-5,08 - 1777471

## Approvals

CSA

|                                | B     | D     |
|--------------------------------|-------|-------|
| mm <sup>2</sup> /AWG/kcmil     | 22-12 | 22-12 |
| Nominal current I <sub>N</sub> | 15 A  | 10 A  |
| Nominal voltage U <sub>N</sub> | 300 V | 300 V |

UL Recognized

|                                | B     | D     |
|--------------------------------|-------|-------|
| mm <sup>2</sup> /AWG/kcmil     | 30-12 | 30-12 |
| Nominal current I <sub>N</sub> | 15 A  | 10 A  |
| Nominal voltage U <sub>N</sub> | 300 V | 300 V |

VDE Gutachten mit Fertigungsüberwachung

| mm <sup>2</sup> /AWG/kcmil     | 0.34-2.5 |
|--------------------------------|----------|
| Nominal current I <sub>N</sub> | 12 A     |
| Nominal voltage U <sub>N</sub> | 250 V    |

cUL Recognized

|                                | B     | D     |
|--------------------------------|-------|-------|
| mm <sup>2</sup> /AWG/kcmil     | 30-12 | 30-12 |
| Nominal current I <sub>N</sub> | 15 A  | 10 A  |
| Nominal voltage U <sub>N</sub> | 300 V | 300 V |

GOST

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## Approvals

|                                |          |
|--------------------------------|----------|
| IECEE CB Scheme                |          |
| mm <sup>2</sup> /AWG/kcmil     | 0.34-2.5 |
| Nominal current I <sub>N</sub> | 12 A     |
| Nominal voltage U <sub>N</sub> | 250 V    |

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

|                                |          |
|--------------------------------|----------|
| CCA                            |          |
| mm <sup>2</sup> /AWG/kcmil     | 0.34-2.5 |
| Nominal current I <sub>N</sub> | 12 A     |
| Nominal voltage U <sub>N</sub> | 250 V    |

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

## Drawings

Dimensioned drawing

