

# Printed-circuit board connector - FRONT-MSTB 2,5/ 2-ST-5,08 - 1777280

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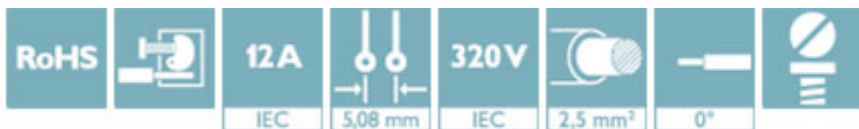
Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5.08 mm, Connection method: Front screw connection, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

## Why buy this product

- Well-known connection principle allows worldwide use
- Optimized for tight installation situations: operation and conductor connection from one direction
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors



## Key Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Packing unit                         | 100 STK       |
| GTIN                                 |               |
| GTIN                                 | 4017918039431 |
| Weight per Piece (excluding packing) | 5.920 g       |
| Custom tariff number                 | 85366990      |
| Country of origin                    | Germany       |

## Technical data

### Dimensions

|             |          |
|-------------|----------|
| Length      | 27.2 mm  |
| Height      | 15 mm    |
| Width       | 10.16 mm |
| Pitch       | 5.08 mm  |
| Dimension a | 5.08 mm  |

### General

|                   |                       |
|-------------------|-----------------------|
| Range of articles | FRONT-MSTB 2,5/...-ST |
| Type of contact   | Female connector      |

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## Technical data

### General

|  |                        |
|--|------------------------|
| Number of positions                    | 2                      |
| Connection method                      | Front screw connection |
| 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 250 V            |
| Rated voltage (III/2)                  | 320 V                  |
| Rated voltage (II/2)                   | 630 V                  |
| 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                     |
| Flammability rating according to UL 94 | V0                     |
| Internal cylindrical gage              | A3                     |
| Stripping length                       | 10 mm                  |
| Screw thread                           | M2,5                   |
| Tightening torque, min                 | 0.5 Nm                 |
| Tightening torque max                  | 0.6 Nm                 |

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.34 mm <sup>2</sup> |
| Conductor cross section solid max.  | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.   | 2.5 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.              | 2.5 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.                 | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.  | 24                   |
| Conductor cross section AWG 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 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>  |

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## Technical data

### Connection data

|   |                     |
|---|---------------------|
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm <sup>2</sup> |
| Minimum AWG according to UL/CUL   | 30                  |
| Maximum AWG according to UL/CUL   | 12                  |

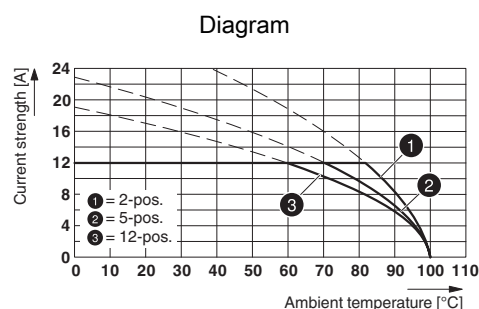
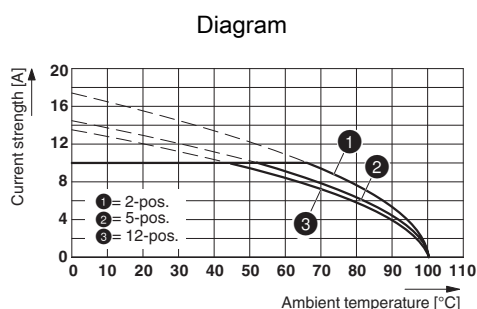
### Standards and Regulations

|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CSA    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

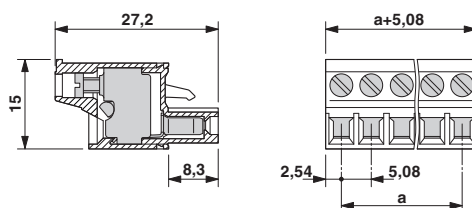
## Drawings



Type: FRONT-MSTB 2,5/...-ST-5,08 with MDSTBV 2,5/...-G-5,08

Type: FRONT-MSTB 2,5/...-ST-5,08 with CCVA 2,5/...-G-5,08 P26THR

### Dimensional drawing



## Approvals

### Approvals

### Approvals

CSA / VDE Gutachten mit Fertigungsüberwachung / IECCE CB Scheme / cULus Recognized / EAC

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## Approvals

Ex Approvals

### Approval details

|                                |  |   |       |
|--------------------------------|--|---|-------|
| CSA                            |  | <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a> | 13631 |
|                                |  | 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 |

|   |  |   |          |
|---|--|---|----------|
| 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> | 40004701 |
|   |  |   |          |
| 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   |          |

|                                |  |   |                |
|--------------------------------|--|---|----------------|
| IECEE CB Scheme                |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-56062-B1B2 |
|                                |  |   |                |
| 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               |  | <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> | E60425-19931011 |
|                                |  | 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           |

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

