

<https://www.phoenixcontact.com/cn/products/1919718>

## Printed-circuit board connector - MSTBT 2,5/ 2-STF - 1919718

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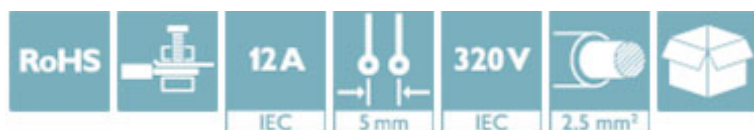
Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 2, Pitch: 5 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

### Why buy this product

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Screwable flange for superior mechanical stability
- ✓ Allows connection of two conductors



### Key Commercial Data

|                        |               |
|------------------------|---------------|
| Packing unit           | 50 STK        |
| Minimum order quantity | 50 STK        |
| GTIN                   |               |
| GTIN                   | 4017918193492 |
| Custom tariff number   | 8536909000    |
| Sales Key              | AAAFAA        |

### Technical data

#### Dimensions

|             |      |
|-------------|------|
| Pitch       | 5 mm |
| Dimension a | 5 mm |

#### General

|                           |                                      |
|---------------------------|--------------------------------------|
| Range of articles         | MSTBT 2,5/...-STF                    |
| Type of contact           | Female connector                     |
| Number of positions       | 2                                    |
| Connection method         | Screw connection with tension sleeve |
| Insulating material group | I                                    |

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### Technical data

#### General

|                                        |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| 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                                                     |
| 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 (with a 2.5 mm <sup>2</sup> conductor cross section) |
| Insulating material                    | PA                                                        |
| Flammability rating according to UL 94 | V2                                                        |
| Internal cylindrical gage              | A3                                                        |
| Stripping length                       | 7 mm                                                      |
| Screw thread                           | M3                                                        |
| 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 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>  |
| 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                   |

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## Technical data

### Connection data

|                                 |    |
|---------------------------------|----|
| Maximum AWG according to UL/CUL | 12 |
|---------------------------------|----|

### Standards and Regulations

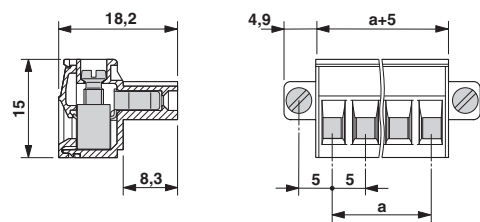
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CSA    |
| Flammability rating according to UL 94 | V2     |

### 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



## Approvals

### Approvals

|                                                                                        |
|----------------------------------------------------------------------------------------|
| Approvals                                                                              |
| CSA / VDE Gutachten mit Fertigungsüberwachung / IECCEB Scheme / cULus Recognized / EAC |

### 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                                                                                                                                                                                         |       |
| mm²/AWG/kcmil                  | 28-12                                                                               | 28-12                                                                                                                                                                                     |       |
| Nominal current I <sub>N</sub> | 10 A                                                                                | 10 A                                                                                                                                                                                      |       |
| Nominal voltage U <sub>N</sub> | 300 V                                                                               | 300 V                                                                                                                                                                                     |       |

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### Approvals

|                                            |                                                                                   |                                                                                                                                                                                                              |          |
|--------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/<br/>VDE-approved-products/Pages/Online-Search.aspx</a> | 40004701 |
|                                            |                                                                                   |                                                                                                                                                                                                              |          |
| mm²/AWG/kcmil                              | 0.2-2.5                                                                           |                                                                                                                                                                                                              |          |
| 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 |         |
|                                |  |                                                                                   |                                                           |                |         |
| mm²/AWG/kcmil                  |  |                                                                                   |                                                           |                | 0.2-2.5 |
| 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 |
|-----|-------------------------------------------------------------------------------------|---------|

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