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## Printed-circuit board connector - MSTBC 2,5/ 3-STZ-5,08 - 1809514

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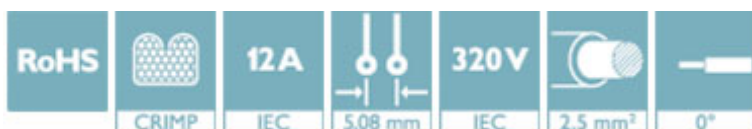


The figure shows an 10-position version

PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5.08 mm, connection method: Crimp connection, color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte

### Why buy this product

- ✓ Inexpensive connection of large quantities of pre-assembled conductors
- ✓ Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point



### Key Commercial Data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 50 STK                                                                                                  |
| Minimum order quantity | 50 STK                                                                                                  |
| GTIN                   | <br>4 017918 047658 |
| GTIN                   | 4017918047658                                                                                           |

### Technical data

#### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 25 mm    |
| Width [ w ]  | 15.2 mm  |
| Height [ h ] | 10.5 mm  |
| Pitch        | 5.08 mm  |
| Dimension a  | 10.16 mm |

#### General

|                           |                   |
|---------------------------|-------------------|
| Range of articles         | MSTBC 2,5/...-STZ |
| Type of contact           | Female connector  |
| Number of positions       | 3                 |
| Connection method         | Crimp connection  |
| 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)                  | 320 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                  |

### Connection data

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section flexible min. | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 20                  |
| Conductor cross section AWG max.      | 14                  |
| Minimum AWG according to UL/CUL       | 20                  |
| Maximum AWG according to UL/CUL       | 14                  |

### Standards and Regulations

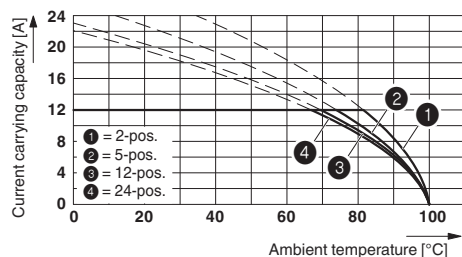
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
|                                        | CSA    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

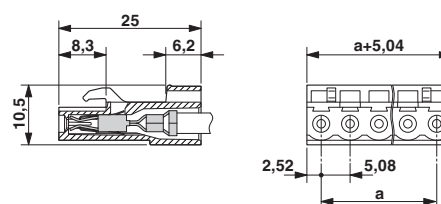
|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Diagram



Dimensional drawing



Type: MSTBC 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08; contact: MSTBC-MT 1,5 - 2,5

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## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals

### Approval details

|     |                                                                                   |                                                                                                                                         |       |
|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|     |                                                                                   | Nominal voltage UN                                                                                                                      | 300 V |
|     |                                                                                   | Nominal current IN                                                                                                                      | 10 A  |
|     |                                                                                   | mm²/AWG/kcmil                                                                                                                           | 20-14 |

|                    |                                                                                     |                                                                                                                                                       |              |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL 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> | FILE E 60425 |
|                    | D                                                                                   | B                                                                                                                                                     |              |
| Nominal voltage UN | 300 V                                                                               | 250 V                                                                                                                                                 |              |
| Nominal current IN | 10 A                                                                                | 10 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 20-14                                                                               | 20-14                                                                                                                                                 |              |

|                                            |                                                                                     |                                                                                                                                                                                                                |          |
|--------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/<br/>VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40004701 |
|                                            |                                                                                     | Nominal voltage UN                                                                                                                                                                                             | 250 V    |
|                                            |                                                                                     | Nominal current IN                                                                                                                                                                                             | 10 A     |
|                                            |                                                                                     | mm²/AWG/kcmil                                                                                                                                                                                                  | 0.5-1.0  |

|                    |                                                                                     |                                                                                                                                                       |              |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL 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> | FILE E 60425 |
|                    | D                                                                                   | B                                                                                                                                                     |              |
| Nominal voltage UN | 300 V                                                                               | 250 V                                                                                                                                                 |              |
| Nominal current IN | 10 A                                                                                | 10 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 20-14                                                                               | 20-14                                                                                                                                                 |              |

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### Approvals

|                            |                     |                                                           |                |
|----------------------------|---------------------|-----------------------------------------------------------|----------------|
| IECEE CB Scheme            | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-58978-B1B2 |
| Nominal voltage UN         |                     | 250 V                                                     |                |
| Nominal current IN         |                     | 10 A                                                      |                |
| mm <sup>2</sup> /AWG/kcmil |                     | 0.5-1.0                                                   |                |

|                  |              |                                                                                                                                                       |
|------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| cULus Recognized | <b>cULus</b> | <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> |
|------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

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