

# Printed-circuit board connector - MSTB 2,5 HC/ 3-ST-5,08 - 1911978

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Plug component, Nominal current: 16 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5.08 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

The figure shows a 10-position version of the product

## Product Features

- ✓ Available as a T version (MSTBT 2,5 HC)
- ✓ The double steel spring provides additional safety, especially in the event of temperature and power fluctuations
- ✓ CP-MSTB coding profiles as protection against mismatching
- ✓ The "High Current" (HC) versions transmit a current of 16 A

## Key commercial data

|                  |               |
|------------------|---------------|
| package_quantity | 50            |
| GTIN             | 4017918191122 |

## Technical data

### Dimensions

|             |          |
|-------------|----------|
| Pitch       | 5.08 mm  |
| Dimension a | 10.16 mm |

### General

|                                  |                           |
|----------------------------------|---------------------------|
| Range of articles                | MSTB 2,5 HC/...-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                     |
| Connection in acc. with standard | EN-VDE                    |
| Nominal current $I_N$            | 16 A (see derating curve) |
| Nominal cross section            | 2.5 mm <sup>2</sup>       |
| Maximum load current             | 16 A                      |
| Insulating material              | PA                        |

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## Technical data

### General

|                                         |        |
|-----------------------------------------|--------|
| Inflammability class according to UL 94 | V0     |
| Internal cylindrical gage               | A3     |
| Stripping length                        | 7 mm   |
| Number of positions                     | 3      |
| 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 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 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                   |
| Maximum AWG according to UL/CUL                                                         | 12                   |

## classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |

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## classifications

### eCl@ss

|                   |          |
|-------------------|----------|
| <b>eCl@ss 5.0</b> | 27260701 |
| <b>eCl@ss 5.1</b> | 27260701 |
| <b>eCl@ss 6.0</b> | 27260704 |
| <b>eCl@ss 7.0</b> | 27440402 |
| <b>eCl@ss 8.0</b> | 27440402 |

### ETIM

|                 |          |
|-----------------|----------|
| <b>ETIM 3.0</b> | EC001121 |
| <b>ETIM 4.0</b> | EC002638 |
| <b>ETIM 5.0</b> | EC002638 |

### UNSPSC

|                      |          |
|----------------------|----------|
| <b>UNSPSC 6.01</b>   | 30211810 |
| <b>UNSPSC 7.0901</b> | 39121409 |
| <b>UNSPSC 11</b>     | 39121409 |
| <b>UNSPSC 12.01</b>  | 39121409 |
| <b>UNSPSC 13.2</b>   | 39121409 |

## approvals

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

### Approval details

| <b>UL Recognized</b>  |       |       |
|----------------------------------------------------------------------------------------------------------|-------|-------|
| Usegroups                                                                                                | B     | D     |
| Nominal voltage UN                                                                                       | 300 V | 300 V |
| Nominal current IN                                                                                       | 16 A  | 10 A  |
| mm²/AWG/kcmil                                                                                            | 30-12 | 30-12 |

|                                                                                                                                    |         |
|------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>VDE Gutachten mit Fertigungsüberwachung</b>  |         |
| Nominal voltage UN                                                                                                                 | 250 V   |
| Nominal current IN                                                                                                                 | 16 A    |
| mm²/AWG/kcmil                                                                                                                      | 0.2-2.5 |

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approvals

| cUL Recognized  |       |       |
|--------------------------------------------------------------------------------------------------|-------|-------|
| Usegroups                                                                                        | B     | D     |
| Nominal voltage UN                                                                               | 300 V | 300 V |
| Nominal current IN                                                                               | 16 A  | 10 A  |
| mm²/AWG/kcmil                                                                                    | 30-12 | 30-12 |

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

| IECEE CB Scheme  |         |
|---------------------------------------------------------------------------------------------------|---------|
|                                                                                                   |         |
| Nominal voltage UN                                                                                | 250 V   |
| Nominal current IN                                                                                | 16 A    |
| mm²/AWG/kcmil                                                                                     | 0.2-2.5 |

|                                                                                     |
|-------------------------------------------------------------------------------------|
|  |
|-------------------------------------------------------------------------------------|

| CCA                |         |
|--------------------|---------|
|                    |         |
| Nominal voltage UN | 250 V   |
| Nominal current IN | 16 A    |
| mm²/AWG/kcmil      | 0.2-2.5 |

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

accessories

**Screwdriver tools**

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### accessories

SZS 0,6X3,5 - 1205053



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### Labeled terminal marker

SK 5,08/3,8:FORTL.ZAHLEN - 0804293



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### Cable housing

KGG-MSTB 2,5/ 2 - 1803934



KGS-MSTB 2,5/ 8 - 1783779



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### Coding element

CP-MSTB - 1734634



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accessories

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### Bridge

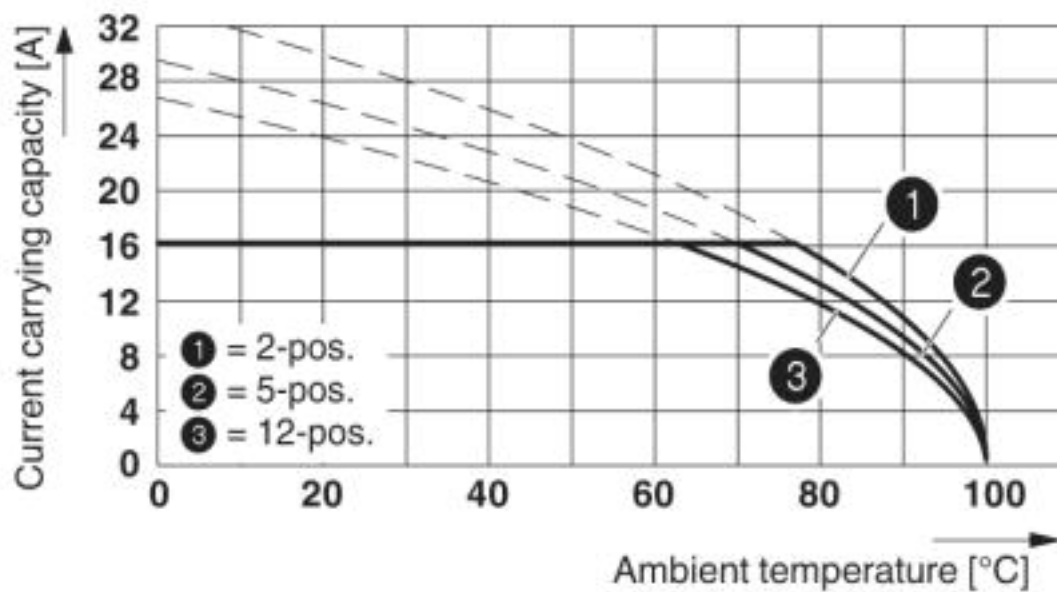
EBP 2- 5 - 1733169



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### Drawings

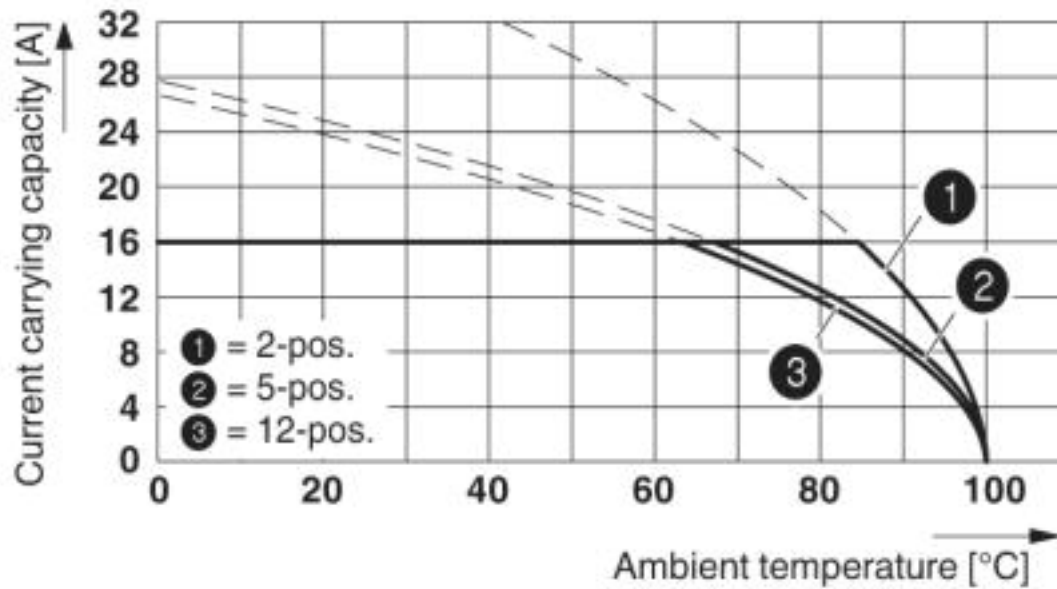
Diagram



Derating curve for: MSTB 2,5 HC/...-ST with MSTBA 2,5 HC/...-G

## Printed-circuit board connector - MSTB 2,5 HC/ 3-ST-5,08 - 1911978

Diagram



Derating curve for: MSTB 2,5 HC/...-ST with MSTBVA 2,5 HC/...-G

Dimensioned drawing

