

# Printed-circuit board connector - MSTB 2,5 HC/ 7-ST-5,08 BD:NZSO - 1951925

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PCB connector, nominal current: 16 A, number of positions: 7, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin




The figure shows a 10-position version of the product

## Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors
- ✓ Integrated double steel spring provides additional safety in the event of temperature and power fluctuations



## Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| Minimum order quantity               | 50 pc   |
| GTIN                                 | <br>4 017918 896331 |
| GTIN                                 | 4017918896331   |
| Weight per Piece (excluding packing) | 12.400 g  |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

## Technical data

### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 18.2 mm  |
| Width [ w ]  | 35.56 mm |

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## Technical data

### Dimensions

|              |          |
|--------------|----------|
| Height [ h ] | 15 mm    |
| Pitch        | 5.08 mm  |
| Dimension a  | 30.48 mm |

### General

|  |                                      |
|--|--------------------------------------|
| Range of articles                      | MSTB 2,5 HC/...-ST                   |
| Number of positions                    | 7                                    |
| Connection method                      | Screw connection with tension sleeve |
| 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                                   |
| Flammability rating according to UL 94 | V0                                   |
| 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                   |

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### Technical data

#### Connection data

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

#### Standards and Regulations

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

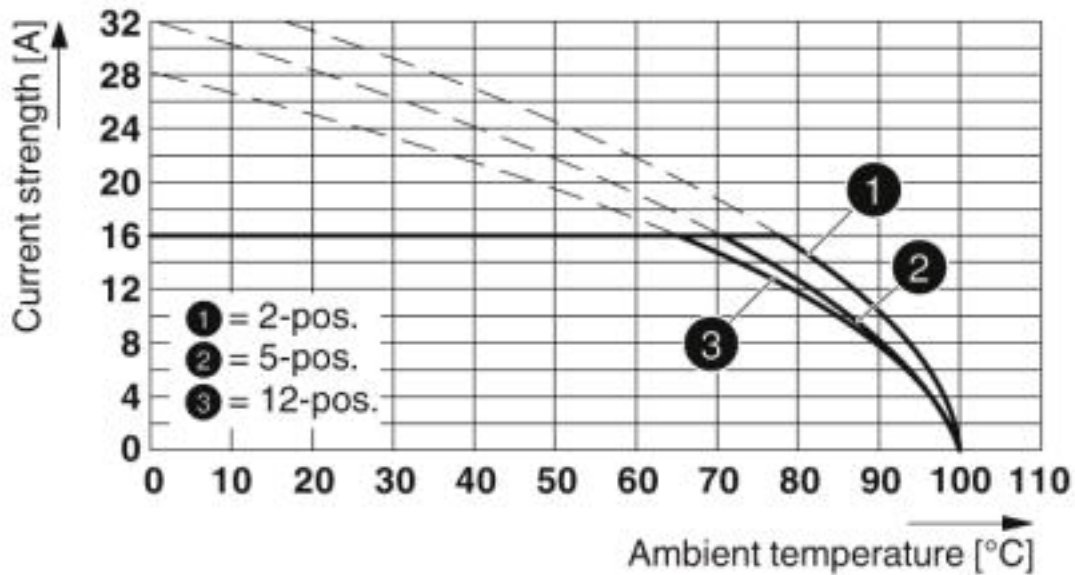
#### Environmental Product Compliance

|            |   |
|------------|---|
|            | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

# Printed-circuit board connector - MSTB 2,5 HC/ 7-ST-5,08 BD:NZSO - 1951925

Diagram



Type: FKIC 2,5 HC/...-ST- 5,08 with MSTB 2,5 HC/...-ST-5,08

## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440309 |
| eCl@ss 8.0 | 27440309 |
| eCl@ss 9.0 | 27440309 |

ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |
| ETIM 6.0 | EC002638 |
| ETIM 7.0 | EC002638 |

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## Classifications

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211810 |
| UNSPSC 7.0901 | 39121409 |
| UNSPSC 11     | 39121409 |
| UNSPSC 12.01  | 39121409 |
| UNSPSC 13.2   | 39121409 |

## Approvals


### Approvals


#### Approvals


IECEE CB Scheme / EAC / cULus Recognized / VDE Zeichengenehmigung

#### Ex Approvals

### Approval details

|                            |   |   |                |
|----------------------------|---|---|----------------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60988-B1B2 |
| Nominal voltage UN         | 250 V   |   |                |
| Nominal current IN         | 16 A  |   |                |
| mm <sup>2</sup> /AWG/kcmil | 0.2-2.5   |   |                |


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

|                    |   |   |                 |
|--------------------|---|---|-----------------|
| 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   |                 |
| Nominal voltage UN | 300 V   | 150 V   |                 |
| Nominal current IN | 16 A  | 15 A  |                 |

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## Approvals

|                            |       |       |
|----------------------------|-------|-------|
|                            | B     | D     |
| mm <sup>2</sup> /AWG/kcmil | 30-12 | 30-12 |

|                            |   |   |          |
|----------------------------|---|---|----------|
| VDE Zeichengenehmigung     |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40050079 |
| Nominal voltage UN         | 250 V   |   |          |
| Nominal current IN         | 16 A  |   |          |
| mm <sup>2</sup> /AWG/kcmil | 0.2-2.5   |   |          |

## Accessories

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#### Bridge

Insertion bridge - EBP 2- 5 - 1733169



Insertion bridge - EBP 3- 5 - 1733172



Insertion bridge - EBP 4- 5 - 1733185



## Printed-circuit board connector - MSTB 2,5 HC/ 7-ST-5,08 BD:NZSO - 1951925

### Accessories

Insertion bridge - EBP 5- 5 - 1733198



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### Cable housing

Cable housing - KGG-MSTB 2,5/ 2 - 1803934



Cable housing, pitch: 0 mm, number of positions: 2, dimension a: 10 mm, color: green

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Cable housing - KGG-MSTB 2,5/ 7 - 1803918



Cable housing, pitch: 0 mm, number of positions: 7, dimension a: 35 mm, color: green

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### Coding element

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

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### Screwdriver tools

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### Accessories

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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### Additional products

Feed-through header - MSTBA 2,5 HC/ 7-G-5,08 - 1923911



PCB headers, nominal current: 16 A, number of positions: 7, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering

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Feed-through header - MSTBVA 2,5 HC/ 7-G-5,08 - 1924350



PCB headers, nominal current: 16 A, number of positions: 7, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering