

## FRONT-MSTB 2,5/ 8-ST-5,08

Order No.: 1777345

The figure shows a 10-position version of the product



<http://eshop.phoenixcontact.net/phoenix/treeViewClick.do?UID=1777345>

Plug component, Nominal current: 12 A, Nom. voltage: 250 V, Pitch:  
5.08 mm, Number of positions: 8, Connection type: Screw connection,  
Color: green

### Commercial data

|                          |                    |
|--------------------------|--------------------|
| EAN                      | 4017918039493      |
| Pack                     | 50 pcs.            |
| Customs tariff           | 85366990           |
| Weight/Piece             | 0.0241 KG          |
| Catalog page information | Page 204 (CC-2009) |

### Product notes

WEEE/RoHS-compliant since:  
09/08/2005



[http://  
www.download.phoenixcontact.com](http://www.download.phoenixcontact.com)  
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here has been taken from the  
online catalog. For comprehensive  
information and data, please refer  
to the user documentation. The  
General Terms and Conditions of  
Use apply to Internet downloads.

### Technical data

#### Dimensions / positions

|                     |          |
|---------------------|----------|
| Pitch               | 5.08 mm  |
| Dimension a         | 35.56 mm |
| Number of positions | 8        |
| Screw thread        | M2,5     |

|                        |        |
|------------------------|--------|
| Tightening torque, min | 0.5 Nm |
| Tightening torque max  | 0.6 Nm |

#### Technical data

|                                    |                     |
|------------------------------------|---------------------|
| 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/2)              | 320 V               |
| Rated voltage (II/2)               | 630 V               |
| Connection in acc. with standard   | EN-VDE              |
| Nominal current $I_N$              | 12 A                |
| Nominal voltage $U_N$              | 250 V               |
| Nominal cross section              | 2.5 mm <sup>2</sup> |
| Maximum load current               | 12 A                |
| Insulating material                | PA                  |
| Inflammability class acc. to UL 94 | V0                  |
| Internal cylindrical gage          | A3                  |
| Stripping length                   | 10 mm               |

#### 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 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>  |

#### Certificates / Approvals



Certification

CB, CSA, CUL, GOST, UL, VDE-PZI

#### CSA

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 10 A  |
| AWG/kcmil                      | 22-12 |

#### CUL

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 10 A  |
| AWG/kcmil                      | 30-12 |

#### UL

|                                |       |
|--------------------------------|-------|
| Nominal voltage U <sub>N</sub> | 300 V |
| Nominal current I <sub>N</sub> | 10 A  |
| AWG/kcmil                      | 30-12 |

#### Accessories

| Item            | Designation   | Description                                                                                    |
|-----------------|---------------|------------------------------------------------------------------------------------------------|
| <b>Assembly</b> |               |                                                                                                |
| 1763058         | FRONT-MSTB-EW | Removal aid, for FRONT-MSTB, facilitates extraction of several plugs mounted behind each other |

#### Bridges

|         |          |                                                             |
|---------|----------|-------------------------------------------------------------|
| 2303145 | EBL 2- 5 | Cross connector/bridge, Number of positions: 2, Color: gray |
| 2303158 | EBL 3- 5 | Cross connector/bridge, Number of positions: 3, Color: gray |
| 2303161 | EBL 4- 5 | Cross connector/bridge, Number of positions: 4, Color: gray |
| 2303174 | EBL 5- 5 | Cross connector/bridge, Number of positions: 5, Color: gray |
| 2303190 | EBL 6- 5 | Cross connector/bridge, Number of positions: 6, Color: gray |

#### Marking

|         |                          |                                                                                                                                                                                           |
|---------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1051993 | B-STIFT                  | Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm                                                                               |
| 0805108 | SK 5,08/2,8:SO           | Marker card, special printing, self-adhesive, labeled acc. to customer requirements, 14 identical marker strips per card, max. 25-position labeling per strip, color: White               |
| 0804293 | SK 5,08/3,8:FORTL.ZAHLEN | Marker card, printed horizontally, self-adhesive, 12 identical decades marked 1-10, 11-20 etc. up to 91-(99)100, sufficient for 120 terminal blocks                                       |
| 0803883 | SK U/2,8 WH:UNBEDRUCKT   | Unprinted marker cards, DIN A4 format, pitch as desired, self-adhesive, with 50 stamped marker strips, 185 mm strip length, can be labeled with the CMS system or manually with the M-PEN |

#### Plug/Adapter

|         |         |                                                                                                   |
|---------|---------|---------------------------------------------------------------------------------------------------|
| 1734634 | CP-MSTB | Keying profile, is inserted into the slot on the plug or inverted header, red insulating material |
|---------|---------|---------------------------------------------------------------------------------------------------|

#### Tools

|         |             |                                                                                                                                                      |
|---------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1205053 | SZS 0,6X3,5 | Screwdriver, bladed, matches all screw terminal blocks up to 4.0 mm <sup>2</sup> connection cross section, blade: 0.6 x 3.5 mm, without VDE approval |
|---------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Additional products

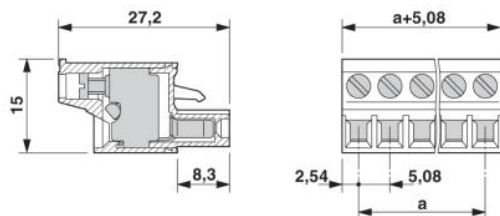
| Item           | Designation           | Description                                                                                                                                          |
|----------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b> |                       |                                                                                                                                                      |
| 1880368        | EMSTBA 2,5/ 8-G-5,08  | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Color: green, Assembly: Press-in                         |
| 1859577        | EMSTBVA 2,5/ 8-G-5,08 | Header, Nominal current: 12 A, Nom. voltage: 200 V, Pitch: 5.08 mm, Number of positions: 8, Color: green, Assembly: Press-in                         |
| 1873414        | FKIC 2,5/ 8-ST-5,08   | Plug component, Nominal current: 12 A, Nom. voltage: 320 V, Pitch: 5.08 mm, Number of positions: 8, Connection type: Spring-cage conn., Color: green |
| 1823901        | ICC 2,5/ 8-STZ-5,08   | Plug component, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Connection type: Crimp connection, Color: green  |

|         |                         |                                                                                                                                                                                                                                                        |
|---------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1762431 | MDSTB 2,5/ 8-G1-5,08    | Header, Nominal current: 10 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Color: green, Assembly: Soldering                                                                                                                          |
| 1842128 | MDSTBA 2,5/ 8-G-5,08    | Header, Nominal current: 10 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Color: green, Assembly: Soldering                                                                                                                          |
| 1762567 | MDSTBV 2,5/ 8-G1-5,08   | Header, Nominal current: 10 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Color: green, Assembly: Soldering                                                                                                                          |
| 1845390 | MDSTBVA 2,5/ 8-G-5,08   | Header, Nominal current: 10 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Color: green, Assembly: Soldering                                                                                                                          |
| 1770779 | MSTB 2,5/ 8-G-5,08-LA   | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Assembly: Soldering                                                                                                                                        |
| 1757307 | MSTBA 2,5/ 8-G-5,08     | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Color: green, Assembly: Soldering                                                                                                                          |
| 1771008 | MSTBA 2,5/ 8-G-5,08-LA  | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Assembly: Soldering                                                                                                                                        |
| 1788787 | MSTBVK 2,5/ 8-G-5,08    | Plug component, Nominal current: 12 A, Nom. voltage: 320 V, Pitch: 5.08 mm, Number of positions: 8, Connection type: Screw connection, Assembly: DIN rail, Color: green                                                                                |
| 1788596 | MVSTBU 2,5/ 8-GB-5,08   | Plug component, Nominal current: 12 A, Nom. voltage: 320 V, Pitch: 5.08 mm, Number of positions: 8, Connection type: Screw connection, Assembly: Direct mounting, Color: green                                                                         |
| 1769528 | SMSTB 2,5/ 8-G-5,08     | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Color: green, Assembly: Soldering                                                                                                                          |
| 1767436 | SMSTBA 2,5/ 8-G-5,08    | Header, Nominal current: 12 A, Nom. voltage: 250 V, Pitch: 5.08 mm, Number of positions: 8, Color: green, Assembly: Soldering                                                                                                                          |
| 3002034 | UK 3-MSTB-5,08          | Feed-through modular terminal block, Type of connection: Special and hybrid connection, Screw connection, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG 24 - 12, Width: 5.08 mm, Color: gray, Mounting type: NS 32, NS 35/15, NS 35/7,5 |
| 3002076 | UK 3-MVSTB-5,08         | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 32, NS 35/15, NS 35/7,5, Pitch: 5.08 mm, Width: 5.1, Color: gray          |
| 3002102 | UK 3-MVSTB-5,08-LA 24RD | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 32, NS 35/15, NS 35/7,5, Pitch: 5.08 mm, Width: 5.08, Color: gray         |
| 3002063 | UK 3-MVSTB-5,08/EK      | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 35/7,5, NS 35/15, NS 32, Pitch: 5.08 mm, Width: 5.1, Color: blue          |
| 3002131 | UK 3D-MSTBV-5,08        | Feed-through modular terminal block, Type of connection: Special and hybrid connection, Screw connection, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG 24 - 12, Width: 5.08 mm, Color: gray, Mounting type: NS 32, NS 35/15, NS 35/7,5 |

|         |                          |                                                                                                                                                                                                                                                                  |
|---------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3002144 | UK 3D-MSTBV-5,08-LA 24RD | Feed-through modular terminal block, Type of connection: Screw connection, Screw connection, Number of positions: 1, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG 24 - 12, Width: 5.1 mm, Color: gray, Mounting type: NS 32, NS 35/15, NS 35/7,5 |
| 3002173 | UK 3D-MSTBV-5,08/EK      | Feed-through modular terminal block, Type of connection: Screw connection, Screw connection, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG 24 - 12, Width: 5.1 mm, Color: blue, Mounting type: NS 32, NS 35/15, NS 35/7,5                         |
| 2770888 | UKK 3-MSTB-5,08          | End cover, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 35/7,5, NS 35/15, NS 32, Pitch: 5.08 mm, Width: 5.08, Color: gray                                             |
| 1876615 | UKK 3-MSTB-5,08-PE       | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 320 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 35/7,5, NS 35/15, NS 32, Pitch: 5.08 mm, Width: 5.08, Color: green-yellow           |
| 2770846 | UKK 3-MSTBVH-5,08        | Feed-through modular terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm <sup>2</sup> - 4 mm <sup>2</sup> , AWG: 24 - 12, Mounting type: NS 35/7,5, NS 35/15, NS 32, Pitch: 5.08 mm, Width: 5.08, Color: gray                   |
| 1788172 | UMSTBVK 2,5/ 8-G-5,08    | Plug component, Nominal current: 12 A, Nom. voltage: 320 V, Pitch: 5.08 mm, Number of positions: 8, Connection type: Screw connection, Assembly: DIN rail, Color: green                                                                                          |

## Diagrams/Drawings

### Dimensioned drawing



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