

Data sheet

Order No.: 1757174

Type: MSTB 2,5/18-ST-5,08

Plug component, Screw connection with tension sleeve



The figure shows a 10-position version of the product

1 Main features



| | | | |
|---------------------------|--------------------------------------|------------------------|---------------------|
| • No. of pos. | 18 | • Nominal current | 12 A |
| • Conductor cross section | 2.5 mm ² | • Nominal voltage | 320 V |
| • Color | green | • Connection direction | 0 ° |
| • Pitch | 5.08 mm | • Type of packaging | packed in cardboard |
| • Connection method | Screw connection with tension sleeve | | |

2 Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low temperature rise, thanks to maximum contact force
- ✓ Allows connection of two conductors



Make sure you always use the latest documentation.

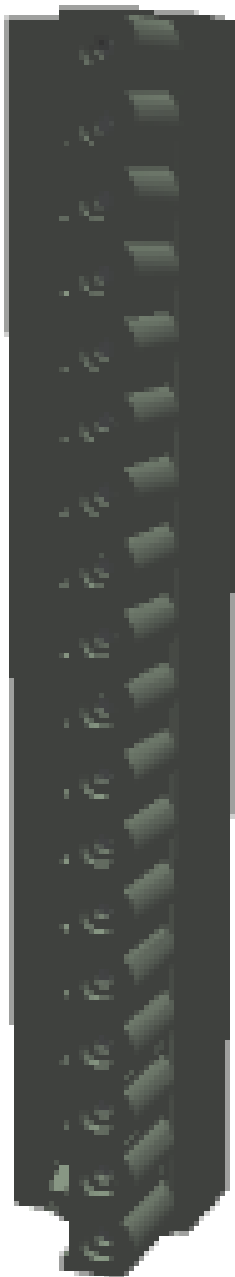
It can be downloaded at: phoenixcontact.net/product/1757174

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4 3D model in PDF can be activated (Acrobat Reader only)



1757174 MSTB 2,5/18-ST-5,08**5 item properties**

| | |
|-----------------------|--------------------------------------|
| Order No. | 1757174 |
| Type | MSTB 2,5/18-ST-5,08 |
| Type of contact | Female connector |
| Range of articles | MSTB 2,5/...ST |
| Pitch | 5.08 mm |
| Number of positions | 18 |
| Connection method | Screw connection with tension sleeve |
| Drive form screw head | Slotted |
| Screw thread | M3 |
| Tightening torque | 0.5 Nm ... 0.6 Nm |
| Locking | without |

5.1 Connection capacity

| | |
|--|---|
| Conductor cross section, solid | 0.2 mm ² to 2.5 mm ² |
| Conductor cross section, flexible | 0.2 mm ² to 2.5 mm ² |
| Conductor cross section AWG/kcmil | 24 to 12 |
| 2 conductors with same cross section, solid | 0.2 mm ² to 1 mm ² |
| 2 conductors with same cross section, stranded | 0.2 mm ² to 1.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² to 2.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve | 0.25 mm ² to 2.5 mm ² |
| 2 conductors with same cross section, stranded, with ferrule without plastic sleeve | 0.25 mm ² to 1 mm ² |
| 2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve | 0.5 mm ² to 1.5 mm ² |
| Cylindrical gauge a x b / diameter | 2.8 mm x 2.4 mm / 2.5 mm |
| Stripping length | 7 mm |

5.2 Material data

| | |
|---|---|
| Material of metal parts | |
| Note | WEEE/RoHS-compliant, whisker-free acc. to IEC 60068-2-82/JEDEC JESD 201 |
| Contact material | Cu alloy |
| Terminal point surface | Sn 5 µm ... 7 µm |
| Surface contact area | Sn 5 µm ... 7 µm |
| Surface characteristics | hot-dip tin-plated |
| Insulating material data | |
| Insulating material | PA |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |
| Color | green (6021) |
| Glow wire flammability index GWFI according to EN 60695-2-12 | 850 |
| Glow wire ignition temperature GWIT according to EN 60695-2-13 | 775 |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

6 Dimensions

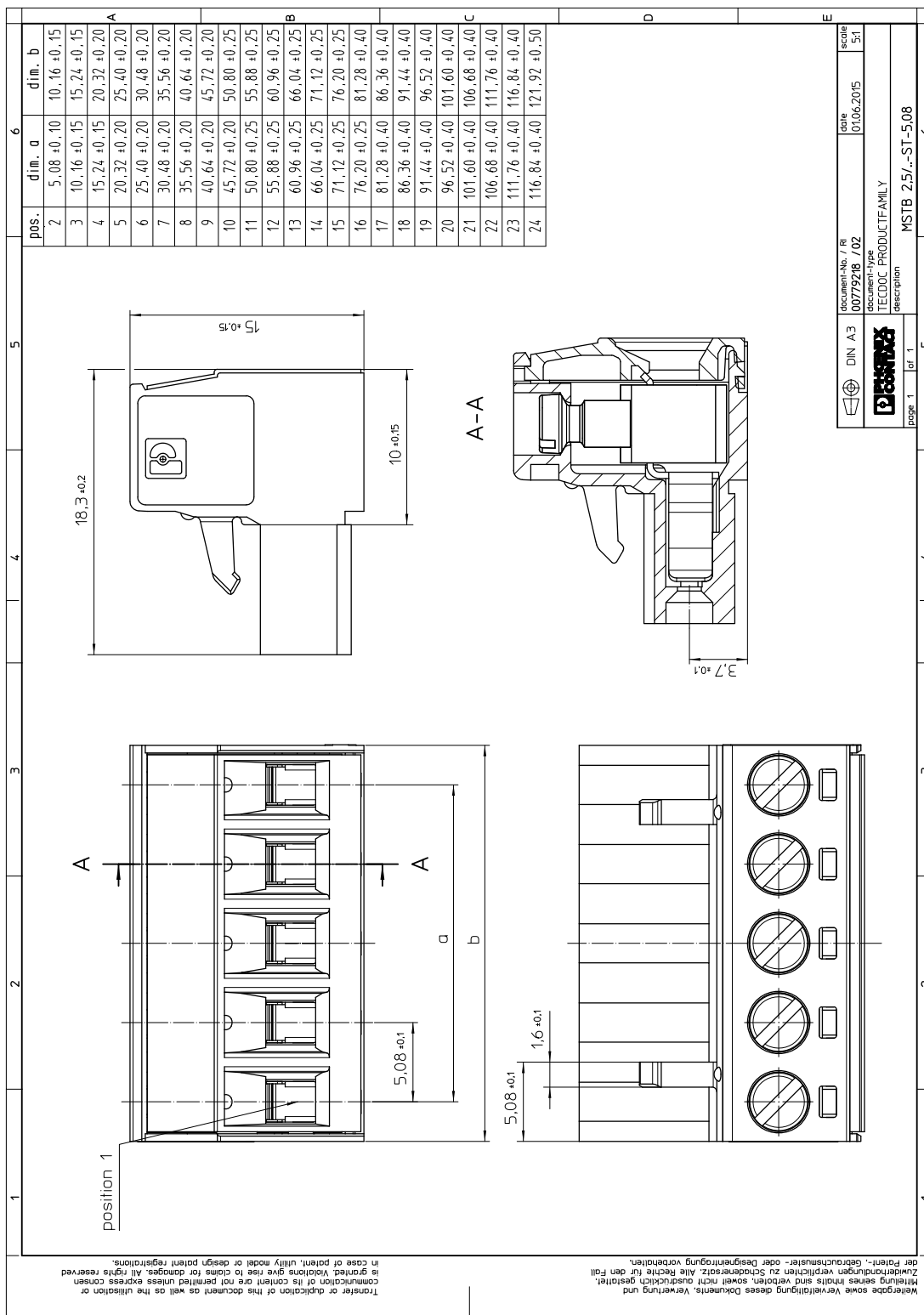
1757174 MSTB 2,5/18-ST-5,08

6.1 Dimensions for the product

| | |
|--------------|----------|
| Length | 18.3 mm |
| Width | 91.44 mm |
| Total height | 15 mm |
| Dimension a | 86.36 mm |

1757174 MSTB 2,5/18-ST-5,08

7 Series drawing



1757174 MSTB 2,5/18-ST-5,08**8 Packaging information**

| | |
|--------------------|---------------------|
| Type of packaging | packed in cardboard |
| Pieces per package | 50 |

9 Application**9.1 Temperature limit values**

| | |
|---|--|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C (dependent on the derating curve) |

1757174 MSTB 2,5/18-ST-5,08**10 Mechanical tests**

| Mechanical test group A | |
|-------------------------------------|------------------------|
| Specification | IEC 61984:2008-10 |
| Visual test | Test passed |
| Specification | IEC 60512-1-1:2002-02 |
| Dimensional test | Test passed |
| Specification | IEC 60512-1-2:2002-02 |
| Resistance of marking | Test passed |
| Specification | IEC 60068-2-70:1995-12 |
| Insertion and withdrawal force | Test passed |
| Specification | IEC 60512-13-2:2006-02 |
| No. of cycles | 25 |
| Insertion strength per pos. approx. | 8 N |
| Withdraw strength per pos. approx. | 6 N |
| Polarization and coding | Test passed |
| Specification | IEC 60512-13-5:2006-02 |
| Test force | 20 N |
| Contact retention in insert | Test passed |
| Specification | IEC 60512-15-1:2008-05 |
| Test force per pos. | 27 N |

10.1 Termination and connection method

| | |
|--|---------------------|
| Specification | IEC 60999-1:1999-11 |
| Check for damage to conductor or loosening | Test passed |

10.2 Pull-out test

| Termination and connection method: pull-out test | |
|--|---|
| Specification | IEC 60999-1:1999-11 |
| Result | Test passed |
| Conductor cross section/conductor type/tractive force actual value | 0.2 mm ² / solid / > 10 N |
| Conductor cross section/conductor type/tractive force actual value | 0.2 mm ² / stranded / > 10 N |
| Conductor cross section/conductor type/tractive force actual value | 2.5 mm ² / solid / > 50 N |
| Conductor cross section/conductor type/tractive force actual value | 2.5 mm ² / stranded / > 50 N |
| Conductor cross section/conductor type/tractive force actual value | AWG 12 / stranded / > 60 N |

1757174 MSTB 2,5/18-ST-5,08**11 Electrical tests****11.1 Electrical data**

| | |
|---|----------------------------|
| Rated current / conductor cross section | 12 A / 2.5 mm ² |
| Rated insulation voltage (III/2) | 320 V |
| Rated surge voltage (III/2) | 4 kV |
| Contact resistance | 1.3 mΩ |
| Degree of pollution | 2 |

11.2 Air and creepage distances

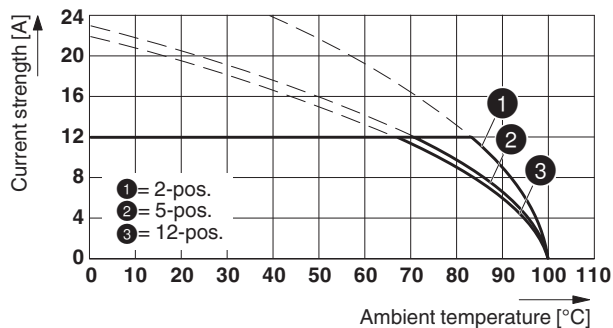
| | | | |
|---|---------------------|-------|--------|
| Component | Plug component | | |
| Specification | IEC 60664-1:2007-04 | | |
| Mains type | unearthed mains | | |
| Insulating material group | I | | |
| Comparative tracking index (IEC 60112:2003-01) | CTI 600 | | |
| Rated insulation voltage | 250 V | 320 V | 630 V |
| Rated surge voltage | 4 kV | 4 kV | 4 kV |
| Degree of pollution | 3 | 2 | 2 |
| Overvoltage category | III | III | II |
| Minimum clearance case A (inhomogeneous field) | 3 mm | 3 mm | 3 mm |
| Minimum value of the creepage path requirement in acc. with table | 3.2 mm | 3 mm | 3.2 mm |

1757174 MSTB 2,5/18-ST-5,08

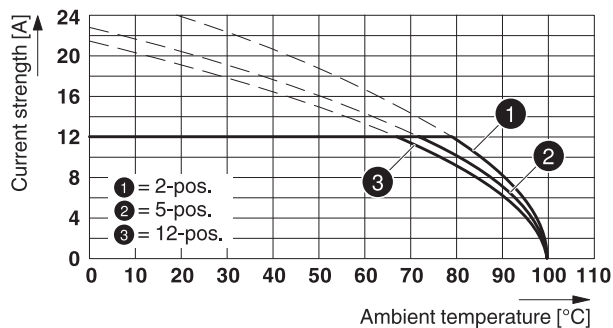
12 Current carrying capacity/derating curves

| | |
|-------------------------|---|
| Specification | IEC 61984:2008-10 |
| Note | Representation based on IEC 60512-5-2:2002-02 |
| Reduction factor | 0.8 |
| Number of positions | See diagram |
| Conductor cross section | 2.5 mm ² |

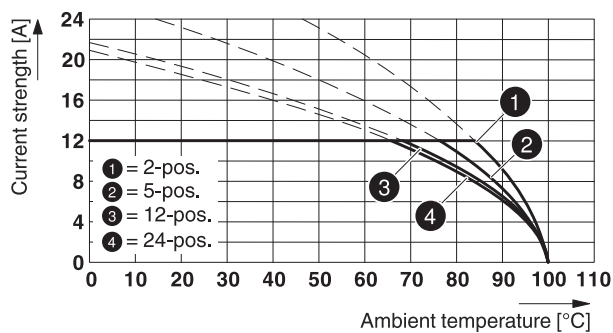
Type: MSTB 2,5/...-ST-5,08 with CC 2,5/...-G-5,08 P26THR



Type: MSTB 2,5/...-ST-5,08 with CCV 2,5/...-G-5,08 P26THR

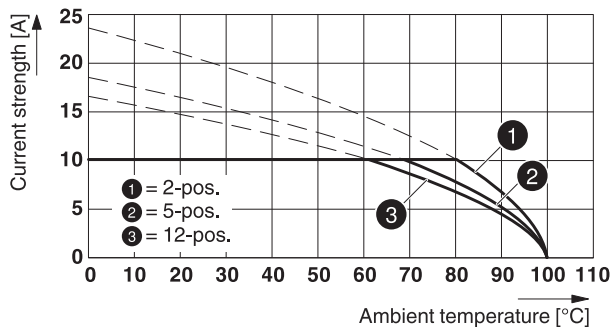


Type: MSTB 2,5/...-ST-5,08 with CCVA 2,5/...-G-5,08 P26THR

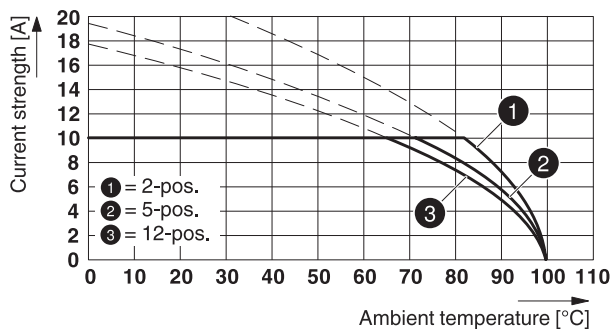


1757174 MSTB 2,5/18-ST-5,08

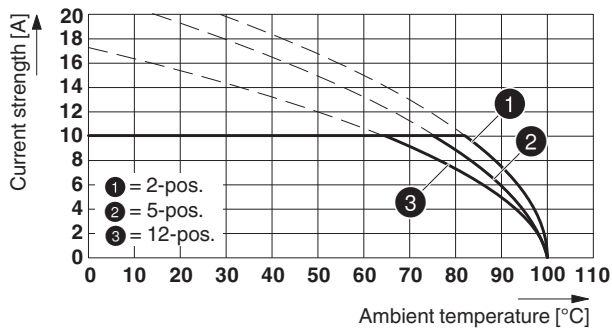
Type: MSTB 2,5/...-ST-5,08 with MDSTB 2,5/...-G-5,08



Type: MSTB 2,5/...-ST-5,08 with MDSTBA 2,5/...-G-5,08



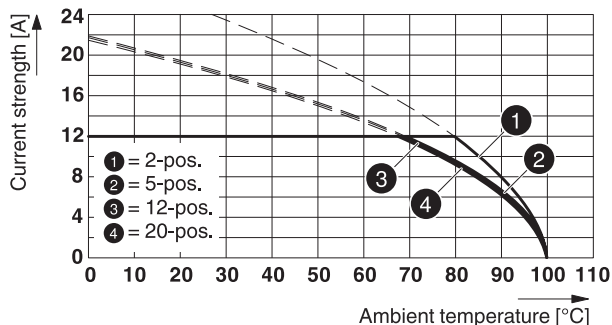
Type: MSTB 2,5/...-ST-5,08 with MDSTBW 2,5/...-G-5,08



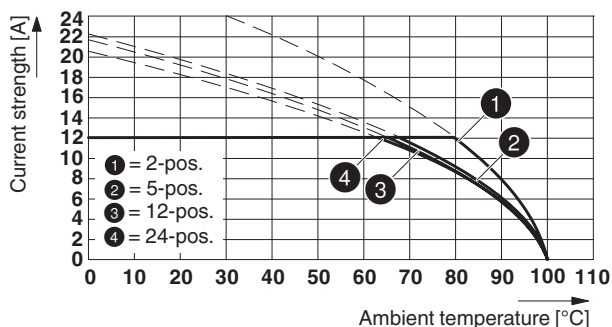
Type: MSTB 2,5/...-ST-5,08 with MDSTBV 2,5/...-G-5,08

1757174 MSTB 2,5/18-ST-5,08

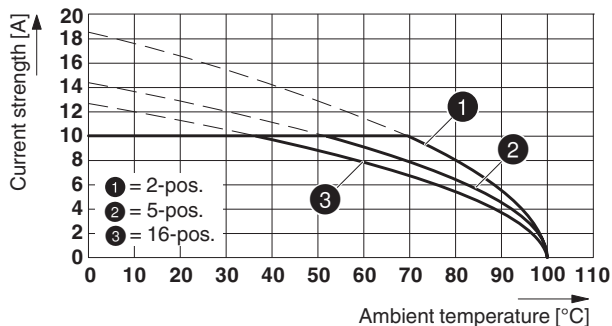
Type: MSTB 2,5/...-ST-5,08 with MVSTBU 2,5/...-GB-5,08



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



Type: MSTBP 2,5/...-ST-5,08 with MDSTBVA 2,5/...-G-5,08



Type: MSTB 2,5/...-ST(-5,08) with EMSTBVA 2,5/...-G(-5,08)

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Type: MSTB 2,5/...-ST-5,08 with MSTBW 2,5/...-G-5,08

Type: MSTB 2,5/...-ST-5,08 with MSTBVA 2,5/...-G-5,08

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Type: MSTB 2,5/...-ST-5,08 with MSTBV 2,5/...-G-5,08

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1757174 MSTB 2,5/18-ST-5,08**13 Environmental and durability tests****13.1 Vibration test**

| | |
|------------------------|------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Result | Test passed |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 - 60.1 Hz) |
| Acceleration | 5 g (60.1 - 150 Hz) |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis |


14 Classification for connectors

| | |
|-----------------------------------|--|
| Specification | IEC 61984:2008-10 |
| Main features | Connectors without switching capacity (COC) |
| Construction form | Fixed connectors |
| Strain relief elements | without strain relief |
| Connection method | Can be reconnected |
| Protection against electric shock | Not encapsulated - touch-proof when inserted |
| Protective conductor | without PE |
| Lock | no |
| Connection method | Screw terminal points |

15 Approvals

| CSA  | | | | |
|---|-------|-------|--|--|
| Use group | B | D | | |
| mm ² /AWG/kcmil | 28-12 | 28-12 | | |
| Voltage | 300 V | 300 V | | |
| Current | 10 A | 10 A | | |

| VDE Gutachten mit Fertigungsüberwachung  | | | | |
|---|---------|--|--|--|
| mm ² /AWG/kcmil | 0.2-2.5 | | | |
| Voltage | 250 V | | | |
| Current | 12 A | | | |

| IECEE CB Scheme  | | | | |
|---|---------|--|--|--|
| mm ² /AWG/kcmil | 0.2-2.5 | | | |
| Voltage | 250 V | | | |
| Current | 12 A | | | |

| cULus Recognized  | | | | |
|--|-------|-------|--|--|
| Use group | B | D | | |
| mm ² /AWG/kcmil | 30-12 | 30-12 | | |
| Voltage | 300 V | 150 V | | |
| Current | 15 A | 15 A | | |

2017-09-29

Product version 03

Document revision 0

1757174 MSTB 2,5/18-ST-5,08

EAC 

1757174 MSTB 2,5/18-ST-5,08**16 Commercial Data**

| | |
|--------------------|--|
| Order No. | 1757174 |
| Type | MSTB 2,5/18-ST-5,08 |
| Pieces per package | 50 |
| Net weight | 30.576 g |
| GTIN | 4017918029708 |
| | Information that applies locally, see link on page 1 |
| Country of origin | Information that applies locally, see link on page 1 |

17 corresponding headers



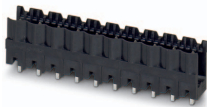

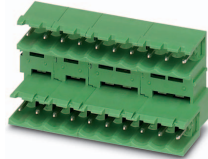
| Order No. | Type |
|-----------|------------------------|
| 1735727 | MSTBW 2,5/18-G-5,08 |
| 1755891 | MSTBVA 2,5/18-G-5,08 |
| 1757404 | MSTBA 2,5/18-G-5,08 |
| 1758173 | MSTBV 2,5/18-G-5,08 |
| 1759172 | MSTB 2,5/18-G-5,08 |
| 1762525 | MDSTB 2,5/18-G1-5,08 |
| 1762664 | MDSTBV 2,5/18-G1-5,08 |
| 1767533 | SMSTBA 2,5/18-G-5,08 |
| 1768105 | MSTBA 2,5/18-G-5,08-LA |
| 1769625 | SMSTB 2,5/18-G-5,08 |
| 1808625 | MSTBV 2,5/18-GEH-5,08 |
| 1880465 | EMSTBA 2,5/18-G-5,08 |
| 1915893 | EMSTBVA 2,5/18-G-5,08 |

18 Accessories

| Description | Order No. | Type |
|--|-----------|------------------------|
| 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 | 1205053 | SZS 0,6X3,5 |
| | 0804183 | SK 5/3,8:FORTL.ZAHLEN |
| | 1805592 | KGS-MSTB 2,5/18 |
| Coding profile, is inserted into the slot on the plug or inverted header, red insulating material | 1734634 | CP-MSTB |
| | 0803883 | SK U/2,8 WH:UNBEDRUCKT |
| | 0805108 | SK 5,08/2,8:SO |
| Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm | 1051993 | B-STIFT |

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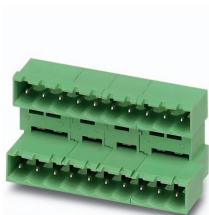
19 Combination tests

| |  |  |  |  |  |
|--|---|---|---|---|---|
| | MSTB 2,5/18-ST | CC 2,5/18-G | CCV 2,5/18-G | CCVA 2,5/18-G | MDSTB 2,5/18-G |
| Specification | | IEC 61984 | IEC 61984 | IEC 61984 | IEC 61984 |
| Mechanical tests (A) | | | | | |
| Insertion/withdrawal force per position | | approx. 8 N / 6 N | approx. 8 N / 6 N | approx. 8 N / 6 N | approx. 8 N / 6 N |
| Polarization when inserted Requirement >20 N | | Test passed | Test passed | Test passed | Test passed |
| Contact holder in insert Requirements >20 N | | Test passed | Test passed | Test passed | Test passed |
| Durability tests (B) | | | | | |
| Contact resistance R ₁ | | 1.3 mΩ | 1.2 mΩ | 1.3 mΩ | 1.6 mΩ |
| Insertion/withdrawal cycles | | 25 | 25 | 25 | 25 |
| Contact resistance R ₂ | | 1.4 mΩ | 1.2 mΩ | 1.4 mΩ | 1.6 mΩ |
| Rated impulse voltage at sea level Voltage waveform ≥ (1.2/50 μs) | | 4.8 kV | 4.8 kV | 4.8 kV | 4.8 kV |
| Power-frequency withstand voltage Voltage waveform ≥ (50/60 Hz) | | 2.21 kV | 2.21 kV | 2.21 kV | 2.21 kV |
| Insulation resistance Requirements > 5 MΩ | | > 2 TΩ | > 0.1 TΩ | > 7.0 TΩ | > 0.1 TΩ |
| Thermal tests (C) | | | | | |
| Tested number of positions | | 12 | 12 | 24 | 12 |
| Tested conductor cross section | | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| Test current | | 12 A | 12 A | 12 A DC | 10 A |
| Upper limiting temperature Requirements < 100°C | | Test passed | Test passed | Test passed | Test passed |
| Climatic tests (D) | | | | | |
| Test sequence 1: low temperature storage | | -40 °C/2 h | -40 °C/2 h | -40 °C/2 h | -40 °C/2 h |
| Test sequence 2: heat storage | | 100 °C/168 h | 100 °C/168 h | 100 °C/168 h | 100 °C/168 h |
| Test sequence 3: noxious gas storage (ISO 6988) | | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle |
| Rated impulse voltage at sea level Voltage waveform ≥ (1.2/50 μs) | | 4.8 kV | 4.8 kV | 4.8 kV | 4.8 kV |
| Power-frequency withstand voltage Voltage waveform ≥ (50/60 Hz) | | 2.21 kV | 2.21 kV | 2.21 kV | 2.21 kV |
| Environmental and endurance tests (E) | | | | | |
| Specification | | IEC 61984:2008-10 | IEC 61984:2008-10 | IEC 61984:2008-10 | IEC 61984:2008-10 |
| Degree of protection | | Finger safety with IP20 test finger | Finger safety with IP20 test finger | Finger safety with IP20 test finger | Finger safety with IP20 test finger |

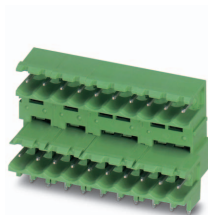
1757174 MSTB 2,5/18-ST-5,08



MSTB 2,5/18-ST



MDSTBA 2,5/18-G



MDSTBW 2,5/18-G



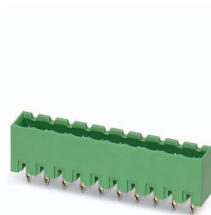
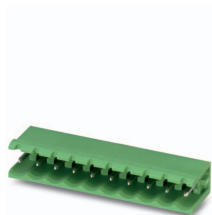
MDSTBV 2,5/18-G



DFK-MSTBA 2,5/18-G

| Specification | IEC 61984 | IEC 61984 | IEC 61984 | IEC 61984 |
|--|---|---|---|-----------|
| Mechanical tests (A) | | | | |
| Insertion/withdrawal force per position | approx. 8 N / 6 N | approx. 8 N / 6 N | approx. 8 N / 6 N | |
| Polarization when inserted Requirement >20 N | Test passed | Test passed | Test passed | |
| Contact holder in insert Requirements >20 N | Test passed | Test passed | Test passed | |
| Durability tests (B) | | | | |
| Contact resistance R ₁ | 1.6 mΩ | 1.6 mΩ | 2.6 mΩ | |
| Insertion/withdrawal cycles | 25 | 25 | 25 | |
| Contact resistance R ₂ | 1.6 mΩ | 1.7 mΩ | 2.6 mΩ | |
| Rated impulse voltage at sea level Voltage waveform ≥ (1.2/50 μs) | 4.8 kV | 4.8 kV | 4.8 kV | |
| Power-frequency withstand voltage Voltage waveform ≥ (50/60 Hz) | 2.21 kV | 2.21 kV | 2.21 kV | |
| Insulation resistance Requirements > 5 MΩ | > 50 GΩ | > 0.3 TΩ | > 50 GΩ | |
| Thermal tests (C) | | | | |
| Tested number of positions | 12 | 12 | 12 | |
| Tested conductor cross section | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | |
| Test current | 10 A | 10 A | 10 A | |
| Upper limiting temperature Requirements < 100°C | Test passed | Test passed | Test passed | |
| Climatic tests (D) | | | | |
| Test sequence 1: low temperature storage | -40 °C/2 h | -40 °C/2 h | -40 °C/2 h | |
| Test sequence 2: heat storage | 100 °C/168 h | 100 °C/168 h | 100 °C/168 h | |
| Test sequence 3: noxious gas storage (ISO 6988) | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle | |
| Rated impulse voltage at sea level Voltage waveform ≥ (1.2/50 μs) | 4.8 kV | 4.8 kV | 4.8 kV | |
| Power-frequency withstand voltage Voltage waveform ≥ (50/60 Hz) | 2.21 kV | 2.21 kV | 2.21 kV | |
| Environmental and endurance tests (E) | | | | |
| Specification | IEC 61984:2008-10 | IEC 61984:2008-10 | IEC 61984:2008-10 | |
| Degree of protection | Finger safety with IP20 test finger | Finger safety with IP20 test finger | Finger safety with IP20 test finger | |

1757174 MSTB 2,5/18-ST-5,08



MSTB 2,5/...-ST

MVSTBU 2,5/...-GB

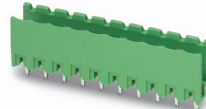
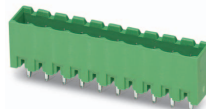
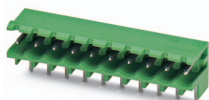
MSTB 2,5/...-G

MDSTBVA 2,5/...-G

EMSTBVA 2,5/...-G

| Specification | IEC 61984 | IEC 61984 | IEC 61984 | DIN VDE 0627 (in parts) |
|--|---|---|---|---|
| Mechanical tests (A) | | | | |
| Insertion/withdrawal force per position | approx. 8 N / 6 N | approx. 8 N / 6 N | approx. 8 N / 6 N | approx. 5 N / 4 N |
| Polarization when inserted Requirement >20 N | Test passed | Test passed | Test passed | |
| Contact holder in insert Requirements >20 N | Test passed | Test passed | Test passed | |
| Durability tests (B) | | | | |
| Contact resistance R ₁ | 1.9 mΩ | 1.4 mΩ | 2.5 mΩ | 1.1 mΩ |
| Insertion/withdrawal cycles | 25 | 25 | 25 | 100 |
| Contact resistance R ₂ | 2.2 mΩ | 1.4 mΩ | 2.5 mΩ | 1.5 mΩ |
| Rated impulse voltage at sea level Voltage waveform ≥ (1.2/50 μs) | 4.8 kV | 4.8 kV | 4.8 kV | 4.8 kV |
| Power-frequency withstand voltage Voltage waveform ≥ (50/60 Hz) | 2.21 kV | 2.21 kV | 2.21 kV | 2.21 kV |
| Insulation resistance Requirements > 5 MΩ | > 0.7 TΩ | > 0.3 TΩ | > 0.2 TΩ | > 8 TΩ |
| Thermal tests (C) | | | | |
| Tested number of positions | 20 | 24 | 16 | 6 |
| Tested conductor cross section | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| Test current | 12 A | 12 A | 10 A | 12 A |
| Upper limiting temperature Requirements < 100°C | Test passed | Test passed | Test passed | |
| Climatic tests (D) | | | | |
| Test sequence 1: low temperature storage | -40 °C/2 h | -40 °C/2 h | -40 °C/2 h | -40 °C/2 h |
| Test sequence 2: heat storage | 100 °C/168 h | 100 °C/168 h | 100 °C/168 h | 100 °C/168 h |
| Test sequence 3: noxious gas storage (ISO 6988) | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle | 0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle |
| Rated impulse voltage at sea level Voltage waveform ≥ (1.2/50 μs) | 4.8 kV | 4.8 kV | 4.8 kV | 4.8 kV |
| Power-frequency withstand voltage Voltage waveform ≥ (50/60 Hz) | 2.21 kV | 2.21 kV | 2.21 kV | 2.21 kV |
| Environmental and endurance tests (E) | | | | |
| Specification | IEC 61984:2008-10 | IEC 61984:2008-10 | IEC 61984:2008-10 | IEC 61984:2008-10 |
| Degree of protection | Finger safety with IP20 test finger | Finger safety with IP20 test finger | Finger safety with IP20 test finger | Finger safety with IP20 test finger |

1757174 MSTB 2,5/18-ST-5,08



MSTB 2,5/18-ST

MSTBW 2,5/18-G

MSTBVA 2,5/18-G

MSTBV 2,5/18-G

Specification

IEC 61984

IEC 61984

IEC 61984

Mechanical tests (A)

Insertion/withdrawal force per position

approx. 8 N / 6 N

approx. 8 N / 6 N

approx. 8 N / 6 N

Polarization when inserted
Requirement >20 N

Test passed

Test passed

Test passed

Contact holder in insert
Requirements >20 N

Test passed

Test passed

Test passed

Durability tests (B)

Contact resistance R₁

1.3 mΩ

2.4 mΩ

2.4 mΩ

Insertion/withdrawal cycles

25

25

25

Contact resistance R₂

1.3 mΩ

2.5 mΩ

2.4 mΩ

Rated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)

4.8 kV

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)

2.21 kV

2.21 kV

2.21 kV

Insulation resistance
Requirements > 5 MΩ

> 0.2 TΩ

> 0.2 TΩ

> 0.2 TΩ

Thermal tests (C)

Tested number of positions

20

24

20

Tested conductor cross section

2.5 mm²

2.5 mm²

2.5 mm²

Test current

12 A

Upper limiting temperature
Requirements < 100°C

Test passed

Test passed

Test passed

Climatic tests (D)

Test sequence 1: low temperature storage

-40 °C/2 h

-40 °C/2 h

-40 °C/2 h

Test sequence 2: heat storage

100 °C/168 h

100 °C/168 h

100 °C/168 h

Test sequence 3: noxious gas storage
(ISO 6988)

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

Rated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)

4.8 kV

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)

2.21 kV

2.21 kV

2.21 kV

Environmental and endurance tests (E)

Specification

IEC 61984:2008-10

IEC 61984:2008-10

IEC 61984:2008-10

Degree of protection

Finger safety with IP20
test finger

Finger safety with IP20
test finger

Finger safety with IP20
test finger



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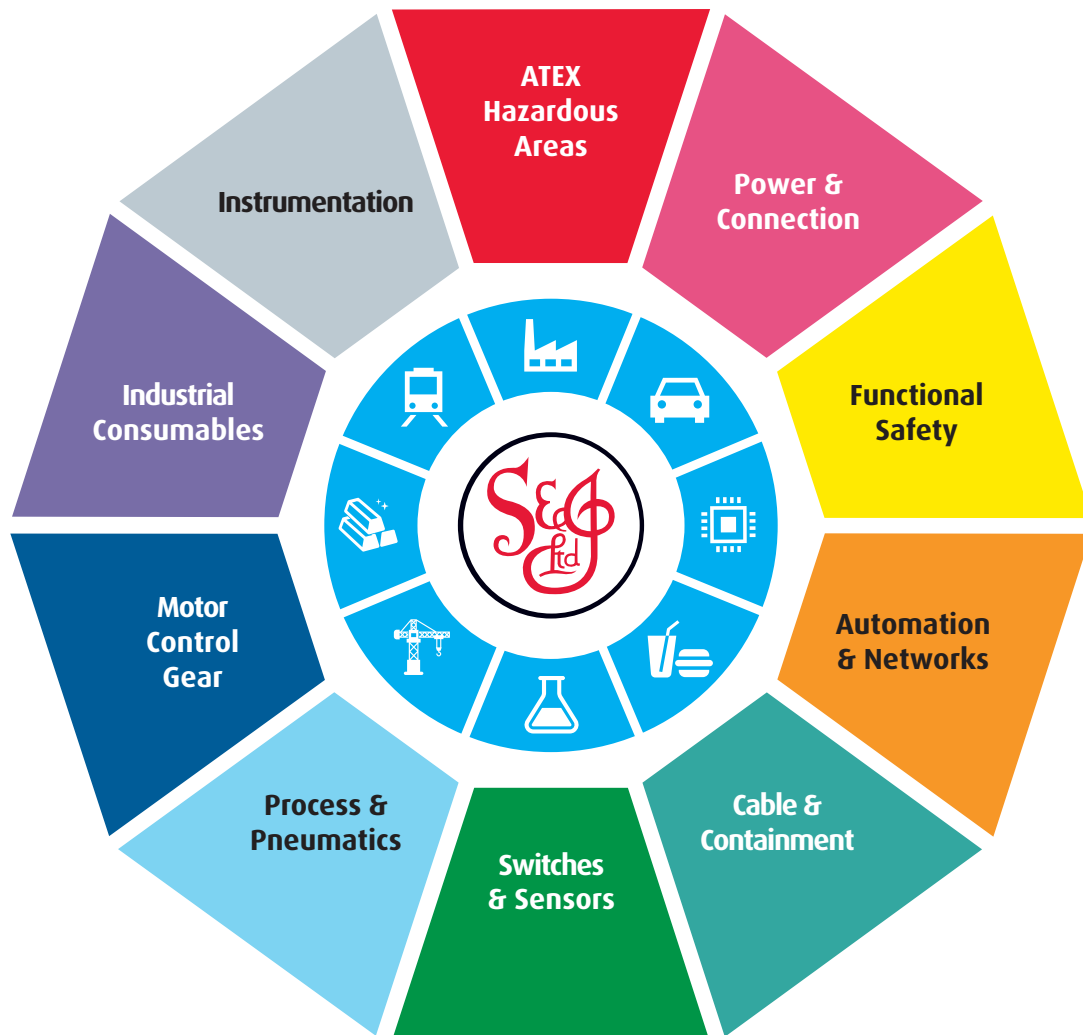
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