

# Data sheet

2017-03-24  
Product version 04  
Document revision 0

Order No.: 1757019

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

Plug component, Screw connection with tension sleeve



The figure shows a 10-position version of the product

## 1 Main features



- |                           |                                      |                        |                     |
|---------------------------|--------------------------------------|------------------------|---------------------|
| • Number of positions     | 2                                    | • Nominal current      | 12 A                |
| • Conductor cross section | 2.5 mm <sup>2</sup>                  | • 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



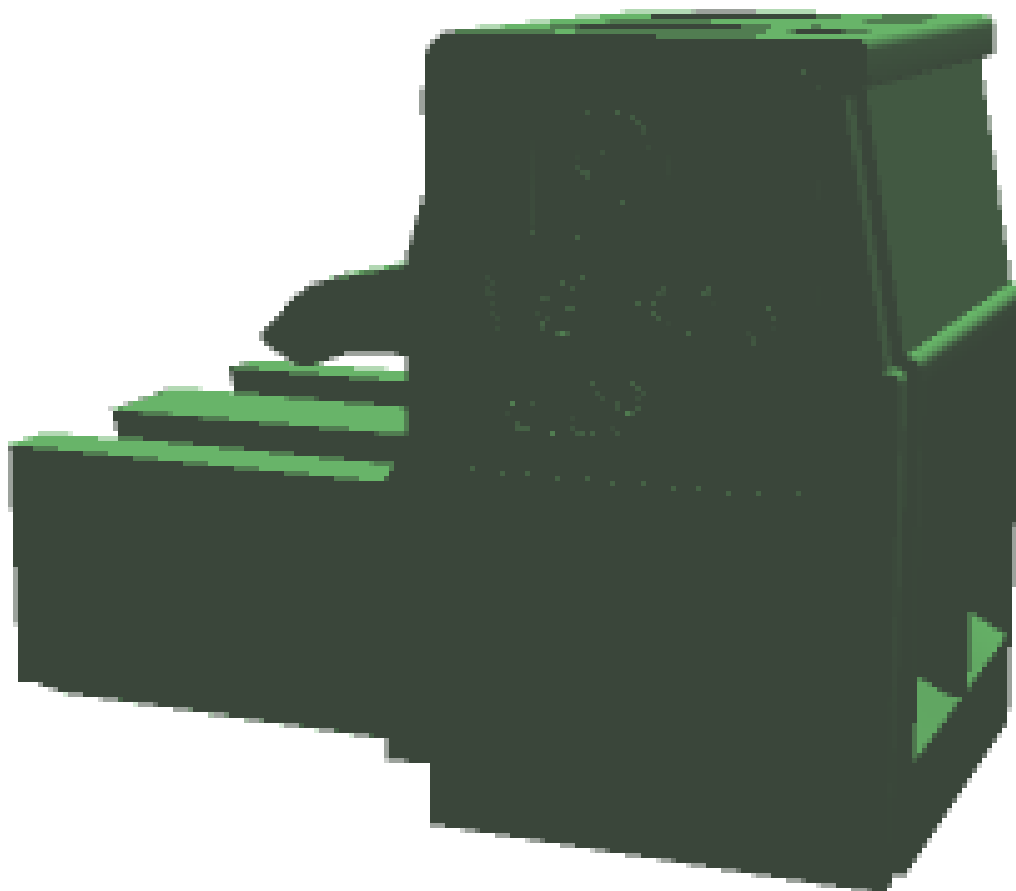
Make sure you always use the latest documentation.  
It can be downloaded at: [phoenixcontact.net/product/1757019](https://phoenixcontact.net/product/1757019)

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1757019 MSTB 2,5/ 2-ST-5,08

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



**1757019 MSTB 2,5/ 2-ST-5,08****5 Item properties**

Order No.	1757019
Type	MSTB 2,5/ 2-ST-5,08
Type of contact	Female connector
Range of articles	MSTB 2,5/...ST
Pitch	5.08 mm
Number of positions	2
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 <sup>2</sup> to 2.5 mm <sup>2</sup>
Conductor cross section, flexible	0.2 mm <sup>2</sup> to 2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil	24 to 12
2 conductors with same cross section, solid	0.2 mm <sup>2</sup> to 1 mm <sup>2</sup>
2 conductors with same cross section, stranded	0.2 mm <sup>2</sup> to 1.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> to 2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve	0.25 mm <sup>2</sup> to 2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> to 1 mm <sup>2</sup>
2 conductors with same cross section, stranded, with TWIN ferrules with plastic sleeve	0.5 mm <sup>2</sup> to 1.5 mm <sup>2</sup>
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	Housing	
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**

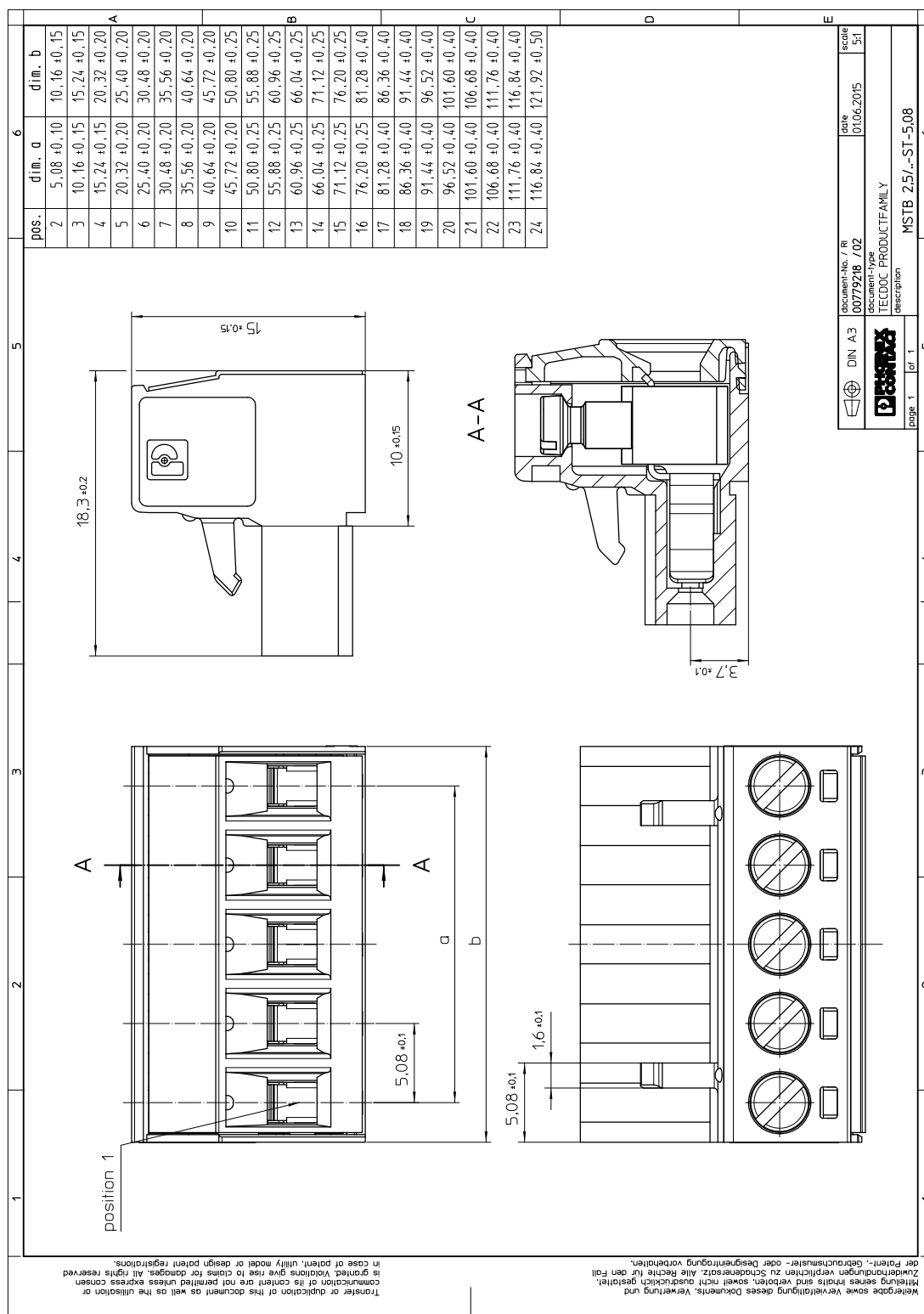
**1757019 MSTB 2,5/ 2-ST-5,08**

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**6.1 Dimensions for the product**

Length	18.2 mm
Width	10.16 mm
Total height	15 mm
Dimension a	5.08 mm

## 7 Series drawing



**1757019 MSTB 2,5/ 2-ST-5,08****8 Packaging information**

Type of packaging	packed in cardboard
Pieces per package	100

**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)

**1757019 MSTB 2,5/ 2-ST-5,08****10 Mechanical tests**

<b>Mechanical test group A</b>	
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**

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



**1757019 MSTB 2,5/ 2-ST-5,08****11 Electrical tests****11.1 Electrical data**

Rated current / conductor cross section	12 A / 2.5 mm <sup>2</sup>
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 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

## 1757019 MSTB 2,5/ 2-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

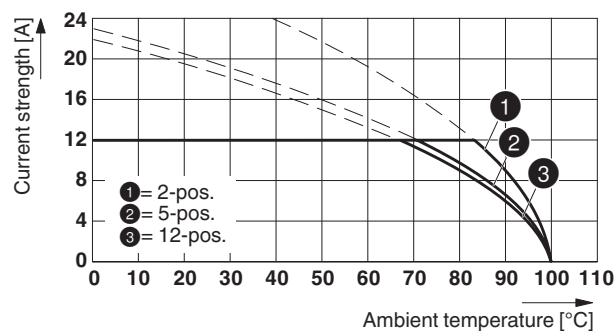
Number of positions

See diagram

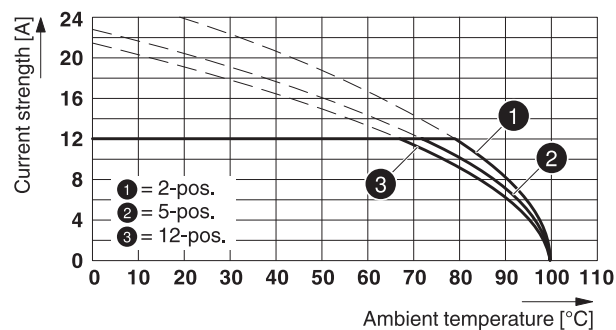
Conductor cross section

2.5 mm<sup>2</sup>

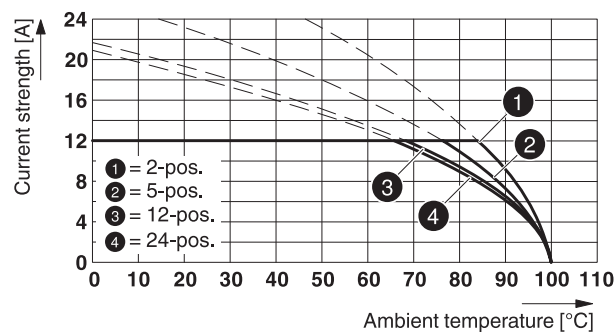
## Type: MSTB 2,5/...-ST-5,08 with CC 2,5/...-G-5,08 P26THR

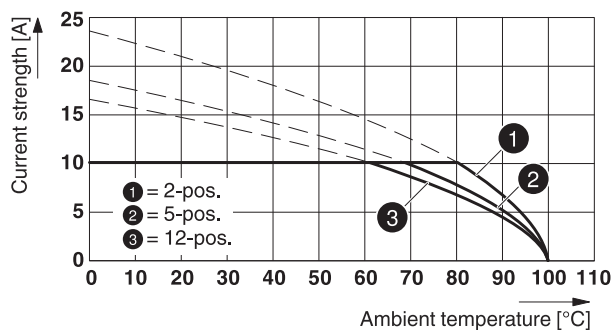
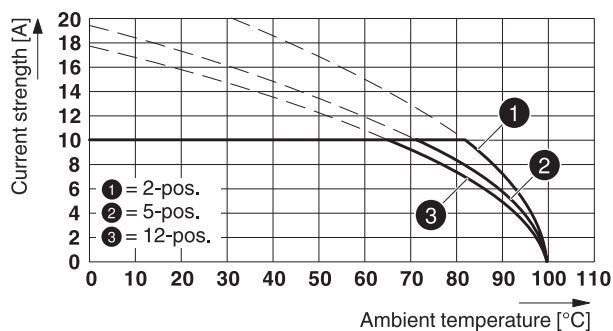
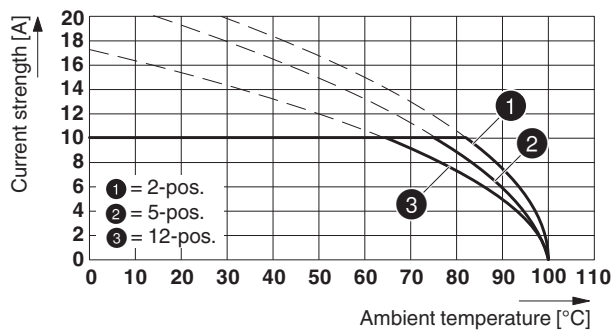


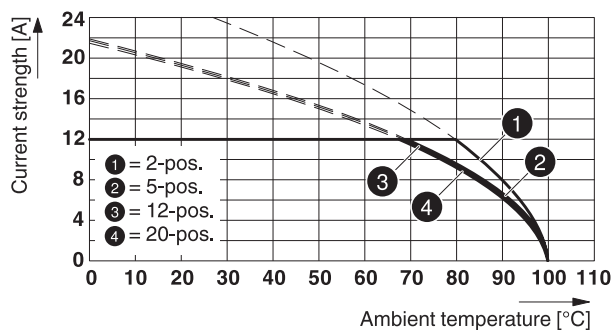
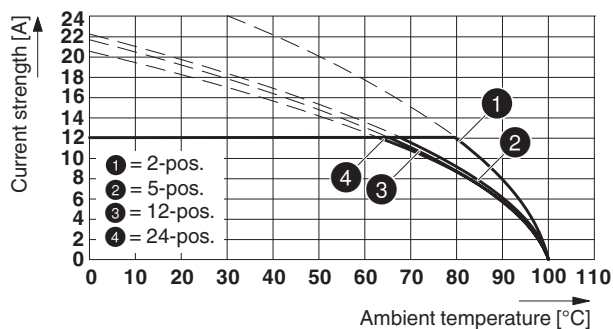
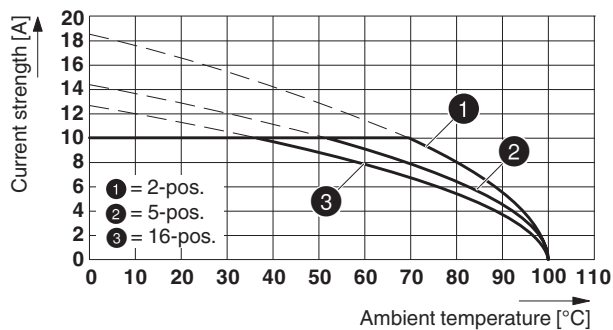
## Type: MSTB 2,5/...-ST-5,08 with CCV 2,5/...-G-5,08 P26THR



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



**1757019 MSTB 2,5/ 2-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**

**1757019 MSTB 2,5/ 2-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**


**1757019 MSTB 2,5/ 2-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 <sup>2</sup> /AWG/kcmil	28-12	28-12		
Voltage	300 V	300 V		
Current	15 A	10 A		

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

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

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

## 1757019 MSTB 2,5/ 2-ST-5,08

EAC 

**1757019 MSTB 2,5/ 2-ST-5,08****16 Commercial Data**

Order No.	1757019
Type	MSTB 2,5/ 2-ST-5,08
Pieces per package	100
Net weight	3.479 g
GTIN	4017918029548
Customs tariff number	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
1735882	MSTBW 2,5/ 2-G-5,08
1755736	MSTBVA 2,5/ 2-G-5,08
1757242	MSTBA 2,5/ 2-G-5,08
1758018	MSTBV 2,5/ 2-G-5,08
1759017	MSTB 2,5/ 2-G-5,08
1762062	MDSTB 2,5/ 2-G-5,08
1763074	MDSTBV 2,5/ 2-G-5,08
1767371	SMSTBA 2,5/ 2-G-5,08
1769463	SMSTB 2,5/ 2-G-5,08
1770944	MSTBA 2,5/ 2-G-5,08-LA
1802430	MDSTBW 2,5/ 2-G-5,08
1842063	MDSTBA 2,5/ 2-G-5,08
1845332	MDSTBVA 2,5/ 2-G-5,08
1859519	EMSTBVA 2,5/ 2-G-5,08
1877601	MDSTBA 2,5/ 2-GL-5,08
1877614	MDSTBA 2,5/ 2-GR-5,08
1877627	MDSTBVA 2,5/ 2-GL-5,08
1877630	MDSTBVA 2,5/ 2-GR-5,08
1880300	EMSTBA 2,5/ 2-G-5,08
1898839	DFK-MSTBA 2,5/ 2-G-5,08
1899139	DFK-MSTBVA 2,5/ 2-G-5,08
1902741	MSTBA 2,5/ 2-G-5,08 THT
1902819	MSTBVA 2,5/ 2-G-5,08 THT
1937237	MSTBA 2,5/ 2-G-5,08 THT-R32
1940415	MSTBVA 2,5/ 2-G-5,08 THT-R56
1954388	CC 2,5/ 2-G-5,08 P26THR
1954582	CC 2,5/ 2-G-5,08 P26THRR32
1954919	CCA 2,5/ 2-G-5,08 P26THR
1955031	CCA 2,5/ 2-G-5,08 P26THRR32
1955387	CCV 2,5/ 2-G-5,08 P26THR
1955523	CCV 2,5/ 2-G-5,08 P26THRR32
1955853	CCVA 2,5/ 2-G-5,08 P26THR
1955963	CCVA 2,5/ 2-G-5,08 P26THRR32

**18 Accessories**

**1757019 MSTB 2,5/ 2-ST-5,08**

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
	0804293	SK 5,08/3,8:FORTL.ZAHLEN
	1803934	KGG-MSTB 2,5/ 2
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



## 1757019 MSTB 2,5/ 2-ST-5,08

## 19 Combination tests

**MSTB 2,5/..-ST**

Specification

**Mechanical tests (A)**

Insertion/withdrawal force per position

Polarization when inserted  
Requirement > 20 NContact holder in insert  
Requirements > 20 N**Endurance tests (B)**Contact resistance  $R_1$ 

Insertion/withdrawal cycles

Contact resistance  $R_2$ Rated impulse voltage at sea level  
Voltage waveform  $\geq (1.2/50 \mu s)$ Power-frequency withstand voltage  
Voltage waveform  $\geq (50/60 \text{ Hz})$ Insulation resistance  
Requirements > 5 M $\Omega$ **Thermal tests (C)**

Tested number of positions

Tested conductor cross section

Test current

Upper limiting temperature  
Requirements < 100°C**Climatic tests (D)**

Test sequence 1: low temperature storage

Test sequence 2: heat storage

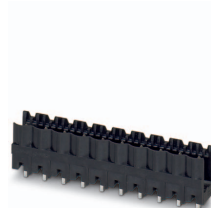
Test sequence 3: noxious gas storage  
(ISO 6988)Rated impulse voltage at sea level  
Voltage waveform  $\geq (1.2/50 \mu s)$ Power-frequency withstand voltage  
Voltage waveform  $\geq (50/60 \text{ Hz})$ **Environmental and endurance tests (E)**

Specification

Degree of protection

**CC 2,5/..-G**

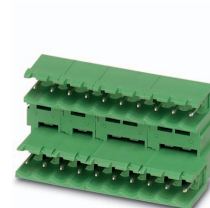
IEC 61984

**CCV 2,5/..-G**

IEC 61984

**CCVA 2,5/..-G**

IEC 61984

**MDSTB 2,5/..-G**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1.3 m $\Omega$ 

25

1.4 m $\Omega$ 

4.8 kV

2.21 kV

> 2 T $\Omega$ 

12

2.5 mm<sup>2</sup>

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm<sup>3</sup> SO<sub>2</sub> on 300 dm<sup>3</sup>/  
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20  
test finger

approx. 8 N / 6 N

Test passed

Test passed

1.2 m $\Omega$ 

25

1.2 m $\Omega$ 

4.8 kV

2.21 kV

> 0.1 T $\Omega$ 

12

2.5 mm<sup>2</sup>

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm<sup>3</sup> SO<sub>2</sub> on 300 dm<sup>3</sup>/  
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20  
test finger

approx. 8 N / 6 N

Test passed

Test passed

1.3 m $\Omega$ 

25

1.4 m $\Omega$ 

4.8 kV

2.21 kV

> 7.0 T $\Omega$ 

24

2.5 mm<sup>2</sup>

12 A DC

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm<sup>3</sup> SO<sub>2</sub> on 300 dm<sup>3</sup>/  
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20  
test finger

approx. 8 N / 6 N

Test passed

Test passed

1.6 m $\Omega$ 

25

1.6 m $\Omega$ 

4.8 kV

2.21 kV

> 0.1 T $\Omega$ 

12

2.5 mm<sup>2</sup>

10 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm<sup>3</sup> SO<sub>2</sub> on 300 dm<sup>3</sup>/  
40 °C/1 cycle

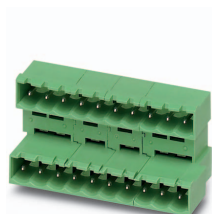
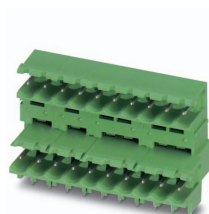
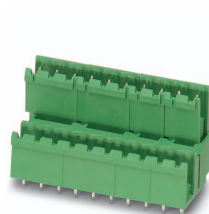
4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20  
test finger

## 1757019 MSTB 2,5/ 2-ST-5,08

**MSTB 2,5/..-ST****MDSTBA 2,5/..-G****MDSTBW 2,5/..-G****MDSTBV 2,5/..-G****DFK-MSTBA 2,5/..-G**

Specification	IEC 61984	IEC 61984	IEC 61984	IEC 61984
<b>Mechanical tests (A)</b>				
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	
<b>Endurance tests (B)</b>				
Contact resistance $R_1$	1.6 m $\Omega$	1.6 m $\Omega$	2.6 m $\Omega$	
Insertion/withdrawal cycles	25	25	25	
Contact resistance $R_2$	1.6 m $\Omega$	1.7 m $\Omega$	2.6 m $\Omega$	
Rated impulse voltage at sea level Voltage waveform $\geq (1.2/50 \mu s)$	4.8 kV	4.8 kV	4.8 kV	
Power-frequency withstand voltage Voltage waveform $\geq (50/60 \text{ Hz})$	2.21 kV	2.21 kV	2.21 kV	
Insulation resistance Requirements > 5 M $\Omega$	> 50 G $\Omega$	> 0.3 T $\Omega$	> 50 G $\Omega$	
<b>Thermal tests (C)</b>				
Tested number of positions	12	12	12	
Tested conductor cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	
Test current	10 A	10 A	10 A	
Upper limiting temperature Requirements < 100°C	Test passed	Test passed	Test passed	
<b>Climatic tests (D)</b>				
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 <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> / 40 °C/1 cycle	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> / 40 °C/1 cycle	0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> / 40 °C/1 cycle	
Rated impulse voltage at sea level Voltage waveform $\geq (1.2/50 \mu s)$	4.8 kV	4.8 kV	4.8 kV	
Power-frequency withstand voltage Voltage waveform $\geq (50/60 \text{ Hz})$	2.21 kV	2.21 kV	2.21 kV	
<b>Environmental and endurance tests (E)</b>				
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	

## 1757019 MSTB 2,5/ 2-ST-5,08

**MSTB 2,5/..-ST**

Specification

**Mechanical tests (A)**

Insertion/withdrawal force per position

Polarization when inserted  
Requirement > 20 NContact holder in insert  
Requirements > 20 N**Endurance tests (B)**Contact resistance  $R_1$ 

Insertion/withdrawal cycles

Contact resistance  $R_2$ Rated impulse voltage at sea level  
Voltage waveform  $\geq (1.2/50 \mu s)$ Power-frequency withstand voltage  
Voltage waveform  $\geq (50/60 \text{ Hz})$ Insulation resistance  
Requirements > 5 M $\Omega$ **Thermal tests (C)**

Tested number of positions

Tested conductor cross section

Test current

Upper limiting temperature  
Requirements < 100°C**Climatic tests (D)**

Test sequence 1: low temperature storage

Test sequence 2: heat storage

Test sequence 3: noxious gas storage  
(ISO 6988)Rated impulse voltage at sea level  
Voltage waveform  $\geq (1.2/50 \mu s)$ Power-frequency withstand voltage  
Voltage waveform  $\geq (50/60 \text{ Hz})$ **Environmental and endurance tests (E)**

Specification

Degree of protection

**MVSTBU 2,5/..-GB**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1.9 m $\Omega$ 

25

2.2 m $\Omega$ 

4.8 kV

2.21 kV

> 0.7 T $\Omega$ 

20

2.5 mm<sup>2</sup>

12 A

Test passed

-40 °C/2 h

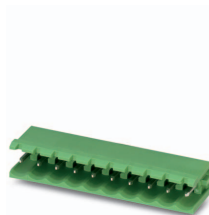
100 °C/168 h

0.2 dm<sup>3</sup> SO<sub>2</sub> on 300 dm<sup>3</sup>/  
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20  
test finger**MSTB 2,5/..-G**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1.4 m $\Omega$ 

25

1.4 m $\Omega$ 

4.8 kV

2.21 kV

> 0.3 T $\Omega$ 

24

2.5 mm<sup>2</sup>

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm<sup>3</sup> SO<sub>2</sub> on 300 dm<sup>3</sup>/  
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20  
test finger**MDSTBVA 2,5/..-G**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

2.5 m $\Omega$ 

25

2.5 m $\Omega$ 

4.8 kV

2.21 kV

> 0.2 T $\Omega$ 

16

2.5 mm<sup>2</sup>

10 A

Test passed

-40 °C/2 h

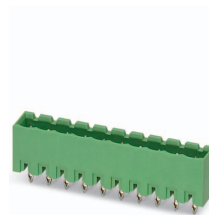
100 °C/168 h

0.2 dm<sup>3</sup> SO<sub>2</sub> on 300 dm<sup>3</sup>/  
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20  
test finger**EMSTBVA 2,5/..-G**

DIN VDE 0627 (in parts)

approx. 5 N / 4 N

1.1 m $\Omega$ 

100

1.5 m $\Omega$ 

4.8 kV

2.21 kV

> 8 T $\Omega$ 

6

2.5 mm<sup>2</sup>

12 A

-40 °C/2 h

100 °C/168 h

0.2 dm<sup>3</sup> SO<sub>2</sub> on 300 dm<sup>3</sup>/  
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20  
test finger

**1757019 MSTB 2,5/ 2-ST-5,08****MSTB 2,5/..-ST**

Specification

**Mechanical tests (A)**

Insertion/withdrawal force per position

Polarization when inserted  
Requirement > 20 NContact holder in insert  
Requirements > 20 N**Endurance tests (B)**Contact resistance  $R_1$ 

Insertion/withdrawal cycles

Contact resistance  $R_2$ Rated impulse voltage at sea level  
Voltage waveform  $\geq (1.2/50 \mu s)$ Power-frequency withstand voltage  
Voltage waveform  $\geq (50/60 \text{ Hz})$ Insulation resistance  
Requirements > 5 M $\Omega$ **Thermal tests (C)**

Tested number of positions

Tested conductor cross section

Test current

Upper limiting temperature  
Requirements < 100°C**Climatic tests (D)**

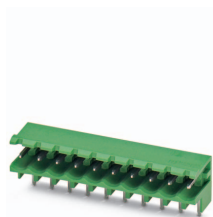
Test sequence 1: low temperature storage

Test sequence 2: heat storage

Test sequence 3: noxious gas storage  
(ISO 6988)Rated impulse voltage at sea level  
Voltage waveform  $\geq (1.2/50 \mu s)$ Power-frequency withstand voltage  
Voltage waveform  $\geq (50/60 \text{ Hz})$ **Environmental and endurance tests (E)**

Specification

Degree of protection

**MSTBW 2,5/..-G**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1.3 m $\Omega$ 

25

1.3 m $\Omega$ 

4.8 kV

2.21 kV

> 0.2 T $\Omega$ 

20

2.5 mm<sup>2</sup>

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm<sup>3</sup> SO<sub>2</sub> on 300 dm<sup>3</sup>/  
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20  
test finger