

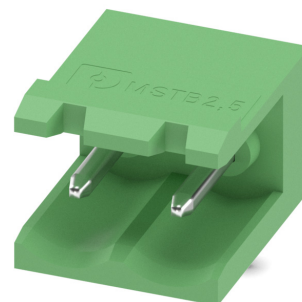
Data sheet

2024-03-19
Product version 05
Document revision 02

Item No.: 1759017

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

PCB headers



1 Main features



- | | | | |
|-------------------------|---------------------|------------------------|---------------------|
| • No. of pos. | 2 | • Nominal current | 12 A |
| • Nominal cross section | 2.5 mm ² | • Nominal voltage | 320 V |
| • Color | green (RAL 6021) | • Connection direction | 0 ° |
| • Pitch | 5.08 mm | • Type of packaging | packed in cardboard |
| • Mounting type | Wave soldering | | |

2 Your advantages

- ✓ Maximum flexibility when it comes to device design – one header for connectors with different connection technologies
- ✓ Easy PCB replacement thanks to plug-in modules
- ✓ Well-known mounting principle allows worldwide use
- ✓ Plug-in direction parallel to the PCB
- ✓ Items that can be aligned in various pitches support flexible and space-saving PCB assembly



Make sure you always use the latest documentation.

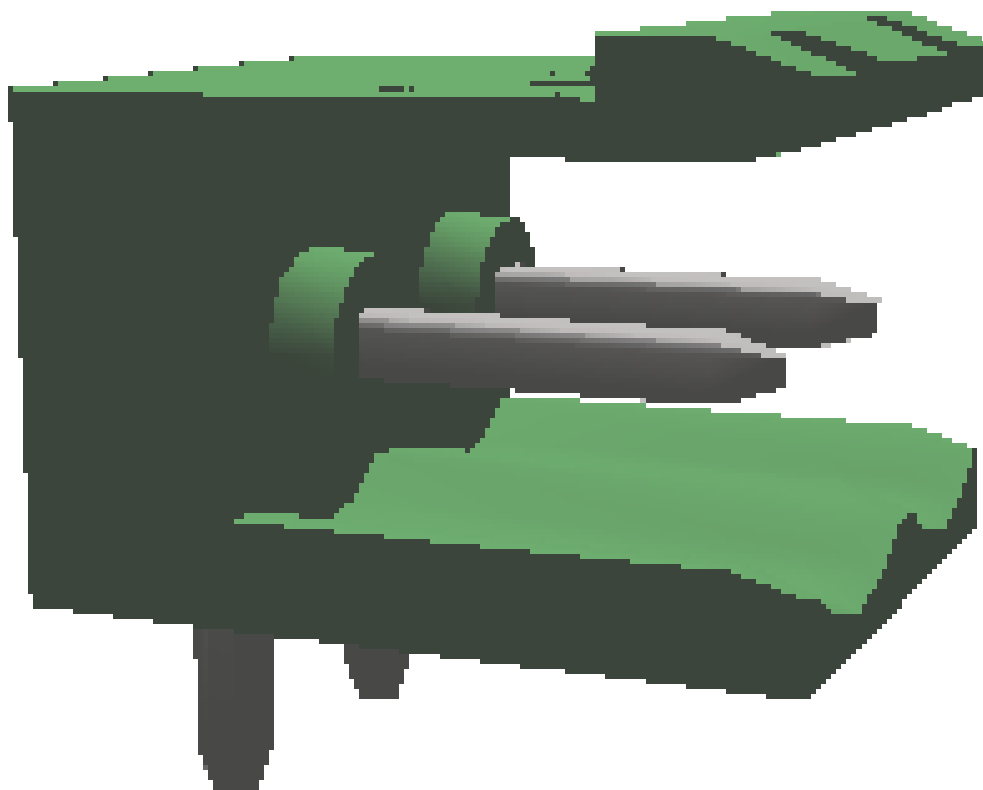
It can be downloaded at: phoenixcontact.com/product/1759017

3 Table of contents

1	Main features.....	1
2	Your advantages	1
3	Table of contents	2
4	3D model in PDF can be activated (Acrobat Reader only)	3
5	General Technical Data	4
6	Mounting.....	5
7	Material properties.....	5
8	Dimensions.....	6
9	Series drawing.....	7
10	Product notes	8
11	Application.....	8
12	Packaging specifications	8
13	Mechanical tests.....	9
14	Insertion and withdrawal forces	10
15	Electrical tests	11
16	Air and creepage distances	12
17	Current carrying capacity/derating curves	13
18	Environmental and durability tests	19
19	Data transmission.....	20
20	Approvals / Certificates.....	21
21	Commercial Data.....	22
22	corresponding plugs	22
23	Accessories	22
24	Combination tests.....	23

1759017 MSTB 2,5/ 2-G-5,08

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



1759017 MSTB 2,5/ 2-G-5,08**5 General Technical Data****5.1 item properties**

Item no.	1759017
Type	MSTB 2,5/ 2-G-5,08
Product line	COMBICON Connectors M
Connector system	COMBICON MSTB 2,5
Product type	PCB headers
Contact connection type	Pin
Range of articles	MSTB 2,5/..-G
Pitch	5.08 mm
Number of positions	2
Number of rows	1
Number of connections	2
Number of potentials	2
Connection direction of the connector to the PCB	0 °
Pin layout	Linear pinning
Solder pins per potential	1
Type	Standard

1759017 MSTB 2,5/ 2-G-5,08**6 Mounting****6.1 Flange mounting**

Type of locking	without
Mounting flange	without

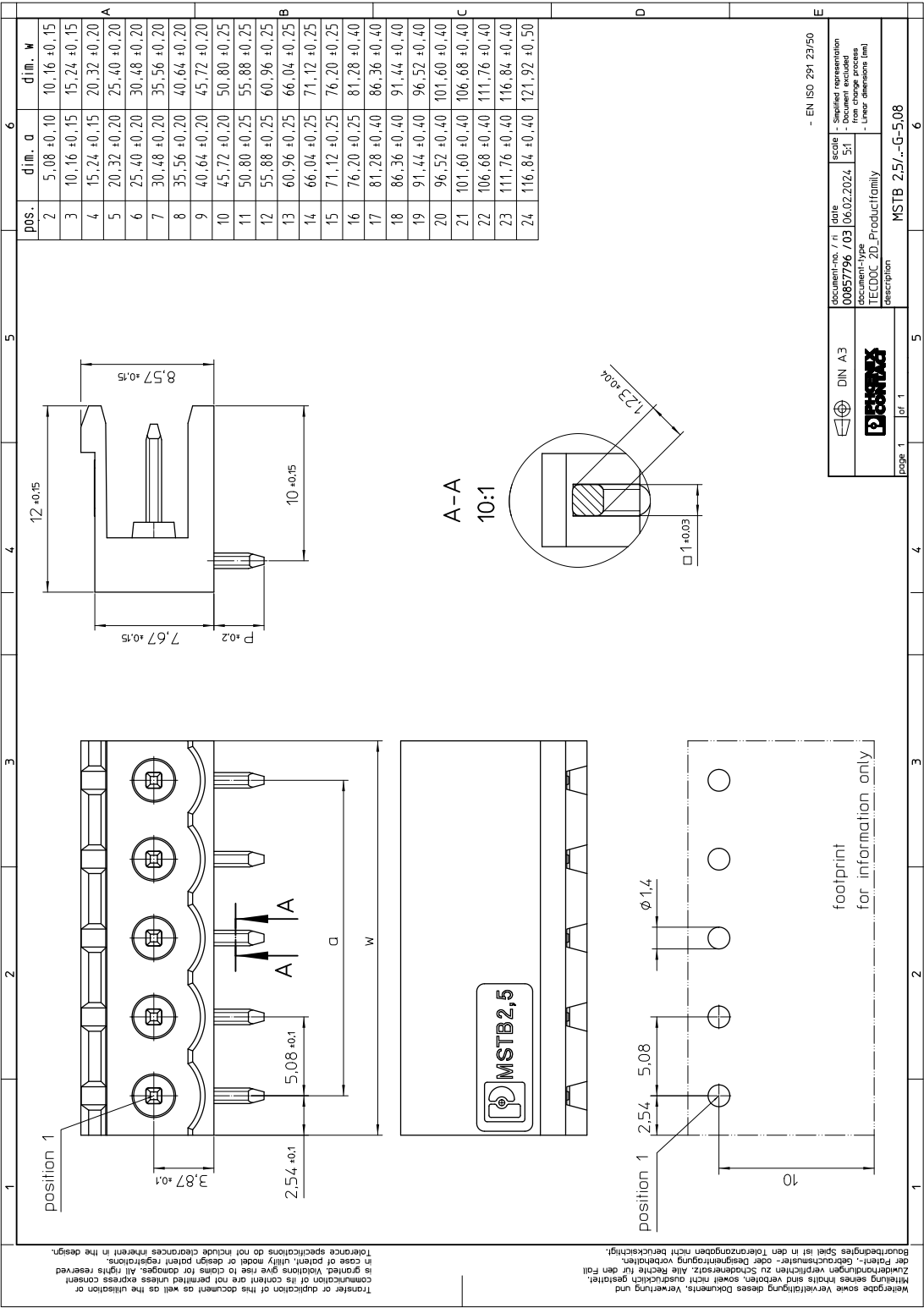
7 Material properties**7.1 Material of metal parts**

Note	WEEE/RoHS-compliant, whisker-free acc. to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface contact area	Nickel (1.3 - 3 µm Ni) , Tin (3 - 5 µm Sn)
Soldering area surface	Nickel (1.3 - 3 µm Ni) , Tin (3 - 5 µm Sn)
Surface characteristics	Tin-plated
Insulating material data	Housing
Color	green (RAL 6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
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

1759017 MSTB 2,5/ 2-G-5,08**8 Dimensions****8.1 Dimensions for the product**

Length	12 mm
Width	10.16 mm
Height (without solder pin)	8.57 mm
Total height	11.8 mm
Solder pin [P]	3.23 mm

9 Series drawing



1759017 MSTB 2,5/ 2-G-5,08**10 Product notes****10.1 General information**

Notes on operation

In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

11 Application**12 Packaging specifications**

Type of packaging

packed in cardboard

Packing unit

250

12.1 Temperature limit values

Ambient temperature (storage/transport)

-40 °C ... 70 °C

Relative humidity (storage/transport)

30 % ... 70 %

Ambient temperature (assembly)

-5 °C ... 100 °C

Ambient temperature (operation)

-40 °C ... 100 °C (dependent on the derating curve)

1759017 MSTB 2,5/ 2-G-5,08**13 Mechanical tests****13.1 Visual examination**

Specification	IEC 61984:2008-10
Visual examination	Test passed
Specification	IEC 60512-1-1:2002-02

13.2 Dimensional test

Dimensional test	Test passed
Specification	IEC 60512-1-2:2002-02

13.3 Resistance of marking

Resistance of marking	Test passed
Specification	IEC 60068-2-70:1995-12

13.4 Polarization and coding

Polarization and coding	Test passed
Specification	IEC 60512-13-5:2006-02
Test force	20 N

13.5 Contact retention in insert

Contact holder in insert Requirements >20 N	Test passed
Specification	IEC 60512-15-1:2008-05

1759017 MSTB 2,5/ 2-G-5,08**14 Insertion and withdrawal forces**

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

1759017 MSTB 2,5/ 2-G-5,08**15 Electrical tests**

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	1.4 mΩ
Degree of pollution	2

1759017 MSTB 2,5/ 2-G-5,08**16 Air and creepage distances**

Component	PCB headers		
Specification	IEC 60664-1:2007-04		
Mains type	unearthed mains		
Insulating material group	I		
Comparative tracking index (IEC 60112)	CTI 600		
Rated insulation voltage	320 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	4 mm	3 mm	3.2 mm

1759017 MSTB 2,5/ 2-G-5,08

17 Current carrying capacity/derating curves

Specification

IEC 61984:2008-10

Note

Representation based on IEC 60512-5-2:2002-02

Note

For number of positions, see diagram

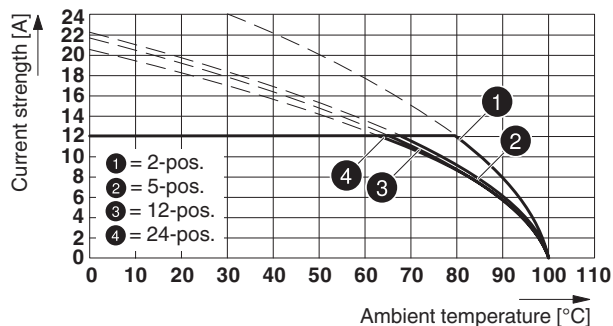
Reduction factor

0.8

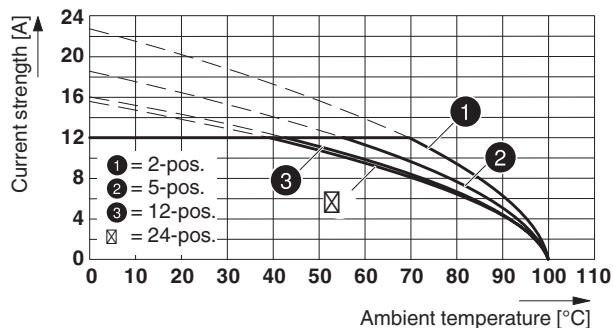
Conductor cross section

2.5 mm²

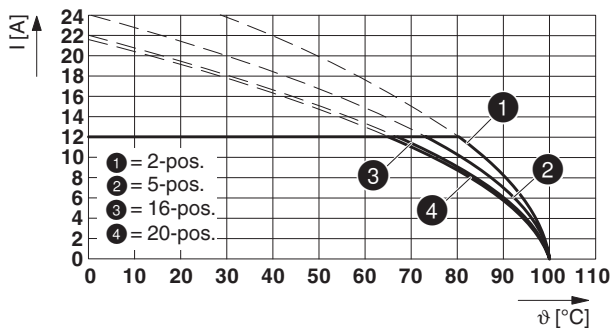
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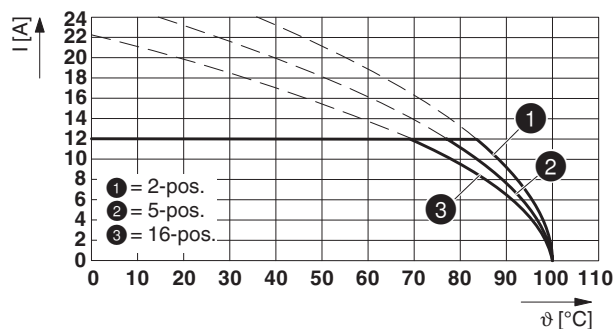
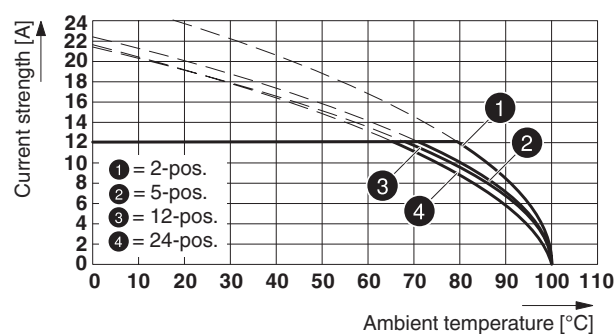
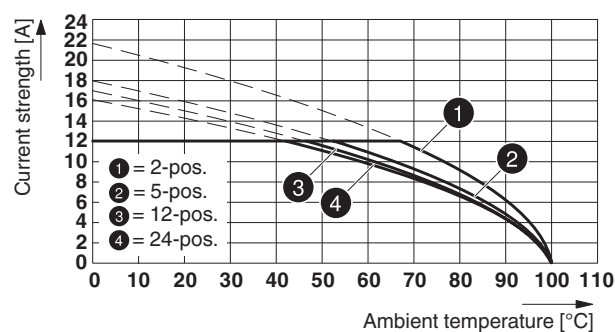


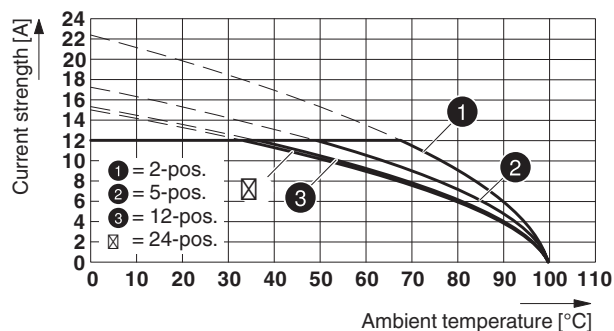
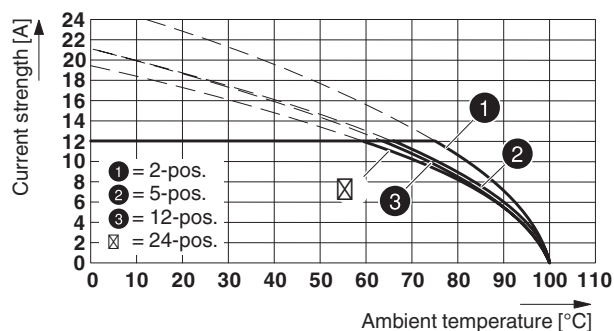
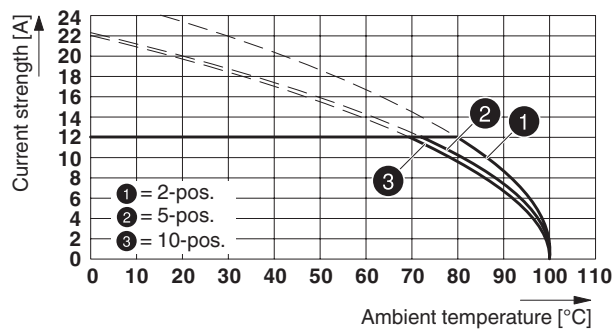
Type: MSTBU 2,5/...-STD-5,08 with MSTB 2,5/...-G-5,08

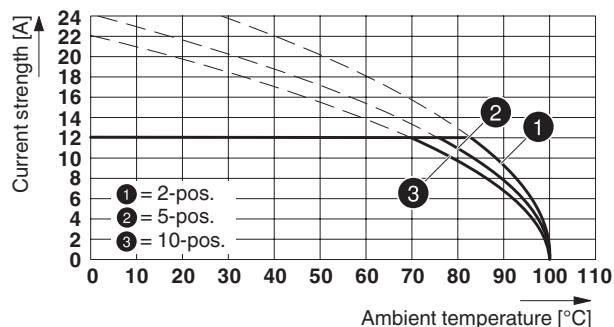
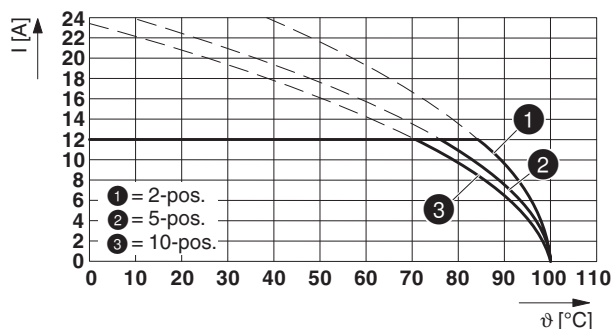
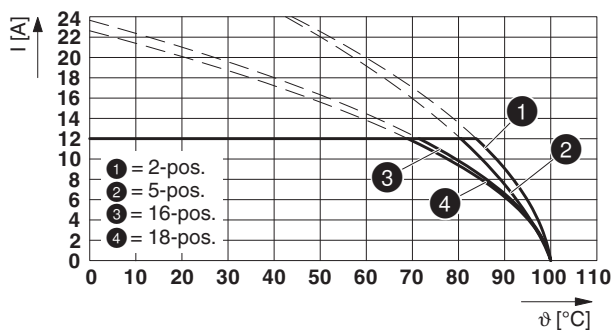
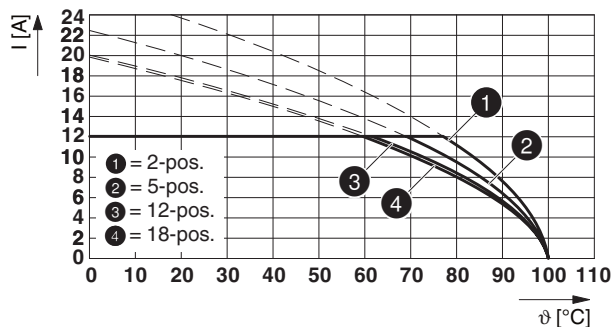


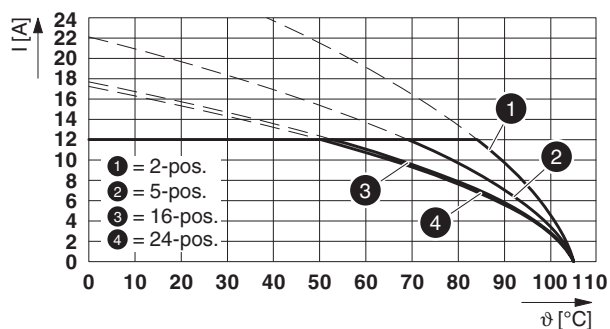
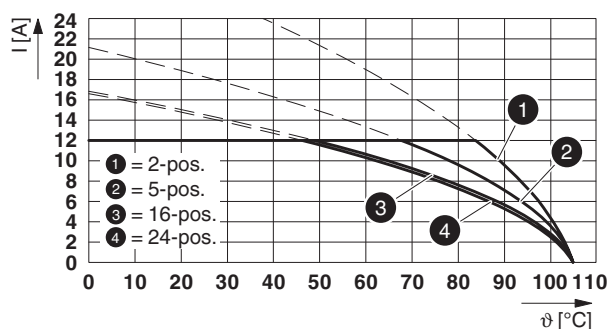
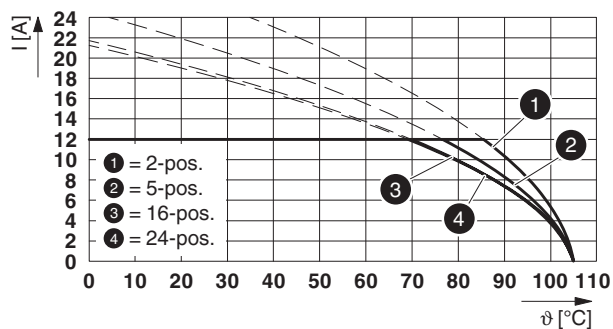
Type: FKCT 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08

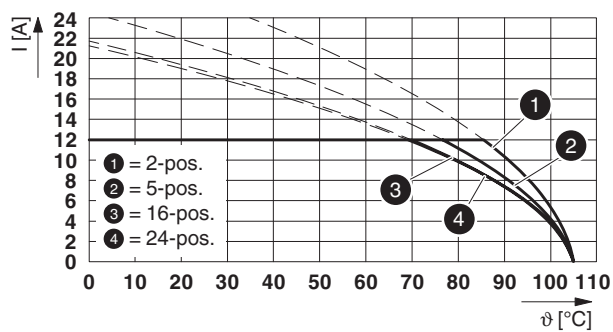


1759017 MSTB 2,5/ 2-G-5,08**Type: FKCV(W/R) 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08****Type: MSTBP 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08****Type: SMSTB 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08**

1759017 MSTB 2,5/ 2-G-5,08**Type: MVSTB(R/W) 2,5/...-ST with MDSTBVA 2,5/...-G-5,08****Type: FRONT-MSTB 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08****Type: TMSTBP 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08**

1759017 MSTB 2,5/ 2-G-5,08**Type: TVMSTB 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08****Type: TFKC 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08****Type: FKCN 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08****Type: MSTBT 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08**

1759017 MSTB 2,5/ 2-G-5,08**Type: ICV 2,5/...-G-5,08 with MSTB 2,5/...-G-5,08****Type: IC 2,5/...-G-5,08 with MSTB 2,5/...-G-5,08****Type: FKCOR 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08**

1759017 MSTB 2,5/ 2-G-5,08**Type: FKCOV 2,5/...-ST-5,08 with MSTB 2,5/...-G-5,08**

1759017 MSTB 2,5/ 2-G-5,08**18 Environmental and durability tests****18.1 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 Hz ... 60.1 Hz)
Acceleration	5g (60.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
Note	The connecting cables must be strain relieved.

18.2 Insulation resistance

Specification	IEC 60512-3-1:2002-02
Result	Test passed
Insulation resistance, neighboring positions	> 5 MΩ

1759017 MSTB 2,5/ 2-G-5,08

19 Data transmission

1759017 MSTB 2,5/ 2-G-5,08

20 Approvals / Certificates

CSA 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
Usegroup B				
	300 V	10 A	-	-
Usegroup D				
	300 V	10 A	-	-
cULus Recognized 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
Usegroup B				
	300 V	15 A	-	-
Usegroup D				
	300 V	10 A	-	-
VDE Zeichengenehmigung 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
	250 V	12 A	-	-

1759017 MSTB 2,5/ 2-G-5,08**21 Commercial Data**

Item no.	1759017
Type	MSTB 2,5/ 2-G-5,08
Packing unit	250
Net weight	0.5 g
GTIN	4017918030483
	Information that applies locally, see link on page 1

22 corresponding plugs

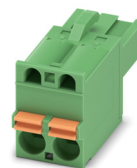
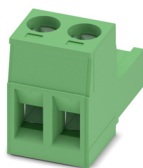
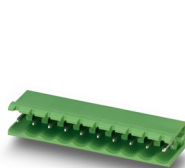
Item no.	Type
1757019	MSTB 2,5/ 2-ST-5,08
1110581	LPC 2,5/ 2-ST-5,08
1719008	TVMSTB 2,5/ 2-ST-5,08
1754568	FKCN 2,5/ 2-ST-5,08
1777280	FRONT-MSTB 2,5/ 2-ST-5,08
1779987	MSTBT 2,5/ 2-ST-5,08
1792249	MVSTBR 2,5/ 2-ST-5,08
1792757	MVSTBW 2,5/ 2-ST-5,08
1808816	MSTBC 2,5/ 2-ST-5,08
1809501	MSTBC 2,5/ 2-STZ-5,08
1824120	MSTBU 2,5/ 2-STD-5,08
1853010	TMSTBP 2,5/ 2-ST-5,08
1873058	FKC 2,5/ 2-ST-5,08
1873650	FKCVW 2,5/ 2-ST-5,08
1873951	FKCVR 2,5/ 2-ST-5,08
1883255	QC 1/ 2-ST-5,08
1902110	FKCT 2,5/ 2-ST-5,08
1962600	TFKC 2,5/ 2-ST-5,08
1975079	FKCS 2,5/ 2-ST-5,08

23 Accessories

Description	Item No.	Type
Coding section, inserted into the recess in the header or the inverted plug, red insulating material	1734401	CR-MSTB
Mounting flange, for fixing both ends of the header onto the PCB, green insulating material, with M 2 x 14 screws and nuts.	1759981	MSTB-BF
Keying cap, for forming sections, plugs onto header pin, green insulating material	1755477	MSTB-BL
	0804293	SK 5,08/3,8:FORTL.ZAHLEN
	0805412	SK 5,08/3,8:UNBEDRUCKT

1759017 MSTB 2,5/ 2-G-5,08

24 Combination tests

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

IEC 61984

Mechanical tests (A)

Insertion/withdrawal force per position

Polarization when inserted
Requirement >20 NContact holder in insert
Requirements >20 N**Durability tests (B)**Contact resistance R_1 1st levelContact resistance R_1 2nd level

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 Ω **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

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

MSTB 2,5/..-ST

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1.4 m Ω

25

1.4 m Ω

4.8 kV

2.21 kV

> 5 M Ω

24

2.5 mm²

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger**MSTBU 2,5/..-STD**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

2.5 m Ω

25

2.5 m Ω

4.8 kV

2.21 kV

> 5 M Ω

24

2.5 mm²

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger**FKCT 2,5/..-ST**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1.3 m Ω

25

1.1 m Ω

4.8 kV

2.21 kV

> 5 M Ω

20

2.5 mm²

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger**FKCVW 2,5/..-ST**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1 m Ω

25

1.1 m Ω

4.8 kV

2.21 kV

> 5 M Ω

16

2.5 mm²

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

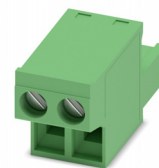
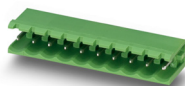
4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger

1759017 MSTB 2,5/ 2-G-5,08

**MSTB 2,5/..-G****MSTBP 2,5/..-ST****SMSTB 2,5/..-ST****MVSTBW 2,5/..-ST****FRONT-MSTB 2,5/..-ST**

IEC 61984

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 1st level1.3 m Ω 2.4 m Ω 2.6 m Ω 1.6 m Ω Contact resistance R_1 2nd level

Insertion/withdrawal cycles

25

25

25

25

Contact resistance R_2 1.4 m Ω 2.4 m Ω 2.6 m Ω 1.6 m Ω Rated impulse voltage at sea level
Voltage waveform $\geq$ (1.2/50 μ s)

4.8 kV

4.8 kV

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform $\geq$ (50/60 Hz)

2.21 kV

2.21 kV

2.21 kV

2.21 kV

Insulation resistance
Requirements > 5 M Ω > 5 M Ω > 5 M Ω > 5 M Ω > 5 M Ω **Thermal tests (C)**

Tested number of positions

24

24

24

24

Tested conductor cross section

2.5 mm²2.5 mm²2.5 mm²2.5 mm²

Test current

12 A

12 A

12 A

12 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

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycleRated impulse voltage at sea level
Voltage waveform $\geq$ (1.2/50 μ s)

4.8 kV

4.8 kV

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform $\geq$ (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

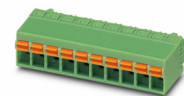
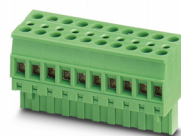
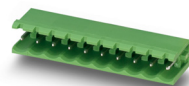
IEC 61984:2008-10

IEC 61984:2008-10

Degree of protection

Finger safety with IP20
test fingerFinger safety with IP20
test fingerFinger safety with IP20
test fingerFinger safety with IP20
test finger

1759017 MSTB 2,5/ 2-G-5,08

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

IEC 61984

Mechanical tests (A)

Insertion/withdrawal force per position

Polarization when inserted
Requirement >20 NContact holder in insert
Requirements >20 N**Durability tests (B)**Contact resistance R₁ 1st levelContact resistance R₁ 2nd level

Insertion/withdrawal cycles

Contact resistance R₂Rated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)Insulation resistance
Requirements > 5 MΩ**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

Rated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)**Environmental and endurance tests (E)**

Specification

Degree of protection

TMSTBP 2,5/..-ST

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1.1 mΩ

25

1.1 mΩ

4.8 kV

2.21 kV

> 5 MΩ

10

2.5 mm²

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger**TVMSTB 2,5/..-ST**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1.1 mΩ

25

1.2 mΩ

4.8 kV

2.21 kV

> 5 MΩ

10

2.5 mm²

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger**TFKC 2,5/..-ST**

IEC 61984

approx. 12 N / 11 N

Test passed

Test passed

1.1 mΩ

25

1.1 mΩ

4.8 kV

2.21 kV

> 5 MΩ

10

2.5 mm²

12 A

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger**FKCN 2,5/..-ST**

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1 mΩ

25

1.1 mΩ

4.8 kV

2.21 kV

> 5 MΩ

18

2.5 mm²

12 A

Test passed

-40 °C/2 h

100 °C/168 h

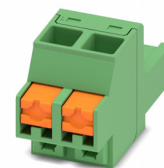
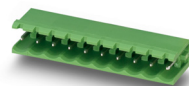
0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger

1759017 MSTB 2,5/ 2-G-5,08**MSTB 2,5/..-G**

IEC 61984

Mechanical tests (A)

Insertion/withdrawal force per position

Polarization when inserted
Requirement >20 NContact holder in insert
Requirements >20 N**Durability tests (B)**Contact resistance R₁ 1st levelContact resistance R₁ 2nd level

Insertion/withdrawal cycles

Contact resistance R₂Rated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)Insulation resistance
Requirements > 5 MΩ**Thermal tests (C)**

Tested number of positions

Tested conductor cross section

Test current

Upper limiting temperature
Requirements < 100°CUpper 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

Rated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)**Environmental and endurance tests (E)**

Specification

Degree of protection

MSTBT 2,5/..-ST

IEC 61984

approx. 8 N / 6 N

Test passed

Test passed

1.4 mΩ

25

1.4 mΩ

4.8 kV

2.21 kV

> 5 MΩ

18

2.5 mm²

12 A

Test passed

Test passed

-40 °C/2 h

100 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

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

IEC 61984

approx. 11 N / 8 N

Test passed

Test passed

1.2 mΩ

25

1.3 mΩ

4.8 kV

2.21 kV

> 5 MΩ

24

2.5 mm²

12 A

Test passed

Test passed

-40 °C/2 h

105 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

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

IEC 61984

approx. 10 N / 8 N

Test passed

Test passed

1.2 mΩ

25

1.3 mΩ

4.8 kV

2.21 kV

> 5 MΩ

24

2.5 mm²

12 A

Test passed

Test passed

-40 °C/2 h

105 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Back of hand safety with
IP10 access probe**FKCOR 2,5/..-ST**

IEC 61984

approx. 10 N / 9 N

Test passed

Test passed

1.2 mΩ

25

1.2 mΩ

4.8 kV

2.21 kV

> 5 MΩ

24

2.5 mm²

12 A

Test passed

Test passed

-40 °C/2 h

105 °C/168 h

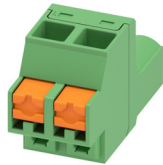
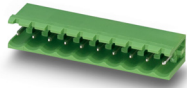
0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger



MSTB 2,5/..-G

IEC 61984

Mechanical tests (A)

Insertion/withdrawal force per position

Polarization when inserted
Requirement >20 N

Contact holder in insert
Requirements >20 N

Durability tests (B)

Contact resistance R₁ 1st level

Contact resistance R₁ 2nd level

Insertion/withdrawal cycles

Contact resistance R₂

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

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

Insulation resistance
Requirements > 5 MΩ

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

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

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

Environmental and endurance tests (E)

Specification

Degree of protection

FKCOW 2,5/..-ST

IEC 61984

approx. 10 N / 9 N

Test passed

Test passed

1.2 mΩ

25

1.2 mΩ

4.8 kV

2.21 kV

> 5 MΩ

24

2.5 mm²

12 A

Test passed

-40 °C/2 h

105 °C/168 h

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle

4.8 kV

2.21 kV

IEC 61984:2008-10

Finger safety with IP20
test finger