

# Printed-circuit board connector - MSTB 2,5/ 5-STF-5,08 - 1778014

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Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, 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

## Why buy this product

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Screwable flange for superior mechanical stability
- Allows connection of two conductors



## Key Commercial Data

Packing unit	100 STK
GTIN	
GTIN	4017918039882
Weight per Piece (excluding packing)	9.420 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Length [ l ]	18.3 mm
Width [ w ]	35.41 mm
Height [ h ]	15 mm
Pitch	5.08 mm
Dimension a	20.32 mm

### General

Range of articles	MSTB 2,5/...-STF
Type of contact	Female connector

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## Technical data

### General

Number of positions	5
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 $I_N$	12 A
Nominal cross section	2.5 mm <sup>2</sup>
Maximum load current	12 A (with a 2.5 mm <sup>2</sup> conductor cross section)
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
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>

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## Technical data

### Connection data

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

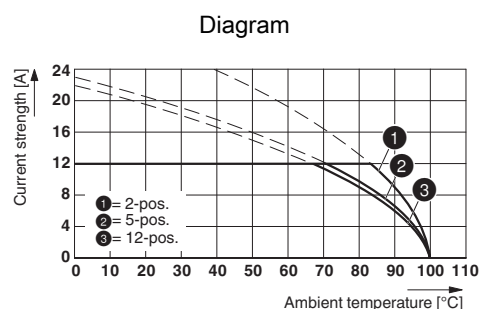
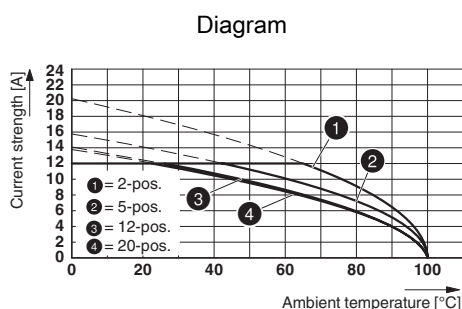
### Standards and Regulations

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

### Environmental Product Compliance

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

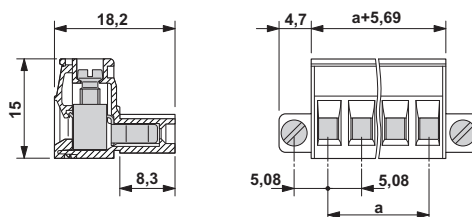
## Drawings



Type: MSTB 2,5/...-STF-5,08 with MSTBV 2,5/...-GF-5,08

Type: MSTB 2,5/...-STF-5,08 with CC 2,5/...-GF-5,08 P26THR

### Dimensional drawing



## Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701

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## Classifications

### eCl@ss

eCl@ss 5.1	27260701
eCl@ss 6.0	27260704
eCl@ss 7.0	27440402
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

### UNSPSC

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

## Approvals


### Approvals

#### Approvals

CSA / VDE Gutachten mit Fertigungsüberwachung / RS / IEC60335 CB Scheme / cULus Recognized / EAC / DNV GL

#### Ex Approvals

### Approval details

CSA		13631
	B	D
mm <sup>2</sup> /AWG/kcmil	28-12	28-12
Nominal current I <sub>N</sub>	10 A	10 A
Nominal voltage U <sub>N</sub>	300 V	300 V

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## Approvals

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a>	40004701
mm²/AWG/kcmil	0.2-2.5		
Nominal current IN	12 A		
Nominal voltage UN	250 V		

RS		<a href="http://www.rs-head.spb.ru/en/index.php">http://www.rs-head.spb.ru/en/index.php</a>	10.04059.250
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IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-58978-B1B2
mm²/AWG/kcmil	0.2-2.5		
Nominal current IN	12 A		
Nominal voltage UN	250 V		

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	
mm²/AWG/kcmil	30-12	30-12	
Nominal current IN	15 A	15 A	
Nominal voltage UN	300 V	150 V	

EAC		B.01742
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DNV GL	<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	TAE00001EY
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## Accessories

Accessories

Bridge

## Printed-circuit board connector - MSTB 2,5/ 5-STF-5,08 - 1778014

### Accessories

Insertion bridge - EBP 2- 5 - 1733169



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 2

Insertion bridge - EBP 4- 5 - 1733185



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 4

Insertion bridge - EBP 5- 5 - 1733198



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 5

Insertion bridge - EBP 3- 5 - 1733172



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 3

### Coding element

Coding profile - CP-MSTB - 1734634



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

### Labeled terminal marker

## Printed-circuit board connector - MSTB 2,5/ 5-STF-5,08 - 1778014

### Accessories

Marker card - SK 5,08/3,8:FORTL.ZAHLEN - 0804293



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: adhesive, for terminal block width: 5.08 mm, Lettering field: 5.08 x 3.8 mm

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### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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### Screwdriver tools

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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### Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Office printing systems, Mounting type: adhesive, for terminal block width: 210 mm, Lettering field: 186 x 3.8 mm

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### Additional products

## Printed-circuit board connector - MSTB 2,5/ 5-STF-5,08 - 1778014

### Accessories

#### Base strip - MSTB 2,5/ 5-GF-5,08 - 1776537

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MSTBV 2,5/ 5-GF-5,08 - 1777109

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MDSTB 2,5/ 5-GF-5,08 - 1842393

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



#### Base strip - MDSTBV 2,5/ 5-GF-5,08 - 1845662

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



#### Base strip - DFK-MSTBA 2,5/ 5-GF-5,08 - 1899016



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



## Printed-circuit board connector - MSTB 2,5/ 5-STF-5,08 - 1778014

### Accessories

Base strip - DFK-MSTBVA 2,5/ 5-GF-5,08 - 1899317



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

Base strip - EMSTB 2,5/ 5-GF-5,08 - 1899647



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Press-in technology

Base strip - EMSTBV 2,5/ 5-GF-5,08 - 1915246



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Press-in technology

Base strip - MSTB 2,5/ 5-GF-5,08 THT - 1927593



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

Base strip - MSTBV 2,5/ 5-GF-5,08 THT BK - 1940923



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

## Printed-circuit board connector - MSTB 2,5/ 5-STF-5,08 - 1778014

### Accessories

#### Printed-circuit board connector - CC 2,5/ 5-GF-5,08 P26THR - 1954728

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



#### Printed-circuit board connector - CC 2,5/ 5-GF-5,08 P26THRR56 - 1954838

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



#### Printed-circuit board connector - CCV 2,5/ 5-GF-5,08 P26THR - 1955662

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



#### Printed-circuit board connector - CCV 2,5/ 5-GF-5,08 P26THRR56 - 1955772

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 5, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

