

## Printed-circuit board connector - MSTB 2,5/12-STF-5,08 - 1778085

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PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 12, 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

### Your advantages

- ✓ 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	1 pc
GTIN	 4 017918 039950
GTIN	4017918039950
Weight per Piece (excluding packing)	21.600 g
Custom tariff number	85366990
Country of origin	United States

### Technical data

#### Dimensions

Length [ l ]	18.3 mm
Width [ w ]	70.97 mm
Height [ h ]	15 mm
Pitch	5.08 mm
Dimension a	55.88 mm

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## Technical data

### General

Range of articles	MSTB 2,5/...STF
Number of positions	12
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>

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Technical data

Connection data

2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm²
Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	12

Standards and Regulations

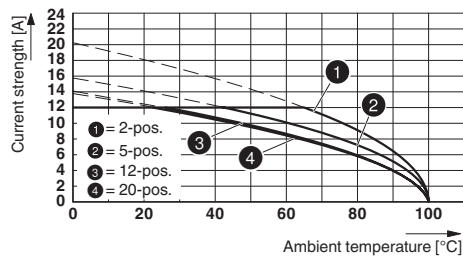
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

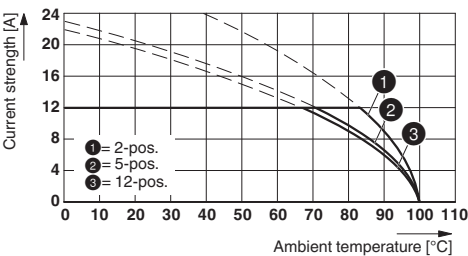
Drawings

Diagram



Type: MSTB 2,5/12-STF-5,08 with MSTBV 2,5/12-GF-5,08

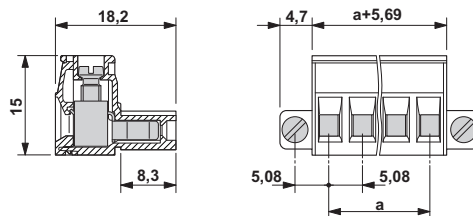
Diagram



Type: MSTB 2,5/12-STF-5,08 with CC 2,5/12-GF-5,08 P26THR

## Printed-circuit board connector - MSTB 2,5/12-STF-5,08 - 1778085

Dimensional drawing



### Classifications

#### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440309
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

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DNV GL / CSA / RS / IEC60335-1 / IEC60335-2-1 / IEC60335-2-15 / IEC60335-2-16 / IEC60335-2-17 / IEC60335-2-18 / IEC60335-2-19 / IEC60335-2-20 / IEC60335-2-21 / IEC60335-2-22 / IEC60335-2-23 / IEC60335-2-24 / IEC60335-2-25 / IEC60335-2-26 / IEC60335-2-27 / IEC60335-2-28 / IEC60335-2-29 / IEC60335-2-30 / IEC60335-2-31 / IEC60335-2-32 / IEC60335-2-33 / IEC60335-2-34 / IEC60335-2-35 / IEC60335-2-36 / IEC60335-2-37 / IEC60335-2-38 / IEC60335-2-39 / IEC60335-2-40 / IEC60335-2-41 / IEC60335-2-42 / IEC60335-2-43 / IEC60335-2-44 / IEC60335-2-45 / IEC60335-2-46 / IEC60335-2-47 / IEC60335-2-48 / IEC60335-2-49 / IEC60335-2-50 / IEC60335-2-51 / IEC60335-2-52 / IEC60335-2-53 / IEC60335-2-54 / IEC60335-2-55 / IEC60335-2-56 / IEC60335-2-57 / IEC60335-2-58 / IEC60335-2-59 / IEC60335-2-60 / IEC60335-2-61 / IEC60335-2-62 / IEC60335-2-63 / IEC60335-2-64 / IEC60335-2-65 / IEC60335-2-66 / IEC60335-2-67 / IEC60335-2-68 / IEC60335-2-69 / IEC60335-2-70 / IEC60335-2-71 / IEC60335-2-72 / IEC60335-2-73 / IEC60335-2-74 / IEC60335-2-75 / IEC60335-2-76 / IEC60335-2-77 / IEC60335-2-78 / IEC60335-2-79 / IEC60335-2-80 / IEC60335-2-81 / IEC60335-2-82 / IEC60335-2-83 / IEC60335-2-84 / IEC60335-2-85 / IEC60335-2-86 / IEC60335-2-87 / IEC60335-2-88 / IEC60335-2-89 / IEC60335-2-90 / IEC60335-2-91 / IEC60335-2-92 / IEC60335-2-93 / IEC60335-2-94 / IEC60335-2-95 / IEC60335-2-96 / IEC60335-2-97 / IEC60335-2-98 / IEC60335-2-99 / IEC60335-2-100


# Printed-circuit board connector - MSTB 2,5/12-STF-5,08 - 1778085

## Approvals


Ex Approvals


### Approval details

DNV GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	TAE00001EY
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CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	LR13631-2585950
	D	B	
Nominal voltage UN	300 V	300 V	
Nominal current IN	10 A	15 A	
mm²/AWG/kcmil	28-12	28-12	


RS		<a href="http://www.rs-head.spb.ru/en/index.php">http://www.rs-head.spb.ru/en/index.php</a>	17.00014.272
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IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-58978-B1B2
Nominal voltage UN	250 V		
Nominal current IN	12 A		
mm²/AWG/kcmil	0.2-2.5		

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/ VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40004701
Nominal voltage UN	250 V		
Nominal current IN	12 A		
mm²/AWG/kcmil	0.2-2.5		

## Printed-circuit board connector - MSTB 2,5/12-STF-5,08 - 1778085

### Approvals

EAC		B.01742
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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
	D	B	
Nominal voltage UN	150 V	300 V	
Nominal current IN	15 A	15 A	
mm²/AWG/kcmil	30-12	30-12	

### Accessories

#### Accessories

##### Bridge

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

## Printed-circuit board connector - MSTB 2,5/12-STF-5,08 - 1778085

### Accessories

Insertion bridge - EBP 3- 5 - 1733172



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

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Insertion bridge - EBP 6- 5 - 1733208



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 6

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### Coding element

Coding profile - CP-MSTB - 1734634



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

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### Labeled terminal marker

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 size: 5.08 x 3.8 mm

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### Marker pen

## Printed-circuit board connector - MSTB 2,5/12-STF-5,08 - 1778085

### Accessories

Marker pen - B-STIFT - 1051993



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

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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: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm

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### Additional products



## Printed-circuit board connector - MSTB 2,5/12-STF-5,08 - 1778085

### Accessories

#### Feed-through header - MSTB 2,5/12-GF-5,08 - 1776605

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



#### Printed-circuit board connector - MSTBV 2,5/12-GF-5,08 - 1777170

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



#### Feed-through header - MDSTB 2,5/12-GF-5,08 - 1842461

PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 12, 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!



#### Feed-through header - MDSTBV 2,5/12-GF-5,08 - 1845730

PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 12, 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!



#### Printed-circuit board connector - DFK-MSTBA 2,5/12-GF-5,08 - 1899087



Feed-through header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 12, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - MSTB 2,5/12-STF-5,08 - 1778085

### Accessories

Printed-circuit board connector - DFK-MSTBVA 2,5/12-GF-5,08 - 1899388



Feed-through header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 12, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering

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Feed-through header - EMSTB 2,5/12-GF-5,08 - 1899715



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

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Feed-through header - EMSTBV 2,5/12-GF-5,08 - 1915314



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

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Printed-circuit board connector - CC 2,5/12-GF-5,08 P26THR - 1954799



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 12, 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"

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Printed-circuit board connector - CC 2,5/12-GF-5,08 P26THRR88 - 1954906



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 12, 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 2,5/12-STF-5,08 - 1778085

### Accessories

#### Printed-circuit board connector - CCV 2,5/12-GF-5,08 P26THR - 1955730



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 12, 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"

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#### Printed-circuit board connector - CCV 2,5/12-GF-5,08 P26THRR88 - 1955840



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 12, 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"

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#### Printed-circuit board connector - CC 2,5/12-GFL-5,08P26THR - 1956360



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 12, pitch: 5.08 mm, color: black, contact surface: Tin, mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.