

# Printed-circuit board connector - MVSTBW 2,5/16-ST-5,08 - 1792896

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Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Connection method: Screw connection, Color: green, Contact surface: Tin




The figure shows a 10-position version of the product

## Why buy this product

- For larger numbers of positions up to 24-pos., visit: [phoenixcontact.net/products](http://phoenixcontact.net/products)
- MSTB plugs for vertical plug-in direction
- Conductor entry on the rippled side of the plug



## Key commercial data

Packing unit	50 pc
GTIN	 4 017918 045326
Weight per Piece (excluding packing)	26.98 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Pitch	5.08 mm
Dimension a	76.2 mm

### General

Range of articles	MVSTBW 2,5/..-ST
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

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### Technical data

#### General

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
Insulating material	PA
Inflammability class according to UL 94	V0
Internal cylindrical gage	A3
Stripping length	7 mm
Number of positions	16
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 stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil 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>
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

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## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
eCl@ss 6.0	27260704
eCl@ss 7.0	27440402
eCl@ss 8.0	27440402

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638

### UNSPSC

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

## Approvals

### Approvals


#### Approvals

UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / GOST / IECCEB CB Scheme / GOST / CCA / CSA / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### Approval details

UL Recognized 		
	B	D
mm <sup>2</sup> /AWG/kcmil	30-12	30-12

# Printed-circuit board connector - MVSTBW 2,5/16-ST-5,08 - 1792896

## Approvals

	B	D
Nominal current IN	15 A	10 A
Nominal voltage UN	300 V	300 V

VDE Gutachten mit Fertigungsüberwachung

	B	D
mm <sup>2</sup> /AWG/kcmil	0.2-2.5	
Nominal current IN	12 A	
Nominal voltage UN	250 V	

cUL Recognized

	B	D
mm <sup>2</sup> /AWG/kcmil	30-12	30-12
Nominal current IN	15 A	10 A
Nominal voltage UN	300 V	300 V

GOST

IECEE CB Scheme

	B	D
mm <sup>2</sup> /AWG/kcmil	0.2-2.5	
Nominal current IN	12 A	
Nominal voltage UN	250 V	

GOST

CCA

	B	D
mm <sup>2</sup> /AWG/kcmil	0.2-2.5	
Nominal current IN	12 A	
Nominal voltage UN	250 V	

# Printed-circuit board connector - MVSTBW 2,5/16-ST-5,08 - 1792896

## Approvals

CSA		
	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

cULus Recognized		
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## Accessories

### Accessories

#### Coding element

Coding star - CR-MSTB - 1734401

Coding section, inserted into the recess in the header or the inverted plug, red insulating material



Coding profile - CP-MSTB - 1734634

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



### Labeled terminal marker

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



Marker cards, 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

### Marker pen

## Printed-circuit board connector - MVSTBW 2,5/16-ST-5,08 - 1792896

### 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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### 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 cards - SK 5,08/3,8:UNBEDRUCKT - 0805412



Marker cards, Card, white, Unlabeled, Can be labeled with: Marker pen, Mounting type: Adhesive, For terminal block width: 5.08 mm, Lettering field: 5.08 x 3.8 mm

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### Additional products

Plug-in block - UMSTBVK 2,5/16-G-5,08 - 1788253



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Connection method: Screw connection, Color: green, Contact surface: Tin, Assembly: DIN rail

Base strip - MSTBVK 2,5/16-G-5,08 - 1788868



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Connection method: Screw connection, Color: green, Contact surface: Tin, Assembly: DIN rail

## Printed-circuit board connector - MVSTBW 2,5/16-ST-5,08 - 1792896

### Accessories

Base strip - MVSTBU 2,5/16-GB-5,08 - 1788677



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Connection method: Screw connection, Color: green, Contact surface: Tin, Assembly: Direct mounting

Feed-through terminal block - UK 3D-MSTBV-5,08 - 3002131



Feed-through terminal block, Connection method: Special and hybrid connection, Number of positions: 1, Cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, Width: 5.08 mm, Color: gray, Mounting type: NS 32, NS 35/15, NS 35/7,5

Feed-through terminal block - UK 3-MVSTB-5,08-LA 24RD - 3002102



Feed-through terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, Mounting type: NS 32, NS 35/15, NS 35/7,5, Number of positions: 1, Pitch: 5.08 mm, Width: 5.08, Color: gray

Feed-through terminal block - UK 3-MVSTB-5,08 - 3002076



Feed-through terminal block, Nominal current: 12 A, Nominal voltage: 250 V, Cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 24 - 12, Mounting type: NS 32, NS 35/15, NS 35/7,5, Number of positions: 1, Pitch: 5.08 mm, Width: 5.1, Color: gray

Base strip - EMSTBA 2,5/16-G-5,08 - 1880449



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Press-in

## Printed-circuit board connector - MVSTBW 2,5/16-ST-5,08 - 1792896

### Accessories

Base strip - EMSTBVA 2,5/16-G-5,08 - 1859658



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Press-in

Printed-circuit board connector - FKIC 2,5/16-ST-5,08 - 1873498



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Connection method: Spring-cage connection, Color: green, Contact surface: Tin

Base strip - MSTBA 2,5/16-G-5,08-LA - 1768082



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering

Base strip - MSTBA 2,5/16-G-5,08 - 1757381



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering

Base strip - MSTB 2,5/16-G-5,08-LA - 1770850



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering

## Printed-circuit board connector - MVSTBW 2,5/16-ST-5,08 - 1792896

### Accessories

#### Base strip - MDSTBV 2,5/16-G1-5,08 - 1762648



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering, 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 - MDSTB 2,5/16-G1-5,08 - 1762509



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering, 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 - SMSTBA 2,5/16-G-5,08 - 1767517



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering

#### Base strip - SMSTB 2,5/16-G-5,08 - 1769609



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering

#### Printed-circuit board connector - ICC 2,5/16-STZ-5,08 - 1823985



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 16, Pitch: 5.08 mm, Connection method: Crimp connection, Color: green, Corresponding male crimp contacts with current [A] and conductor cross section range [mm<sup>2</sup>] data: 10A/ICC-MT 0,5-1,0 (3190577); 10A/ICC-MT 0,5-1,0 BA (3190603); 12A/ICC-MT 1,5-2,5 (3190580); 12A/ICC-MT 1,5-2,5 BA (3190593). BA = Bandkontakte

### Drawings

## Printed-circuit board connector - MVSTBW 2,5/16-ST-5,08 - 1792896

Dimensioned drawing

