

# Printed-circuit board connector - MVSTBW 2,5/12-ST-5,08 - 1792854

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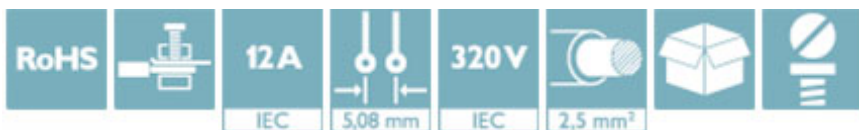


Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 12, Pitch: 5.08 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin

The figure shows a 10-position version of the product

## Why buy this product

- Well-known connection principle allows worldwide use
- 90° difference in plug-in direction for the conductor connection, reduces the risk of the connector being pulled out with the conductor and narrower conductor routing to the application
- Allows connection of two conductors



## Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 045289
GTIN	4017918045289
Weight per Piece (excluding packing)	24.240 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Width	60.96 mm
Pitch	5.08 mm
Dimension a	55.88 mm

### General

Range of articles	MVSTBW 2,5/...-ST
Type of contact	Female connector
Number of positions	12
Connection method	Screw connection with tension sleeve

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## Technical data

### General

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 <sub>N</sub>	12 A
Nominal cross section	2.5 mm <sup>2</sup>
Maximum load current	12 A
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>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm <sup>2</sup>

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## Technical data

### Connection data

Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	12

### Standards and Regulations

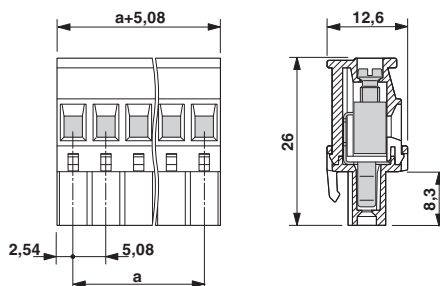
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

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

## Drawings

Dimensional drawing



## 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	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	EC002638

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## Classifications

### 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 / IECCEB Scheme / CSA / EAC / cULus Recognized

#### Ex Approvals

### Approval details

UL 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>	FILE E 60425
	B	D	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	
Nominal current I <sub>N</sub>	15 A	10 A	
Nominal voltage U <sub>N</sub>	300 V	300 V	

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
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current I <sub>N</sub>	12 A		
Nominal voltage U <sub>N</sub>	250 V		

cUL 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>	FILE E 60425
	B	D	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	
Nominal current I <sub>N</sub>	15 A	10 A	
Nominal voltage U <sub>N</sub>	300 V	300 V	

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## Approvals

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-56062-B1B2
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current I <sub>N</sub>	12 A		
Nominal voltage U <sub>N</sub>	250 V		

CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	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	

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>
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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



## Printed-circuit board connector - MVSTBW 2,5/12-ST-5,08 - 1792854

### Accessories

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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: 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

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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 5,08/3,8:UNBEDRUCKT - 0805412



Marker card, 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

## Printed-circuit board connector - MVSTBW 2,5/12-ST-5,08 - 1792854

### Accessories

#### Base strip - MSTBW 2,5/12-G-5,08 - 1735785

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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#### Base strip - MSTBVA 2,5/12-G-5,08 - 1755833

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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#### Base strip - MSTBA 2,5/12-G-5,08 - 1757349

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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#### Base strip - MSTBV 2,5/12-G-5,08 - 1758115

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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#### Base strip - MSTB 2,5/12-G-5,08 - 1759114

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 - MVSTBW 2,5/12-ST-5,08 - 1792854

### Accessories

#### Base strip - MDSTBV 2,5/12-G1-5,08 - 1762606



Header, 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, 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!

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#### Housing - MDSTB 2,5/12-G1-5,08 - 1762703



Header, 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, 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!

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#### Base strip - SMSTBA 2,5/12-G-5,08 - 1767478



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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#### Base strip - MSTBA 2,5/12-G-5,08-LA - 1768040



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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#### Base strip - SMSTB 2,5/12-G-5,08 - 1769560



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 - MVSTBW 2,5/12-ST-5,08 - 1792854

### Accessories

Base strip - MSTBV 2,5/12-GEH-5,08 - 1808560



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

Housing - MDSTBA 2,5/12-G-5,08 - 1842160



Header, 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!

Housing - MDSTBW 2,5/12-G-5,08 - 1842319



Header, 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!

Housing - MDSTB 2,5/12-G-5,08 - 1842610



Header, 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, Can be aligned! Mounting flange: Order No. 1736771, 1736768. 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!

Housing - MDSTBVA 2,5/12-G-5,08 - 1845439



Header, 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 - MVSTBW 2,5/12-ST-5,08 - 1792854

### Accessories

Housing - MDSTBV 2,5/12-G-5,08 - 1845581



Header, 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, Can be aligned! Mounting flange: Order No. 1836477, 1836480. 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 - EMSTBVA 2,5/12-G-5,08 - 1859616



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: Press-in technology

Base strip - EMSTBA 2,5/12-G-5,08 - 1880407



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: Press-in technology

Base strip - DFK-MSTBA 2,5/12-G-5,08 - 1898936



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

Base strip - DFK-MSTBVA 2,5/12-G-5,08 - 1899236



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 - MVSTBW 2,5/12-ST-5,08 - 1792854

### Accessories

#### Printed-circuit board connector - CC 2,5/12-G-5,08 P26THR - 1954579

Header, 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-G-5,08 P26THRR88 - 1954689

Header, 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 - CCA 2,5/12-G-5,08 P26THR - 1955028

Header, 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 - CCA 2,5/12-G-5,08 P26THRR88 - 1955138

Header, 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-G-5,08 P26THR - 1955510

Header, 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 - MVSTBW 2,5/12-ST-5,08 - 1792854

### Accessories

#### Printed-circuit board connector - CCV 2,5/12-G-5,08 P26THRR88 - 1955620

Header, 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 - CCVA 2,5/12-G-5,08 P26THR - 1955950

Header, 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 - CCVA 2,5/12-G-5,08 P26THRR88 - 1956069

Header, 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 - CCA 2,5/12-GL-5,08P26THR - 1959163

Header, 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.



#### Printed-circuit board connector - CCA 2,5/12-GR-5,08P26THR - 1959309

Header, 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.

