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Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Connection method: Screw connection, Color: green, Contact surface: Tin



The figure shows a 10-position version of the product

### **Product Features**

- The cable connection area for MSTBT 2,5/... is positioned lower than that of MSTB 2,5/...
- ☑ Plug-in direction parallel to the conductor axis



## Key commercial data

Packing unit	1 pc
GTIN	4 017918 040963
Weight per Piece (excluding packing)	10.47 GRM
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### **Dimensions**

Pitch	5.08 mm
Dimension a	25.4 mm

#### General

Range of articles	MSTBT 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



## Technical data

### General

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 mm²	
Maximum load current	12 A (with 2.5 mm² conductor cross section)	
Insulating material	PA	
Inflammability class according to UL 94	V0	
Internal cylindrical gage	A3	
Stripping length	7 mm	
Number of positions	6	
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 mm²		
Conductor cross section stranded min.	0.2 mm²		
Conductor cross section stranded max.	2.5 mm²		
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm²		
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm²		
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm²		
Conductor cross section stranded, with ferrule with plastic sleeve max.	1.5 mm²		
Conductor cross section AWG/kcmil min.	24		
Conductor cross section AWG/kcmil max	12		
2 conductors with same cross section, solid min.	0.2 mm²		
2 conductors with same cross section, solid max.	1 mm <sup>2</sup>		
2 conductors with same cross section, stranded min.	0.2 mm²		
2 conductors with same cross section, stranded max.	1.5 mm²		
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 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		



### Technical data

### Connection data

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

### 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

 $CSA \ / \ VDE \ Gutachten \ mit \ Fertigungs \"{u}berwachung \ / \ GOST \ / \ IECEE \ CB \ Scheme \ / \ GOST \ / \ UL \ Recognized \ / \ CCA \ / \ cULus \ Recognized$ 

Ex Approvals

Approvals submitted



# Approvals

### Approval details

CSA 40				
	В	D		
mm²/AWG/kcmil	28-12	28-12		
Nominal current IN	10 A	10 A		
Nominal voltage UN	300 V	300 V		

VDE Gutachten mit Fertigungsüberwachung			
mm²/AWG/kcmil	0.2-2.5		
Nominal current IN	12 A		
Nominal voltage UN	250 V		

0	E .		
COST	₹.		
10001	60		

IECEE CB Scheme CB.	
mm²/AWG/kcmil	0.2-2.5
Nominal current IN	12 A
Nominal voltage UN	250 V

535		
<b>⊙</b> 3.		
GOST		



## Approvals

UL Recognized <b>5</b> 1		
	В	D
mm²/AWG/kcmil	30-12	30-12
Nominal current IN	15 A	10 A
Nominal voltage UN	300 V	300 V

cUL Recognized • SU		
	В	D
mm²/AWG/kcmil	30-12	30-12
Nominal current IN	15 A	10 A
Nominal voltage UN	300 V	300 V

CCA	
mm²/AWG/kcmil	0.2-2.5
Nominal current IN	12 A
Nominal voltage UN	250 V

cULus Recognized CSU US

### 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



### Accessories

Cable housing - KGG-MSTB 2,5/ 2 - 1803934



Cable housing, Pitch: 0 mm, Number of positions: 2, Dimension a: 10 mm, Color: green

Cable housing - KGS-MSTB 2,5/8 - 1783779



Cable housing, Pitch: 0 mm, Number of positions: 8, Dimension a: 40 mm, Color: green

### 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

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

Screwdriver tools



### Accessories

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

#### Additional products

Feed-through terminal block - ZFKK 1,5-MSTBV-5,08 - 1873016



Feed-through terminal block, Connection method: Special and hybrid connection, MSTB plug entry, Cross section: 0.2 mm² - 2.5 mm², Width: 5.08 mm, Color: gray, Mounting: NS 35/7,5, NS 35/15 / Ex data new / /

Double-level terminal block - UKK 3-MSTB-5,08-PE - 1876615



Double-level terminal block, Nominal current: 12 A, Nominal voltage: 320 V, Cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, Mounting type: NS 35/7,5, NS 35/15, NS 32, Number of positions: 1, Pitch: 5.08 mm, Width: 5.08, Color: green-yellow

Double-level terminal block - UKK 3-MSTB-5,08 - 2770888



Double-level modular terminal block with COMBICON plug-in zone, nominal current: 12 A, nominal voltage: 250 V, cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, mounting type: NS 35/7.5, NS 35/15, NS 32, pitch: 5.08 mm, width: 5.08, color: gray

Base strip - MSTBO 2,5/ 6-GR-5,08 - 1847149



Header, Nominal current: 8 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering



### Accessories

Base strip - A-MSTBVA 2,5/ 6-G-5,08 - 1872509



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: DIN rail

Printed-circuit board connector - IC 2,5/6-ST-5,08 - 1786213



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

Base strip - MSTBW 2,5/ 6-G-5,08 - 1735840



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering



Base strip - MSTBVA 2,5/ 6-G-5,08 - 1755778



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering

Base strip - MSTBV 2,5/ 6-G-5,08 - 1758050

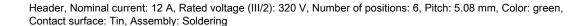


Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering



### Accessories

Base strip - MSTB 2,5/ 6-G-5,08 - 1759059





#### Base strip - MSTBA 2,5/6-G-5,08 THT - 1902783



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Assembly: SMD/THT/THR, User information and design recommendations for through hole reflow technology can be found under "Downloads"

### Base strip - MSTBVA 2,5/ 6-G-5,08 THT - 1902851



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: black, Contact surface: Tin, Assembly: SMD/THT/THR, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Base strip - DFK-MSTBVA 2,5/ 6-G-5,08 - 1899171



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering

### Base strip - MDSTBVA 2,5/ 6-G-5,08 - 1845374



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: 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!



### Accessories

Base strip - MDSTBA 2,5/ 6-G-5,08 - 1842102



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: 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 - EMSTBA 2,5/ 6-G-5,08 - 1880342

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Press-in



Base strip - EMSTBVA 2,5/6-G-5,08 - 1859551



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Press-in

Printed-circuit board connector - FKIC 2,5/6-ST-5,08 - 1873391



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Connection method: Spring-cage connection, Color: green, Contact surface: Tin

Base strip - MSTBA 2,5/ 6-G-5,08-LA - 1770986



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering



### Accessories

Base strip - MSTBA 2,5/ 6-G-5,08 - 1757284

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering



Base strip - MSTB 2,5/ 6-G-5,08-LA - 1770753



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering

Base strip - MDSTBV 2,5/ 6-G1-5,08 - 1762541



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 6, 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/ 6-G1-5,08 - 1762415



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 6, 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/ 6-G-5,08 - 1767410

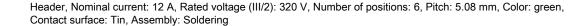


Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Assembly: Soldering



### Accessories

Base strip - SMSTB 2,5/ 6-G-5,08 - 1769502





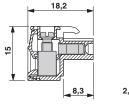
Printed-circuit board connector - ICC 2,5/6-STZ-5,08 - 1823888

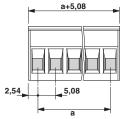


Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 6, Pitch: 5.08 mm, Connection method: Crimp connection, Color: green, Corresponding male crimp contacts with current [A] and conductor cross section range [mm²] data: 10A/ICC-MT 0,5-1,0 (3190577); 10A/ICC-MT 0,5-1,0 BA (3190603); 12A/ICC-MT 1,5-2,5 (3190580); 12A/ICC-MT 1,5-2,5 BA (3190593). BA = Bandkontakte

## Drawings

### Dimensioned drawing





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