

# Printed-circuit board connector - MSTBP 2,5/ 3-ST BU - 1945601

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PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, connection method: Screw connection with tension sleeve, color: blue, 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
- ✓ Quick and convenient testing using integrated test option
- ✓ Allows connection of two conductors



## Key Commercial Data

Packing unit	1
GTIN	 4 017918 858759
GTIN	4017918858759
Custom tariff number	85366990

## Technical data

### Dimensions

Length [ l ]	21.3 mm
Width [ w ]	15 mm
Height [ h ]	15 mm
Pitch	5 mm
Dimension a	10 mm

### General

Range of articles	MSTBP 2,5/..-ST
Number of positions	3
Connection method	Screw connection with tension sleeve
Insulating material group	I

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## Technical data

### General

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>
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

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## Technical data

### Connection data

Maximum AWG according to UL/CUL	12
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### 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"

## 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

# Printed-circuit board connector - MSTBP 2,5/ 3-ST BU - 1945601

## Approvals

Approvals

CSA / IECCEB CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized

Ex Approvals

### Approval details

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	13631
		D	B
Nominal voltage UN		300 V	300 V
Nominal current IN		10 A	10 A
mm <sup>2</sup> /AWG/kcmil		28-12	28-12

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	
mm <sup>2</sup> /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	
mm <sup>2</sup> /AWG/kcmil		0.2-2.5	

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		300 V	300 V

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## Approvals

	D	B
Nominal current I <sub>N</sub>	10 A	15 A
mm <sup>2</sup> /AWG/kcmil	30-12	30-12

## Accessories

### Accessories

#### Insulating sleeve

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



#### Test plug terminal block

Reducing plug - RPS - 0201647



Reducing plug, color: gray

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, color: gray

## Additional products

## Printed-circuit board connector - MSTBP 2,5/ 3-ST BU - 1945601

### Accessories

#### Feed-through header - DFK-MSTB 2,5/ 3-G - 0707112



Feed-through header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, connection method: Solder/Slip-on connection, color: green, contact surface: Tin, mounting: Direct mounting, accessory order no. 5030172 can only be used in conjunction with MSTB 2,5/...ST and MSTBT 2,5/...ST.

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#### Feed-through header - MSTBW 2,5/ 3-G - 1736108



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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#### Printed-circuit board connector - MSTBVA 2,5/ 3-G - 1755529



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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#### Feed-through header - MSTBV 2,5/ 3-G - 1753453



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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#### Feed-through header - MSTB 2,5/ 3-G - 1754452



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - MSTBP 2,5/ 3-ST BU - 1945601

### Accessories

#### Feed-through header - MDSTBVA 2,5/ 3-G - 1845798



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 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 - MDSTBA 2,5/ 3-G - 1846522



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 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 - EMSTBA 2,5/ 3-G - 1899854



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Press-in technology

#### Feed-through header - EMSTBVA 2,5/ 3-G - 1914865



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Press-in technology

#### Feed-through header - MSTBA 2,5/ 3-G-LA - 1770494



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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### Accessories

#### Printed-circuit board connector - MSTBA 2,5/ 3-G - 1757488

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Feed-through header - MSTB 2,5/ 3-G-LA - 1768192

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Feed-through header - MDSTBW 2,5/ 3-G - 1802427

PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 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/ 3-G - 1763045

PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 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!



#### Feed-through header - MDSTBV 2,5/ 3-G1 - 1736726

PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 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!





## Printed-circuit board connector - MSTBP 2,5/ 3-ST BU - 1945601

### Accessories

#### Feed-through header - MDSTB 2,5/ 3-G - 1762059



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering, Can be aligned! Mounting flange: Order no. 1736771, 1736768. In combination with MVSTB or FKCV plugs, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plugs is not possible!

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#### Feed-through header - MDSTB 2,5/ 3-G1 - 1736687



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 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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#### Feed-through header - SMSTBA 2,5/ 3-G - 1769816



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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#### Printed-circuit board connector - SMSTB 2,5/ 3-G - 1769243



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 3, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering