

# Printed-circuit board connector - MSTB 2,5/ 8-ST - 1754562

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PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 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
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors



## Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 028732
GTIN	4017918028732
Weight per Piece (excluding packing)	13.020 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Length [ l ]	18.2 mm
Width [ w ]	40 mm
Height [ h ]	15 mm
Pitch	5 mm
Dimension a	35 mm

### General

Range of articles	MSTB 2,5/..-ST
Type of contact	Female connector

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## Technical data

### General

Number of positions	8
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>
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>

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## Technical data

### Connection data

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

### Standards and Regulations

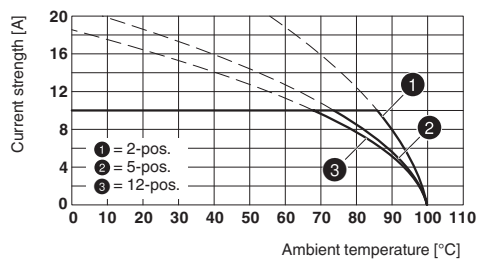
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

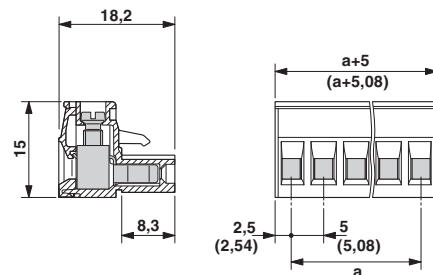
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Diagram

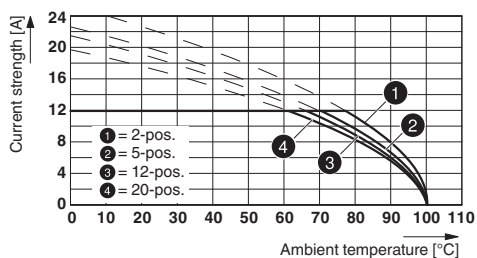


Dimensional drawing

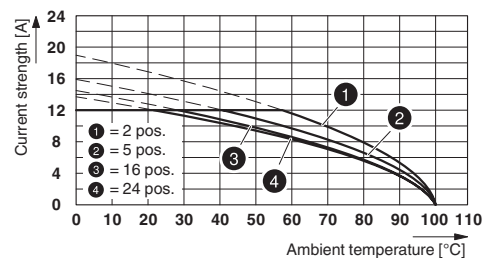


Type: MSTB 2,5/...-ST with MDSTBV 2,5/...-G

Diagram



Diagram



Type: MSTB 2,5/...-ST with MSTBW 2,5/...-G

Type: MSTB 2,5/...-ST with MSTBV 2,5/...-G

## Classifications

eCl@ss

eCl@ss 4.0	272607xx
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# Printed-circuit board connector - MSTB 2,5/ 8-ST - 1754562

## Classifications

### eCl@ss

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

#### Approvals

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

#### Ex Approvals

### Approval details

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	15 A	15 A	
mm <sup>2</sup> /AWG/kcmil	28-12	28-12	

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## Approvals

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	

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	

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	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	

EAC		B.01742
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## Accessories

### Accessories

#### Cable housing

Cable housing - KGG-MSTB 2,5/ 8 - 1803921



Cable housing, pitch: 0 mm, number of positions: 8, dimension a: 40 mm, color: green

## Printed-circuit board connector - MSTB 2,5/ 8-ST - 1754562

### Accessories

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



Cable housing, pitch: 0 mm, number of positions: 8, dimension a: 40 mm, color: green

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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 5/3,8:FORTL.ZAHLEN - 0804183



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 mm, lettering field size: 5 x 3.8 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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### Additional products

Feed-through header - MSTBW 2,5/ 8-G - 1736056



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - MSTB 2,5/ 8-ST - 1754562

### Accessories

#### Feed-through header - MSTBV 2,5/ 8-G - 1753550

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Feed-through header - MSTB 2,5/ 8-G - 1754559

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Printed-circuit board connector - MSTBVA 2,5/ 8-G - 1755574

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Printed-circuit board connector - MSTBA 2,5/ 8-G - 1757527

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



#### Feed-through header - MDSTB 2,5/ 8-G1 - 1762758

PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 8, 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 - MSTB 2,5/ 8-ST - 1754562

### Accessories

#### Feed-through header - MDSTBV 2,5/ 8-G1 - 1762907



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 8, 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 - MSTB 2,5/ 8-G-LA - 1768244



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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#### Printed-circuit board connector - SMSTB 2,5/ 8-G - 1769298



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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#### Feed-through header - SMSTBA 2,5/ 8-G - 1769861



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering

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#### Feed-through header - MSTBA 2,5/ 8-G-LA - 1770546



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Wave soldering



## Printed-circuit board connector - MSTB 2,5/ 8-ST - 1754562

### Accessories

#### Feed-through header - MDSTBVA 2,5/ 8-G - 1845840



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 8, 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!

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#### Feed-through header - MDSTBV 2,5/ 8-G - 1845992



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 8, 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!

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#### Feed-through header - MDSTB 2,5/ 8-G - 1846425



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 8, 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 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 - MDSTBA 2,5/ 8-G - 1846577



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 8, 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!

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#### Feed-through header - MDSTBW 2,5/ 8-G - 1846878



PCB headers, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 8, 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!

## Printed-circuit board connector - MSTB 2,5/ 8-ST - 1754562

### Accessories

Feed-through header - EMSTBA 2,5/ 8-G - 1899906

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Press-in technology



Feed-through header - EMSTBVA 2,5/ 8-G - 1914917

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: green, contact surface: Tin, mounting: Press-in technology



Feed-through header - MSTBA 2,5/ 8-G THT - 1927551



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

Feed-through header - MSTBV 2,5/ 8-G THT - 1964006



PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 8, pitch: 5 mm, color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"