

## Printed-circuit board connector - SMSTB 2,5/19-ST-5,08 - 1850589

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Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, 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



### Key Commercial Data

Packing unit	1 STK
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### Environmental Product Compliance

China RoHS	Hazardous substances above threshold values;
	Environmentally Friendly Use Period = 50;
	For details go to tab "Downloads", Category "Manufacturer's declaration"

#### Dimensions

Width	96.52 mm
Pitch	5.08 mm
Dimension a	91.44 mm

#### General

Range of articles	SMSTB 2,5/..-ST
Type of contact	Female connector
Number of positions	19
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 $I_N$	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>

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## Technical data

### Connection data

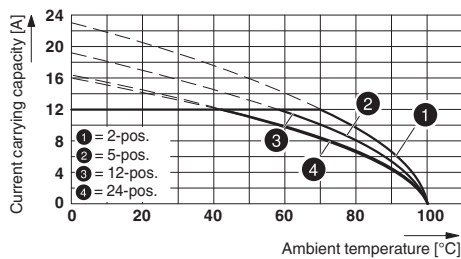
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm <sup>2</sup>
Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	12

### Standards and Regulations

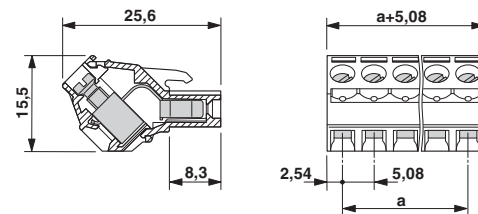
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

## Drawings

Diagram



Dimensional drawing



Type: SMSTB 2,5/...-ST(-5,08) with SMSTBA 2,5/...-G(-5,08)

## 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

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## Classifications

### ETIM

ETIM 5.0	EC002638
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### UNSPSC

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

## Approvals


### Approvals

#### Approvals

CSA / EAC / cULus Recognized / EAC

#### Ex Approvals

### Approval details

CSA  <a href="http://www.csagroup.org/us/en/services/testing-and-certification/certified-product-listing-13631">http://www.csagroup.org/us/en/services/testing-and-certification/certified-product-listing-13631</a>		
	B	D
mm <sup>2</sup> /AWG/kcmil	28-12	28-12
Nominal current IN	15 A	10 A
Nominal voltage UN	300 V	300 V

EAC EAC-Zulassung
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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		
	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

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## Approvals

EAC B.01742

## Accessories

### Accessories

#### 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

## Additional products

Base strip - MSTBW 2,5/19-G-5,08 - 1735714



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Base strip - MSTBVA 2,5/19-G-5,08 - 1755901



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Base strip - MSTBA 2,5/19-G-5,08 - 1757417



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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### Accessories

#### Base strip - MSTBV 2,5/19-G-5,08 - 1758186



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - MSTB 2,5/19-G-5,08 - 1759185



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

#### Base strip - MDSTB 2,5/19-G1-5,08 - 1762538



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 19, 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!

#### Base strip - MDSTBV 2,5/19-G1-5,08 - 1762677



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 19, 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!

#### Base strip - SMSTBA 2,5/19-G-5,08 - 1767546



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

## Printed-circuit board connector - SMSTB 2,5/19-ST-5,08 - 1850589

### Accessories

Base strip - MSTBA 2,5/19-G-5,08-LA - 1768118



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - SMSTB 2,5/19-G-5,08 - 1769638



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - MSTBV 2,5/19-GEH-5,08 - 1808638



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

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Base strip - EMSTBA 2,5/19-G-5,08 - 1880478



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

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Base strip - EMSTBVA 2,5/19-G-5,08 - 1915903



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 19, Pitch: 5.08 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

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