

## Plug - SP 2,5/ 1-R BU - 3043080

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Plug, Connection method: Spring-cage connection, Number of positions: 1, Cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 28 - 12, Width: 5.2 mm, Height: 39 mm, Color: blue

Illustration shows versions of the SP 2,5/1-... connector in various colors

### Product Description

Connector element right, left housing with engagement pin, right closed with cover

### Product Features

- Cable housing can be snapped on to the plugs, see figure below
- The plug with spring-cage connection is assembled directly on site by snapping together single-position plug elements
- The ST-COMBI plugs for self-assembly provide solutions that users can implement themselves



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Minimum order quantity               | 50 pc    |
| Weight per Piece (excluding packing) | 3.5 g    |
| Custom tariff number                 | 85366990 |
| Country of origin                    | Poland   |

### Technical data

#### General

|                                        |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| Number of levels                       | 1                                                         |
| Number of connections                  | 1                                                         |
| Nominal cross section                  | 2.5 mm <sup>2</sup>                                       |
| Color                                  | blue                                                      |
| Insulating material                    | PA                                                        |
| Flammability rating according to UL 94 | V0                                                        |
| Maximum load current                   | 24 A (with a 2.5 mm <sup>2</sup> conductor cross section) |

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## Technical data

### General

|                                |                                                       |
|--------------------------------|-------------------------------------------------------|
| Rated surge voltage            | 6 kV                                                  |
| Degree of pollution            | 3                                                     |
| Overtoltage category           | III                                                   |
| Insulating material group      | I                                                     |
| Maximum load current           | 24 A (with 4 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub> | 24 A                                                  |
| Nominal voltage U <sub>N</sub> | 500 V                                                 |
| Open side panel                | No                                                    |

### Dimensions

|        |          |
|--------|----------|
| Width  | 5.2 mm   |
| Length | 15.8 mm  |
| Height | 39 mm    |
|        | 24.00 mm |
| Pitch  | 5.20 mm  |

### Connection data

|                                                                                         |                        |
|-----------------------------------------------------------------------------------------|------------------------|
| Connection method                                                                       | Spring-cage connection |
| Connection in acc. with standard                                                        | IEC 61984              |
| Conductor cross section solid min.                                                      | 0.08 mm <sup>2</sup>   |
| Conductor cross section solid max.                                                      | 4 mm <sup>2</sup>      |
| Conductor cross section AWG min.                                                        | 28                     |
| Conductor cross section AWG max.                                                        | 12                     |
| Conductor cross section flexible min.                                                   | 0.08 mm <sup>2</sup>   |
| Conductor cross section flexible max.                                                   | 2.5 mm <sup>2</sup>    |
| Min. AWG conductor cross section, flexible                                              | 28                     |
| Max. AWG conductor cross section, flexible                                              | 14                     |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.14 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.                 | 0.14 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 2.5 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm <sup>2</sup>    |
| Stripping length                                                                        | 8 mm ... 10 mm         |
| Internal cylindrical gage                                                               | A3                     |
| Connection method                                                                       | Plug connection        |

### Standards and Regulations

|                                  |     |
|----------------------------------|-----|
| Connection in acc. with standard | CSA |
|----------------------------------|-----|

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### Technical data

#### Standards and Regulations

|                                        |           |
|----------------------------------------|-----------|
|                                        | IEC 61984 |
| Flammability rating according to UL 94 | V0        |

### 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 | 27141151 |
| eCl@ss 7.0 | 27141151 |
| eCl@ss 8.0 | 27141151 |
| eCl@ss 9.0 | 27141151 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC002021 |
| ETIM 5.0 | EC002021 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211802 |
| UNSPSC 7.0901 | 39121402 |
| UNSPSC 11     | 39121402 |
| UNSPSC 12.01  | 39121402 |
| UNSPSC 13.2   | 39121402 |

### Approvals

#### Approvals

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#### Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / GL / BV / RS / IECCEB Scheme / CSA / EAC / cULus Recognized

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#### Ex Approvals

# Plug - SP 2,5/ 1-R BU - 3043080

## Approvals

Approvals submitted

### Approval details

|                                                                                       |       |       |
|---------------------------------------------------------------------------------------|-------|-------|
| CSA  |       |       |
|                                                                                       | B     | C     |
| mm²/AWG/kcmil                                                                         | 24-12 | 24-12 |
| Nominal current I <sub>N</sub>                                                        | 20 A  | 20 A  |
| Nominal voltage U <sub>N</sub>                                                        | 300 V | 300 V |

|                                                                                                  |       |       |       |
|--------------------------------------------------------------------------------------------------|-------|-------|-------|
| UL Recognized  |       |       |       |
|                                                                                                  | B     | C     | D     |
| mm²/AWG/kcmil                                                                                    | 28-12 | 28-12 | 28-12 |
| Nominal current I <sub>N</sub>                                                                   | 20 A  | 20 A  | 5 A   |
| Nominal voltage U <sub>N</sub>                                                                   | 300 V | 300 V | 600 V |

|                                                                                                                             |       |
|-----------------------------------------------------------------------------------------------------------------------------|-------|
| VDE Gutachten mit Fertigungsüberwachung  |       |
|                                                                                                                             |       |
| mm²/AWG/kcmil                                                                                                               | 0.2-4 |
| Nominal voltage U <sub>N</sub>                                                                                              | 500 V |

|                                                                                                    |       |       |       |
|----------------------------------------------------------------------------------------------------|-------|-------|-------|
| cUL Recognized  |       |       |       |
|                                                                                                    | B     | C     | D     |
| mm²/AWG/kcmil                                                                                      | 28-12 | 28-12 | 28-12 |
| Nominal current I <sub>N</sub>                                                                     | 20 A  | 20 A  | 5 A   |
| Nominal voltage U <sub>N</sub>                                                                     | 300 V | 300 V | 600 V |

|    |
|----|
| LR |
|----|

## Plug - SP 2,5/ 1-R BU - 3043080

### Approvals

GL

BV

RS

IECEE CB Scheme 

mm<sup>2</sup>/AWG/kcmil

0.2-4

Nominal voltage UN

500 V

CSA 

EAC

cULus Recognized 

### Accessories

#### Accessories

##### Labeled terminal marker

Zack Marker strip, flat - ZBF 5 CUS - 0825025



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

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### Accessories

Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 2 - 20, 22 - 40, etc. up to 82 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Marker for terminal blocks - UC-TMF 5 CUS - 0824638



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.6 x 5.1 mm

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### Accessories

Marker for terminal blocks - UCT-TMF 5 CUS - 0829658



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.4 x 4.7 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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Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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### Mounting material

Latching - PR - 3040559



Latching, Number of positions: 1, Color: orange

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Latching - PR/2 - 3040630



Latching, Number of positions: 2, Color: orange

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### Accessories

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#### Latching - PRT/2 - 3040631



Latching, can only be released using a screwdriver, Number of positions: 2, Color: orange

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#### Latching - PRZ - 3040614



Latching, Length: 3 mm, Width: 5.2 mm, Number of positions: 2, Color: orange

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### Screwdriver tools

#### Screwdriver - ST-BW - 1207608



Actuation tool, for all 2.5 mm<sup>2</sup> - 4.0 mm<sup>2</sup> spring-cages

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### Shield connection

#### Shield connection clip - PSH 3- 6 - 3040591



Shield connection clip, Color: black

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### Accessories

Shield connection clip - PSH 5-10 - 3040601



Shield connection clip, Color: black

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### Strain relief

Strain relief - PZ/2 - 3040627



Strain relief, Number of positions: 2, Color: black

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Strain relief - PZ/4 - 3040643



Strain relief, Number of positions: 4, Color: black

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### Terminal marking

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm

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Marker for terminal blocks - UC-TMF 5 - 0818153



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.6 x 5.1 mm

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### Accessories

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Marker for terminal blocks - UCT-TMF 5 - 0828744



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into flat marker groove, for terminal block width: 5.2 mm, Lettering field: 4.4 x 4.7 mm

### Drawings

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#### Diagram

Derating  
curve  
for  
ST  
2,5/  
1P/IN-  
5P/1P,  
3,5/  
2P-  
5P/IN-  
2,5/  
1P  
1P/IN/  
1P  
and  
plug  
versions  
SPg. .  
versions  
SP... .

#### Diagram

Derating  
curve  
for  
STTB  
2,5/  
2P/ATTRO/2P,  
STTB  
2,5/  
2P/ATTRO/4P  
and  
for  
the  
plug  
plug

## Plug - SP 2,5/ 1-R BU - 3043080

versions  
SP... .

Diagram

Circuit diagram



Derating  
curve  
for  
ST  
2,5-4L/1P,  
ST  
2,5-4L/2P  
and  
for  
all  
plug  
versions  
SP... .

Schematic diagram

