

## Plug - SPDB 2,5/ 8 - 3040478

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Plug, Connection method: Spring-cage connection, Number of positions: 8, Cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 28 - 12, Width: 41.6 mm, Height: 39 mm, Color: gray

The illustration shows a 6-position version

### Product Features

- ✓ Plug with bridging option, for use with basic terminal blocks
- ✓ Tested for railway applications



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 1       |
| Weight per Piece (excluding packing) | 39.79 GRM |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Poland    |

### Technical data

#### General

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| Number of levels                        | 1                                                       |
| Number of connections                   | 2                                                       |
| Color                                   | gray                                                    |
| Insulating material                     | PA                                                      |
| Inflammability class according to UL 94 | V0                                                      |
| Area of application                     | Railway industry                                        |
|                                         | Mechanical engineering                                  |
|                                         | Plant engineering                                       |
| Maximum load current                    | 24 A (with 2.5 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage                     | 6 kV                                                    |
| Pollution degree                        | 3                                                       |

## Plug - SPDB 2,5/ 8 - 3040478

### Technical data

#### General

|                                  |           |
|----------------------------------|-----------|
| Surge voltage category           | III       |
| Insulating material group        | I         |
| Connection in acc. with standard | IEC 61984 |
| Nominal current $I_N$            | 24 A      |
| Nominal voltage $U_N$            | 500 V     |
| Open side panel                  | nein      |
| Number of positions              | 8         |

#### Dimensions

|        |         |
|--------|---------|
| Width  | 41.6 mm |
| Length | 32.7 mm |
| Height | 39 mm   |

#### Connection data

|                                                                                         |                        |
|-----------------------------------------------------------------------------------------|------------------------|
| 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/kcmil min.                                                  | 28                     |
| Conductor cross section AWG/kcmil max.                                                  | 12                     |
| Conductor cross section stranded min.                                                   | 0.08 mm <sup>2</sup>   |
| Conductor cross section stranded max.                                                   | 2.5 mm <sup>2</sup>    |
| Min. AWG conductor cross section, stranded                                              | 28                     |
| Max. AWG conductor cross section, stranded                                              | 14                     |
| Conductor cross section stranded, with ferrule without plastic sleeve min.              | 0.14 mm <sup>2</sup>   |
| Conductor cross section stranded, with ferrule without plastic sleeve max.              | 2.5 mm <sup>2</sup>    |
| Conductor cross section stranded, with ferrule with plastic sleeve min.                 | 0.14 mm <sup>2</sup>   |
| Conductor cross section stranded, 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>    |
| Connection method                                                                       | Spring-cage connection |
| Stripping length                                                                        | 10 mm                  |
| Internal cylindrical gage                                                               | A3                     |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |

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### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27260701 |
| eCl@ss 6.0 | 27141151 |
| eCl@ss 7.0 | 27141151 |
| eCl@ss 8.0 | 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

##### Approvals

CSA / UL Recognized / cUL Recognized / GOST / LR / GL / BV / DNV / RS / GOST / CSA / cULus Recognized

##### Ex Approvals

##### Approvals submitted

#### Approval details

|                                                                                         |       |       |
|-----------------------------------------------------------------------------------------|-------|-------|
| CSA  |       |       |
|                                                                                         | B     | C     |
| mm²/AWG/kcmil                                                                           | 24-12 | 24-12 |

## Plug - SPDB 2,5/ 8 - 3040478

### Approvals

|                                | B     | C     |
|--------------------------------|-------|-------|
| 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     |
|--------------------------------|-------|-------|-------|
| mm <sup>2</sup> /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 |

cUL Recognized 

|                                | B     | C     | D     |
|--------------------------------|-------|-------|-------|
| mm <sup>2</sup> /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 |

GOST 

LR

GL

BV

DNV

RS

GOST 

## Plug - SPDB 2,5/ 8 - 3040478

### Approvals

|                                                                                       |       |       |       |
|---------------------------------------------------------------------------------------|-------|-------|-------|
| CSA  |       |       |       |
|                                                                                       | B     | C     | D     |
| mm²/AWG/kcmil                                                                         | 24-12 | 24-12 | 24-12 |
| Nominal current I <sub>N</sub>                                                        | 20 A  | 20 A  | 5 A   |
| Nominal voltage U <sub>N</sub>                                                        | 300 V | 300 V | 600 V |

|                                                                                                    |  |  |  |
|----------------------------------------------------------------------------------------------------|--|--|--|
| cULus Recognized  |  |  |  |
|----------------------------------------------------------------------------------------------------|--|--|--|

### Accessories

#### Accessories

#### Bridge

Plug-in bridge - FBS 2-5 - 3030161



Plug-in bridge, Number of positions: 2, Color: red

Plug-in bridge - FBS 3-5 - 3030174



Plug-in bridge, Number of positions: 3, Color: red

Plug-in bridge - FBS 4-5 - 3030187



Plug-in bridge, Number of positions: 4, Color: red

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### Accessories

Plug-in bridge - FBS 5-5 - 3030190



Plug-in bridge, Number of positions: 5, Color: red

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Plug-in bridge - FBS 10-5 - 3030213



Plug-in bridge, Number of positions: 10, Color: red

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Plug-in bridge - FBS 20-5 - 3030226



Plug-in bridge, Number of positions: 20, Color: red

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### Flange

Flange cover - DFS-SPDB 2,5 - 3061457



Flange cover, Length: 35.8 mm, Width: 4.5 mm, Height: 24.7 mm, Color: gray

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### Insulating sleeve

Insulation stop sleeve - ISH 2,5/0,2 - 3002843



Insulation stop sleeve, Color: white

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### Accessories

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Insulation stop sleeve - ISH 2,5/0,5 - 3002856



Insulation stop sleeve, Color: gray

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Insulation stop sleeve - ISH 2,5/1,0 - 3002869



Insulation stop sleeve, Color: black

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### 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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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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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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### Accessories

#### 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

Strain relief - PDZ/2 - 3040562



Strain relief, Length: 3 mm, Width: 9.6 mm, Height: 23 mm, Number of positions: 2, Color: black

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Strain relief - PDZ/4 - 3040575



Strain relief, Length: 3 mm, Width: 19.9 mm, Height: 23 mm, Number of positions: 4, Color: black

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Latching - PR - 3040559



Latching, Number of positions: 1, Color: orange

## Plug - SPDB 2,5/ 8 - 3040478

### Accessories

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Latching - PR/2 - 3040630



Latching, 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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### Shield connection

Shield connection clamp - PSH 3- 6 - 3040591



Shield connection clamp, Color: black

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Shield connection clamp - PSH 5-10 - 3040601



Shield connection clamp, Color: black

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### Terminal marking

## Plug - SPDB 2,5/ 8 - 3040478

### Accessories

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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Marker for terminal blocks - UCT-TMF 5 - 0828744



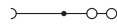
Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: THERMOMARK CARD PLUS, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into flat marker groove, For terminal block width: 5.2 mm, Lettering field: 4.4 x 4.7 mm

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### Drawings

## Plug - SPDB 2,5/ 8 - 3040478

Circuit diagram



Diagram



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

## Plug - SPDB 2,5/ 8 - 3040478

Diagram



Derating curve for ST 2,5-TWIN-MT/1P, ST 2,5-TWIN-TG/1P and for all plug versions SP...

## Plug - SPDB 2,5/ 8 - 3040478

Diagram



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

## Plug - SPDB 2,5/ 8 - 3040478

Diagram



Derating curve for STTB 2,5/ 2P, STTB 2,5/ 2P-PV and for all plug versions SP...

## Plug - SPDB 2,5/ 8 - 3040478

Diagram



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

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