

## Plug - SPV 2,5/ 1-L BU - 3041037

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Plug, number of positions: 1, connection method: Spring-cage connection, cross section: 0.08 mm<sup>2</sup>- 4 mm<sup>2</sup>, AWG: 28 - 12, nominal current: 24 A, nom. voltage: 500 V, width: 5.2 mm, color: blue

### Product Description

Connector element left, left housing without engagement pin, right opened without cover

### Your advantages

- ✓ 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
- ✓ Tested for railway applications



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 50 pc                                                                                                   |
| GTIN         | <br>4 046356 055000 |
| GTIN         | 4046356055000                                                                                           |

### Technical data

#### General

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Number of positions                             | 1                   |
| Nominal cross section                           | 2.5 mm <sup>2</sup> |
| Color                                           | blue                |
| Insulating material                             | PA                  |
| Flammability rating according to UL 94          | V0                  |
| Rated surge voltage                             | 6 kV                |
| Degree of pollution                             | 3                   |
| Overvoltage category                            | III                 |
| Insulating material group                       | I                   |
| Maximum power dissipation for nominal condition | 0.77 W              |

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## Technical data

### General

|                                                                         |                                                       |
|-------------------------------------------------------------------------|-------------------------------------------------------|
| 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                                                 |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C                                                |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C                                                |
| Static insulating material application in cold                          | -60 °C                                                |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed                                                |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed                                                |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg                                              |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed                                                |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3                                           |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3                                           |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3                                           |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3                                           |

### Dimensions

|        |         |
|--------|---------|
| Width  | 5.2 mm  |
| Length | 23.4 mm |
| Height | 34 mm   |
|        | 19 mm   |
| Pitch  | 5.2 mm  |

### Connection data

|                                                                            |                        |
|----------------------------------------------------------------------------|------------------------|
| Connection method                                                          | Spring-cage connection |
| Stripping length                                                           | 8 mm ... 10 mm         |
| 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>    |
| Internal cylindrical gage                                                  | A3                     |

### Standards and Regulations

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

## Plug - SPV 2,5/ 1-L BU - 3041037

### Technical data

#### Standards and Regulations

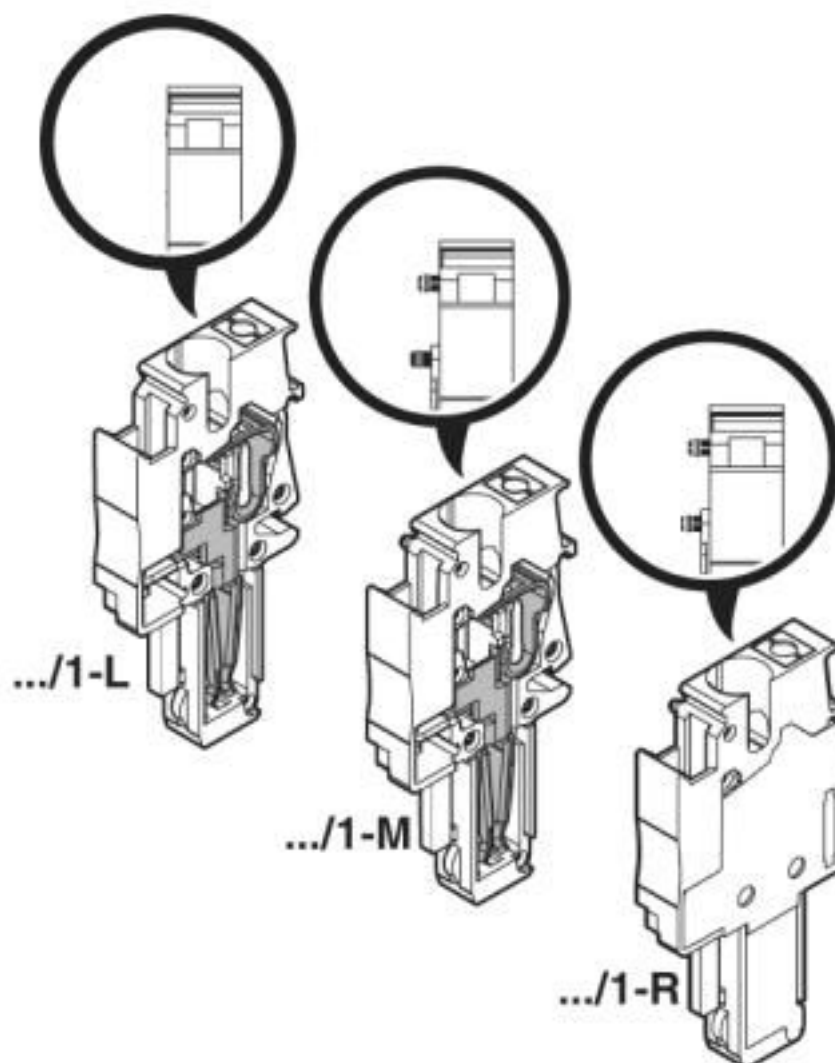
|                                        |           |
|----------------------------------------|-----------|
|                                        | IEC 61984 |
| Flammability rating according to UL 94 | V0        |

#### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

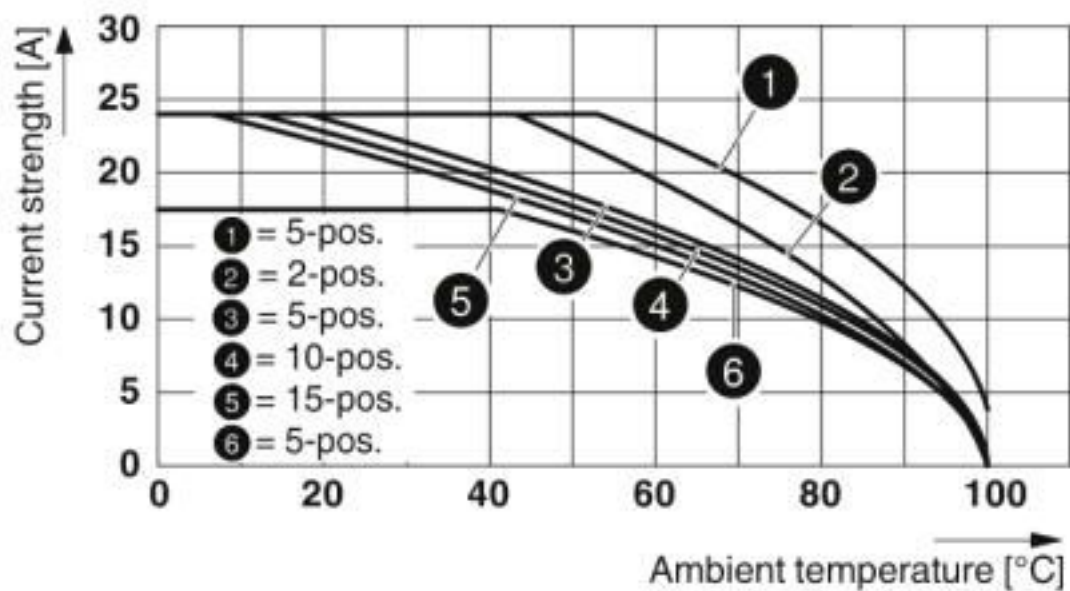
### Drawings

#### Schematic diagram



## Plug - SPV 2,5/ 1-L BU - 3041037

Diagram



Circuit diagram



## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141151 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27141100 |
| 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 |
| ETIM 6.0 | EC002021 |
| ETIM 7.0 | EC002021 |

## Plug - SPV 2,5/ 1-L BU - 3041037

### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211802 |
| UNSPSC 7.0901 | 39121402 |
| UNSPSC 11     | 39121402 |
| UNSPSC 12.01  | 39121402 |
| UNSPSC 13.2   | 39121402 |
| UNSPSC 18.0   | 39121402 |
| UNSPSC 19.0   | 39121402 |
| UNSPSC 20.0   | 39121402 |
| UNSPSC 21.0   | 39121402 |

### Approvals

#### Approvals

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UL Recognized / cUL Recognized / IECCEB Scheme / EAC / EAC / VDE Zeichengenehmigung / cULus Recognized

#### Ex Approvals

#### Approval details

| <div> <div>UL Recognized</div> <div></div> <div><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></div> <div>FILE E 60425</div> </div> |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|
|                                                                                                                                                                                                                                                                                                                               |       | B     | C     | D     |
| Nominal voltage UN                                                                                                                                                                                                                                                                                                            | 600 V | 300 V | 300 V | 600 V |
| Nominal current IN                                                                                                                                                                                                                                                                                                            | 20 A  | 20 A  | 20 A  | 5 A   |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                                                                                 | 26-12 | 26-12 | 26-12 | 26-12 |

| <div> <div>cUL Recognized</div> <div></div> <div><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></div> <div>FILE E 60425</div> </div> |       |       |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|
|                                                                                                                                                                                                                                                                                                                                |       | B     | C     | D     |
| Nominal voltage UN                                                                                                                                                                                                                                                                                                             | 600 V | 300 V | 300 V | 600 V |
| Nominal current IN                                                                                                                                                                                                                                                                                                             | 20 A  | 20 A  | 20 A  | 5 A   |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                                                                                  | 26-12 | 26-12 | 26-12 | 26-12 |

|                                                                                                                                                                                                                                        |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <div> <div>IECEE CB Scheme</div> <div></div> <div><a href="http://www.iecee.org/">http://www.iecee.org/</a></div> <div>DE1-62736/B1/B2</div> </div> |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|

## Plug - SPV 2,5/ 1-L BU - 3041037

### Approvals

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01742 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00511 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

|                        |                                                                                   |                                                                                                                                                                                                                |          |
|------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/<br/>VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40019518 |
| Nominal voltage UN     | 500 V                                                                             |                                                                                                                                                                                                                |          |
| mm²/AWG/kcmil          | 0.2-4                                                                             |                                                                                                                                                                                                                |          |

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

### Accessories

#### Accessories

#### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



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### Accessories

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



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Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



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Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



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Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



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Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



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### Mounting material

## Plug - SPV 2,5/ 1-L BU - 3041037

### Accessories

Latching - PRV/2 - 3041862



Latching, length: 15.8 mm, width: 10 mm, number of positions: 2, color: orange

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### Partition plate

Spacer plate - DP PS-5 - 3036725



Spacer plate, length: 22.4 mm, width: 5.2 mm, height: 29 mm, number of positions: 1, color: red

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### Screwdriver tools

Actuation tool - 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 clamp - PSH 3- 6 - 3040591



Shield connection clamp, color: black

Shield connection clamp - PSH 5-10 - 3040601



Shield connection clamp, color: black

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### Strain relief



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### Accessories

Strain relief - PZ/2 - 3040627



Strain relief, length: 48.7 mm, width: 9.3 mm, number of positions: 2, color: black

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Strain relief - PZ/4 - 3040643



Strain relief, length: 48.7 mm, width: 19.6 mm, number of positions: 4, color: black

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Test plug terminal block

Reducing plug - RPS - 0201647



Reducing plug, color: gray

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Test plugs - MPS-MT - 0201744



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

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Test plugs - PS-5 - 3030983



Test plugs, Modular test plug, color: red

## Plug - SPV 2,5/ 1-L BU - 3041037

### Accessories

Test plugs - PS-5/2,3MM RD - 3038723



Test plugs, color: red

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

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