

## Plug - UPBV 2,5/ 4 - 3045428

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Plug, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw connection, number of connections: 4, number of positions: 4, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 20.8 mm, height: 47 mm, color: gray

### Why buy this product

- Can be bridged with FBS ... standard bridges
- Large-surface labeling option
- Practical coding option
- The connected conductors can be led directly into the cable duct to save space

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| GTIN                                 | <br>4 046356 055635 |
| GTIN                                 | 4046356055635                                                                                           |
| Weight per Piece (excluding packing) | 20.700 g                                                                                                |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | Poland                                                                                                  |

### Technical data

#### General

|                       |                     |
|-----------------------|---------------------|
| Number of positions   | 4                   |
| Number of levels      | 1                   |
| Number of connections | 4                   |
| Potentials            | 1                   |
| Nominal cross section | 2.5 mm <sup>2</sup> |
| Color                 | gray                |

# Plug - UPBV 2,5/ 4 - 3045428

## Technical data

### General

|                                                                         |                                                       |
|-------------------------------------------------------------------------|-------------------------------------------------------|
| Insulating material                                                     | PA                                                    |
| Flammability rating according to UL 94                                  | V0                                                    |
| Maximum load current                                                    | 24 A (with 4 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage                                                     | 8 kV                                                  |
| Degree of pollution                                                     | 3                                                     |
| Overvoltage category                                                    | III                                                   |
| Insulating material group                                               | I                                                     |
| Maximum power dissipation for nominal condition                         | 0.77 W                                                |
| 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                                                |
| Behavior in fire for rail vehicles (DIN 5510-2)                         | Test passed                                           |
| Flame test method (DIN EN 60695-11-10)                                  | V0                                                    |
| Oxygen index (DIN EN ISO 4589-2)                                        | >32 %                                                 |
| NF F16-101, NF F10-102 Class I                                          | 2                                                     |
| NF F16-101, NF F10-102 Class F                                          | 2                                                     |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed                                                |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed                                                |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed                                                |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg                                              |
| 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  | 20.8 mm |
| Length | 20.5 mm |
| Height | 47 mm   |
|        | 32.2 mm |
| Pitch  | 5.2 mm  |

### Connection data

|                                  |                  |
|----------------------------------|------------------|
| Connection method                | Screw connection |
| Connection in acc. with standard | IEC 61984        |

## Plug - UPBV 2,5/ 4 - 3045428

### Technical data

#### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.                                                      | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.                                                        | 26                   |
| Conductor cross section AWG max.                                                        | 12                   |
| Conductor cross section flexible min.                                                   | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.                                                   | 4 mm <sup>2</sup>    |
| Min. AWG conductor cross section, flexible                                              | 26                   |
| Max. AWG conductor cross section, flexible                                              | 12                   |
| 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, solid min.                                        | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.                                        | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.14 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, 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 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 1.5 mm <sup>2</sup>  |
| Stripping length                                                                        | 9 mm                 |
| Internal cylindrical gage                                                               | A3                   |
| Screw thread                                                                            | M3                   |
| Tightening torque, min                                                                  | 0.5 Nm               |
| Tightening torque max                                                                   | 0.6 Nm               |

#### Standards and Regulations

|                                                        |                                                 |
|--------------------------------------------------------|-------------------------------------------------|
| Connection in acc. with standard                       | CUL                                             |
|                                                        | IEC 61984                                       |
| Flammability rating according to UL 94                 | V0                                              |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |

#### Environmental Product Compliance

# Plug - UPBV 2,5/ 4 - 3045428

## Technical data

### Environmental Product Compliance

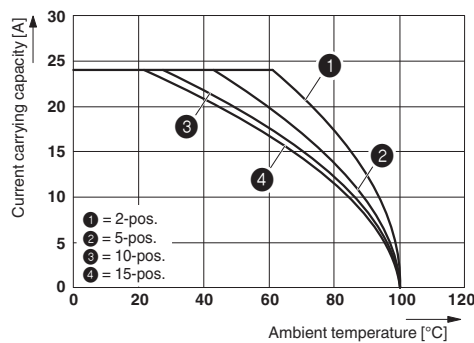
|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

### Circuit diagram



### Diagram



The figure shows the derating curve of the UT 2,5/1P... terminal block in connection with the UPBV 2,5 plug

## 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 | 27141120 |
| eCl@ss 7.0 | 27141120 |
| 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 |

# Plug - UPBV 2,5/ 4 - 3045428

## Classifications

### UNSPSC

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

## Approvals


### Approvals


#### Approvals


UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                                |       |                                                                                     |       |                                                                                                                                                       |  |              |  |
|--------------------------------|-------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|
| UL 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> |  | FILE E 60425 |  |
|                                |       | B                                                                                   | C     | D                                                                                                                                                     |  |              |  |
| mm <sup>2</sup> /AWG/kcmil     | 26-12 | 26-12                                                                               | 26-12 | 26-12                                                                                                                                                 |  |              |  |
| Nominal current I <sub>N</sub> | 20 A  | 20 A                                                                                | 20 A  | 5 A                                                                                                                                                   |  |              |  |
| Nominal voltage U <sub>N</sub> | 600 V | 300 V                                                                               | 300 V | 600 V                                                                                                                                                 |  |              |  |

|                                |       |                                                                                     |       |                                                                                                                                                       |  |              |  |
|--------------------------------|-------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|
| cUL 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> |  | FILE E 60425 |  |
|                                |       | B                                                                                   | C     | D                                                                                                                                                     |  |              |  |
| mm <sup>2</sup> /AWG/kcmil     | 26-12 | 26-12                                                                               | 26-12 | 26-12                                                                                                                                                 |  |              |  |
| Nominal current I <sub>N</sub> | 20 A  | 20 A                                                                                | 20 A  | 5 A                                                                                                                                                   |  |              |  |
| Nominal voltage U <sub>N</sub> | 600 V | 300 V                                                                               | 300 V | 600 V                                                                                                                                                 |  |              |  |

|     |                                                                                     |               |
|-----|-------------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-------------------------------------------------------------------------------------|---------------|

## Plug - UPBV 2,5/ 4 - 3045428

### Approvals

|     |  |                     |
|-----|--|---------------------|
| EAC |  | 7500651.22.01.00246 |
|-----|--|---------------------|

|                  |  |                                                                                                                                                       |
|------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> |
|------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|

### Accessories

#### Accessories

##### End cover

Flange cover - DF-UPBV 2,5/ 4 - 3060432



Flange cover, can be snapped onto the UPBV 2,5/... and UPBV 4/... plugs, length: 45.7 mm, width: 4.5 mm, height: 32 mm, color: gray

##### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



## Plug - UPBV 2,5/ 4 - 3045428

### Accessories

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



### Jumper

## Plug - UPBV 2,5/ 4 - 3045428

### Accessories

Plug-in bridge - FBS 2-5 - 3030161



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 9 mm, number of positions: 2, color: red

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Plug-in bridge - FBS 3-5 - 3030174



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 14.2 mm, number of positions: 3, color: red

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Plug-in bridge - FBS 4-5 - 3030187



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 19.4 mm, number of positions: 4, color: red

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Plug-in bridge - FBS 5-5 - 3030190



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 24.6 mm, number of positions: 5, color: red

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Plug-in bridge - FBS 10-5 - 3030213



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 50.6 mm, number of positions: 10, color: red

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## Plug - UPBV 2,5/ 4 - 3045428

### Accessories

Plug-in bridge - FBS 20-5 - 3030226



Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: red

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Plug-in bridge - FBS 50-5 - 3038930



Plug-in bridge, pitch: 5.2 mm, number of positions: 50, color: red

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Plug-in bridge - FBSR 2-5 - 3033702



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: red

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Plug-in bridge - FBSR 3-5 - 3001591



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, color: red

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Plug-in bridge - FBSR 4-5 - 3001592



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, color: red

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## Plug - UPBV 2,5/ 4 - 3045428

### Accessories

Plug-in bridge - FBSR 5-5 - 3001593



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, color: red

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Plug-in bridge - FBSR 10-5 - 3033710



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, color: red

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Plug-in bridge - FBS 2-5 BU - 3036877



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: blue

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Plug-in bridge - FBS 3-5 BU - 3036880



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, color: blue

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Plug-in bridge - FBS 4-5 BU - 3036893



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, color: blue

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## Plug - UPBV 2,5/ 4 - 3045428

### Accessories

Plug-in bridge - FBS 5-5 BU - 3036903



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, color: blue

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Plug-in bridge - FBS 10-5 BU - 3036916



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, color: blue

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Plug-in bridge - FBS 20-5 BU - 3036929



Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: blue

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Plug-in bridge - FBS 50-5 BU - 3032114



Plug-in bridge, pitch: 5.2 mm, number of positions: 50, color: blue

---

### Mounting material

Latching - UPRZ - 3045570



Latching, length: 39.8 mm, width: 10 mm, number of positions: 2, color: orange

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## Plug - UPBV 2,5/ 4 - 3045428

### Accessories

Latching - UPR/ 2 - 3045567



Latching, length: 39.8 mm, width: 10 mm, number of positions: 2, color: orange

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Strain relief - UPZ/ 2 - 3045554



Strain relief, length: 36.7 mm, width: 9.3 mm, number of positions: 2, color: black

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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

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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### Shield connection

## Plug - UPBV 2,5/ 4 - 3045428

### Accessories

Shield connection clip - PSH 3- 6 - 3040591



Shield connection clip, color: black

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Shield connection clip - PSH 5-10 - 3040601



Shield connection clip, color: black

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Test plug terminal block

Test plugs - MPS-MT - 0201744



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

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Test plugs - PS-5 - 3030983



Test plugs, color: red

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



Test plugs, color: red

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## Plug - UPBV 2,5/ 4 - 3045428

### Accessories

Test socket

Test adapter - PAI-4-N GY - 3032871



4 mm test adapter, for terminal blocks with 5.2 mm, 6.2 mm and 8.2 mm pitch