

# FTRV 8 BU/BU - Marshalling panel



3270190

<https://www.phoenixcontact.com/us/products/3270190>

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Marshalling panel, without actuating push button, nom. voltage: 250 V, nominal current: 8 A, connection method: Push-in connection, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, color: blue, color of connection elements: blue

## Your advantages

- Tool-free wiring in a confined space thanks to compact size
- High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- Individual color assignment of cable and terminal point to ensure error-free, safe operation
- Blue version for using in intrinsically safe circuits in potentially explosive areas (type of protection Ex i)
- The 2.3 mm test pick-off enables testing between the conductors with commercially available test probes

## Commercial data

|                                      |                    |
|--------------------------------------|--------------------|
| Item number                          | 3270190            |
| Packing unit                         | 10 pc              |
| Minimum order quantity               | 1 pc               |
| Product key                          | BE6211             |
| Catalog page                         | Page 50 (C-1-2019) |
| GTIN                                 | 4046356796354      |
| Weight per piece (including packing) | 36.25 g            |
| Weight per piece (excluding packing) | 36.25 g            |
| Country of origin                    | PL                 |

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## Technical data

### Product properties

|                       |                      |
|-----------------------|----------------------|
| Product type          | Marshalling terminal |
| Number of positions   | 2                    |
| Number of connections | 32                   |
| Number of rows        | 8                    |
| Potentials            | 8                    |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
|----------------------|-----|

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 4 kV   |
| Maximum power dissipation for nominal condition | 0.56 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 4                   |
| Nominal cross section           | 1.5 mm <sup>2</sup> |

#### 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level

|                                                                   |                                                        |
|-------------------------------------------------------------------|--------------------------------------------------------|
| Stripping length                                                  | 8 mm ... 10 mm                                         |
| Connection in acc. with standard                                  | IEC 60947-7-1                                          |
| Conductor cross section rigid                                     | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>           |
| Cross section AWG                                                 | 26 ... 14 (converted acc. to IEC)                      |
| Conductor cross section flexible                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| Conductor cross section, flexible [AWG]                           | 26 ... 16 (converted acc. to IEC)                      |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>           |
| Nominal current                                                   | 8 A                                                    |
| Maximum load current                                              | 8 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                   | 250 V                                                  |
| Nominal cross section                                             | 1.5 mm <sup>2</sup>                                    |

#### 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level Connection cross sections directly pluggable

|                                                                   |                                              |
|-------------------------------------------------------------------|----------------------------------------------|
| Conductor cross section rigid                                     | 0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section, rigid [AWG]                              | 20 ... 14 (converted acc. to IEC)            |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |

### Dimensions

|       |        |
|-------|--------|
| Width | 8.3 mm |
|-------|--------|

### Material specifications

|       |      |
|-------|------|
| Color | blue |
|-------|------|

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|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| Color of connection elements                                            | blue        |
| Flammability rating according to UL 94                                  | V0          |
| Insulating material group                                               | I           |
| Insulating material                                                     | PA          |
| Static insulating material application in cold                          | -60 °C      |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C      |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C      |
| 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 |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg    |
| 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      |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## Environmental and real-life conditions

### Ambient conditions

|                                          |                                                                           |
|------------------------------------------|---------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)       |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly)           | -5 °C ... 70 °C                                                           |
| Ambient temperature (actuation)          | -5 °C ... 70 °C                                                           |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                             |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

## Drawings

Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC000897 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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## Accessories

### DP-PTRV 8 - Spacer plate

3270166

<https://www.phoenixcontact.com/us/products/3270166>



Spacer plate, depth: 86 mm, width: 8.3 mm, height: 100 mm, color: gray

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### CDC-PTRV - Retaining bracket

3270167

<https://www.phoenixcontact.com/us/products/3270167>



Retaining bracket, via four PTRV single modules, pitch: 8.3 mm, depth: 71.5 mm, width: 35.6 mm, height: 71.5 mm, color: gray

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## PT-IL - Mounting material

3208090

<https://www.phoenixcontact.com/us/products/3208090>

Operating decal for the push-in Technology



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## SZF 0-0,4X2,5 - Screwdriver

1204504

<https://www.phoenixcontact.com/us/products/1204504>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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<https://www.phoenixcontact.com/us/products/3270190>

## ST-BW 0 - Actuation tool

1200135

<https://www.phoenixcontact.com/us/products/1200135>

Actuation tool, for all 1.5 mm<sup>2</sup> spring cages from PT 1,5/S and FT 1,5/S



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## RPS - Reducing plug

0201647

<https://www.phoenixcontact.com/us/products/0201647>

Reducing plug, number of positions: 1, color: gray



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## ZB 8,3:UNBEDRUCKT - Zack marker strip

0803444

<https://www.phoenixcontact.com/us/products/0803444>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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## ZB 8,3,LGS:FORTL.ZAHLEN - Zack marker strip

0803480

<https://www.phoenixcontact.com/us/products/0803480>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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## ZB 8,3,QR:FORTL.ZAHLEN - Zack marker strip

0803479

<https://www.phoenixcontact.com/us/products/0803479>



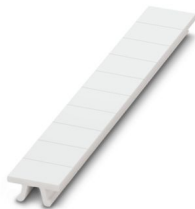
Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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## ZB 8,3 CUS - Zack marker strip

8191573

<https://www.phoenixcontact.com/us/products/8191573>



Zack marker strip, Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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## TM-PTRV 8,QR:1-8 - Marker for terminal blocks

0803468

<https://www.phoenixcontact.com/us/products/0803468>



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2.4 x 9.2 mm, Number of individual labels: 2

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## TM-PTRV 8,QR:8-1 - Marker for terminal blocks

0803470

<https://www.phoenixcontact.com/us/products/0803470>



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2.4 x 9.2 mm

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## TM-PTRV 8,QR:A-H - Marker for terminal blocks

0803471

<https://www.phoenixcontact.com/us/products/0803471>



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2.4 x 9.2 mm

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## TM-PTRV 8,QR:H-A - Marker for terminal blocks

0803473

<https://www.phoenixcontact.com/us/products/0803473>



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2.4 x 9.2 mm, Number of individual labels: 8

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<https://www.phoenixcontact.com/us/products/3270190>

## D-PTRV 8 WH - End cover

3270154

<https://www.phoenixcontact.com/us/products/3270154>



End cover, depth: 80.8 mm, width: 3.8 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 1-8 - End cover

3270155

<https://www.phoenixcontact.com/us/products/3270155>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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<https://www.phoenixcontact.com/us/products/3270190>

## D-PTRV 8 WH 1-8 LGS - End cover

3270240

<https://www.phoenixcontact.com/us/products/3270240>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 8-1 - End cover

3270242

<https://www.phoenixcontact.com/us/products/3270242>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 8-1 LGS - End cover

3270244

<https://www.phoenixcontact.com/us/products/3270244>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 1-16 - End cover

3270228

<https://www.phoenixcontact.com/us/products/3270228>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 1-16 LGS - End cover

3270229

<https://www.phoenixcontact.com/us/products/3270229>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 9-16 - End cover

3270211

<https://www.phoenixcontact.com/us/products/3270211>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

## FTRV 8 BU/BU - Marshalling panel

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### D-PTRV 8 WH 9-16 LGS - End cover

3270212

<https://www.phoenixcontact.com/us/products/3270212>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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### D-PTRV 8 WH 17-24 - End cover

3270213

<https://www.phoenixcontact.com/us/products/3270213>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

# FTRV 8 BU/BU - Marshalling panel



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<https://www.phoenixcontact.com/us/products/3270190>

## D-PTRV 8 WH 17-24 LGS - End cover

3270214

<https://www.phoenixcontact.com/us/products/3270214>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH 25-32 - End cover

3270215

<https://www.phoenixcontact.com/us/products/3270215>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

# FTRV 8 BU/BU - Marshalling panel



3270190

<https://www.phoenixcontact.com/us/products/3270190>

## D-PTRV 8 WH 25-32 LGS - End cover

3270216

<https://www.phoenixcontact.com/us/products/3270216>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH A-H - End cover

3270156

<https://www.phoenixcontact.com/us/products/3270156>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

# FTRV 8 BU/BU - Marshalling panel



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## D-PTRV 8 WH A-H LGS - End cover

3270241

<https://www.phoenixcontact.com/us/products/3270241>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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## D-PTRV 8 WH H-A - End cover

3270243

<https://www.phoenixcontact.com/us/products/3270243>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

## FTRV 8 BU/BU - Marshalling panel

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## D-PTRV 8 WH H-A LGS - End cover

3270245

<https://www.phoenixcontact.com/us/products/3270245>



End cover, depth: 80.8 mm, width: 2.2 mm, height: 100 mm, color: white

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## NS 35/ 7,5 PERF 2000MM - DIN rail perforated

0801733

<https://www.phoenixcontact.com/us/products/0801733>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

# FTRV 8 BU/BU - Marshalling panel



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<https://www.phoenixcontact.com/us/products/3270190>

## NS 35/ 7,5 UNPERF 2000MM - DIN rail, unperforated

0801681

<https://www.phoenixcontact.com/us/products/0801681>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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## NS 35/ 7,5 WH PERF 2000MM - DIN rail perforated

1204119

<https://www.phoenixcontact.com/us/products/1204119>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

# FTRV 8 BU/BU - Marshalling panel



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<https://www.phoenixcontact.com/us/products/3270190>

## NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

<https://www.phoenixcontact.com/us/products/1204122>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

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## NS 35/ 7,5 AL UNPERF 2000MM - DIN rail, unperforated

0801704

<https://www.phoenixcontact.com/us/products/0801704>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

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## NS 35/ 7,5 ZN PERF 2000MM - DIN rail perforated

1206421

<https://www.phoenixcontact.com/us/products/1206421>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

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## NS 35/ 7,5 ZN UNPERF 2000MM - DIN rail, unperforated

1206434

<https://www.phoenixcontact.com/us/products/1206434>



DIN rail, unperforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

# FTRV 8 BU/BU - Marshalling panel

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## NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

<https://www.phoenixcontact.com/us/products/0801762>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

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## NS 35/ 7,5 CAP - End cap

1206560

<https://www.phoenixcontact.com/us/products/1206560>

DIN rail end piece, for DIN rail NS 35/7.5



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## CLIPFIX 35 - End bracket

3022218

<https://www.phoenixcontact.com/us/products/3022218>

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray



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## CLIPFIX 35-5 - End bracket

3022276

<https://www.phoenixcontact.com/us/products/3022276>

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray



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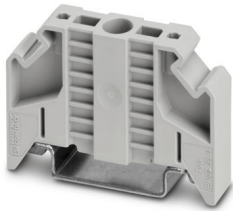


## E/NS 35 N - End bracket

0800886

<https://www.phoenixcontact.com/us/products/0800886>

End clamp, width: 9.5 mm, color: gray



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## E/UK - End bracket

1201442

<https://www.phoenixcontact.com/us/products/1201442>

End bracket, Mounting on a DIN rail NS 32 or NS 35, material: PA, color: gray



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## E/UK 1 - End bracket

1201413

<https://www.phoenixcontact.com/us/products/1201413>



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

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## MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/products/0201744>



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

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## MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



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## MPS-IH RD - Insulating sleeve

0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red



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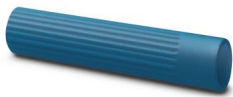
<https://www.phoenixcontact.com/us/products/3270190>

## MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



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## MPS-IH YE - Insulating sleeve

0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



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<https://www.phoenixcontact.com/us/products/3270190>



### MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



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### MPS-IH GY - Insulating sleeve

0201728

<https://www.phoenixcontact.com/us/products/0201728>

Insulating sleeve, color: gray



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## MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



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