

PTRV 4-PV /RD - Potential distributors



3270246

<https://www.phoenixcontact.com/us/products/3270246>

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Potential distributors, nom. voltage: 250 V, nominal current: 17.5 A, connection method: Push-in connection, 1st, 2nd, 3rd and 4th level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 2.5 mm², mounting: NS 35/7,5, NS 35/15, color: gray, color of connection elements: red

Your advantages

- Potential distributor for distributing potentials up to 17.5 A
- 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.
- The 2.3 mm test connection enables testing between the conductors with test pins commonly used in the industry

Commercial data

| | |
|--------------------------------------|--------------------|
| Item number | 3270246 |
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| Sales key | BE62 |
| Product key | BE6211 |
| Catalog page | Page 47 (C-1-2019) |
| GTIN | 4055626282510 |
| Weight per piece (including packing) | 17.15 g |
| Weight per piece (excluding packing) | 14.98 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|-----------------------|-----------------------|
| Product type | Potential distributor |
| Number of positions | 2 |
| Number of connections | 16 |
| Number of rows | 4 |
| Potentials | 1 |

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 ² |

1st, 2nd, 3rd and 4th level

| | |
|---|--|
| Stripping length | 8 mm ... 10 mm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section rigid | 0.14 mm ² ... 2.5 mm ² |
| Cross section AWG | 26 ... 14 (converted acc. to IEC) |
| Conductor cross section flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section, flexible [AWG] | 26 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm ² ... 1.5 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.14 mm ² ... 1.5 mm ² |
| Nominal current | 17.5 A |
| Maximum load current | 20 A (in case of a 2.5 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.) |
| Nominal voltage | 250 V |
| Nominal cross section | 1.5 mm ² |

1st, 2nd, 3rd and 4th level Connection cross sections directly pluggable

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

Dimensions

| | |
|--------|--------|
| Width | 8.3 mm |
| Height | 64 mm |

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| | |
|--------------------|---------|
| Depth on NS 35/7,5 | 55.5 mm |
| Depth on NS 35/15 | 63 mm |

Material specifications

| | |
|---|-------------|
| Color | gray |
| Color of connection elements | red |
| 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)) | 125 °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) | 27,5 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 |

Electrical tests

Surge voltage test

| | |
|-----------------------|-------------|
| Test voltage setpoint | 4.8 kV |
| Result | Test passed |

Temperature-rise test

| | |
|--|-------------------------------------|
| Requirement temperature-rise test | Increase in temperature \leq 45 K |
| Result | Test passed |
| Short-time withstand current 1.5 mm ² | 0.18 kA |
| Short-time withstand current 2.5 mm ² | 0.3 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 1.5 kV |
| Result | Test passed |

Mechanical properties

Mechanical data

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

Mechanical tests

Mechanical strength

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| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

Attachment on the carrier

| | |
|-------------------------|-------------|
| DIN rail/fixing support | NS 35 |
| Test force setpoint | 1 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|--------------------------------|-------------------------------|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross section/weight | 0.14 mm ² / 0.2 kg |
| | 1.5 mm ² / 0.4 kg |
| | 2.5 mm ² / 0.7 kg |
| Result | Test passed |

Environmental and real-life conditions

Aging

| | |
|--------------------|-------------|
| Temperature cycles | 192 |
| Result | Test passed |

Needle-flame test

| | |
|------------------|-------------|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|------------------------|--|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Service life test category 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | 6.12 (m/s ²) ² /Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Result | Test passed |

Ambient conditions

| | |
|---------------------------------|---|
| Ambient temperature (operation) | -60 °C ... 105 °C (max. short-term operating temperature RTI Elec.) |
|---------------------------------|---|

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| | |
|--|---|
| 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 |

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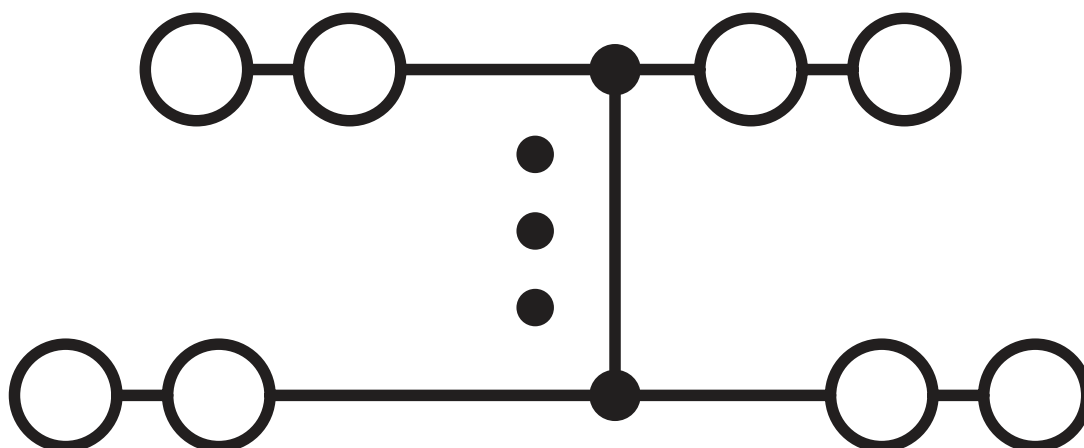


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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3270246>

| |
|---------------------------------------|
| DNV Approval ID: TAE000016Y |
|---------------------------------------|

| | | | | |
|----------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| CSA Approval ID: 13631 | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Use group B | 300 V | 10 A | 26 - 14 | - |
| Use group D | 300 V | 10 A | 26 - 14 | - |

| | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| IECEE CB Scheme Approval ID: NL-58817 | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 250 V | 17.5 A | - | - |

| |
|---|
| EAC Approval ID: RU C-DE.AI30.B.01102 |
|---|

| |
|--|
| cULus Recognized Approval ID: E60425 |
|--|

| | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| KEMA-KEUR Approval ID: 71-102890 | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Only flexible conductors | 250 V | 17.5 A | - | 0.14 - 1.5 |
| Only rigid conductors | 250 V | 17.5 A | - | 0.14 - 2.5 |

| |
|--|
| cULus Recognized Approval ID: E60425 |
|--|

| |
|---|
| EAC Approval ID: RU C-DE.BL08.B.00682 |
|---|

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EAC

Approval ID: B.01687



cULus Recognized

Approval ID: E60425



cULus Recognized

Approval ID: E60425

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250105 |

ETIM

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

UNSPSC

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

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Environmental product compliance

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

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Accessories

DP-PTRV 4 - Spacer plate

3270163

<https://www.phoenixcontact.com/us/products/3270163>



Spacer plate, length: 63.6 mm, width: 8.3 mm, height: 63.6 mm, color: gray

CDC-PTRV - Retaining bracket

3270167

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



Retaining bracket, via four PTRV single modules, pitch: 8.3 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



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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ST-BW 0 - Actuation tool

1200135

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



Actuation tool, for all 1.5 mm² spring cages from PT 1,5/S and FT 1,5/S

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

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

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 4,QR:1-4 - Marker for terminal blocks

0803464

<https://www.phoenixcontact.com/us/products/0803464>



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 4 mm, lettering field size: 2.4 x 9.2 mm

TM-PTRV 4,QR:4-1 - Marker for terminal blocks

0803465

<https://www.phoenixcontact.com/us/products/0803465>



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 4 mm, lettering field size: 2.4 x 9.2 mm

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TM-PTRV 4,QR:A-D - Marker for terminal blocks

0803466

<https://www.phoenixcontact.com/us/products/0803466>



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 4 mm, lettering field size: 2.4 x 9.2 mm

TM-PTRV 4,QR:D-A - Marker for terminal blocks

0803467

<https://www.phoenixcontact.com/us/products/0803467>



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 4 mm, lettering field size: 2.4 x 9.2 mm

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D-PTRV 4 WH - End cover

3270151

<https://www.phoenixcontact.com/us/products/3270151>

End cover, length: 63.6 mm, width: 3.8 mm, height: 63.6 mm, color: white



D-PTRV 4 WH 1-4 - End cover

3270152

<https://www.phoenixcontact.com/us/products/3270152>

End cover, length: 63.6 mm, width: 2.2 mm, height: 63.6 mm, color: white



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3270246

<https://www.phoenixcontact.com/us/products/3270246>

D-PTRV 4 WH 1-4 LGS - End cover

3270234

<https://www.phoenixcontact.com/us/products/3270234>



End cover, length: 63.6 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH 4-1 - End cover

3270236

<https://www.phoenixcontact.com/us/products/3270236>



End cover, length: 63.6 mm, width: 2.2 mm, height: 63.6 mm, color: white

PTRV 4-PV /RD - Potential distributors



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D-PTRV 4 WH 4-1 LGS - End cover

3270238

<https://www.phoenixcontact.com/us/products/3270238>



End cover, length: 63.6 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH A-D - End cover

3270153

<https://www.phoenixcontact.com/us/products/3270153>



End cover, length: 63.6 mm, width: 2.2 mm, height: 63.6 mm, color: white

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D-PTRV 4 WH A-D LGS - End cover

3270235

<https://www.phoenixcontact.com/us/products/3270235>



End cover, length: 63.6 mm, width: 2.2 mm, height: 63.6 mm, color: white

D-PTRV 4 WH D-A - End cover

3270237

<https://www.phoenixcontact.com/us/products/3270237>



End cover, length: 63.6 mm, width: 2.2 mm, height: 63.6 mm, color: white

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D-PTRV 4 WH D-A LGS - End cover

3270239

<https://www.phoenixcontact.com/us/products/3270239>



End cover, length: 63.6 mm, width: 2.2 mm, height: 63.6 mm, color: white

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

0801733

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



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

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

0801681

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



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

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

1204119

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



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

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

1204122

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



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

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

0801704

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



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

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

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

1206434

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



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

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

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 clamp

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

CLIPFIX 35-5 - End clamp

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 clamp

0800886

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

End clamp, width: 9.5 mm, color: gray



E/UK - End clamp

1201442

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

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



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E/UK 1 - End clamp

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

MPS-MT - Test plugs

0201744

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



Test plugs, with solder connection up to 1 mm² 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



MPS-IH RD - Insulating sleeve

0201676

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Insulating sleeve, color: red



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MPS-IH BU - Insulating sleeve

0201689

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

Insulating sleeve, color: blue



MPS-IH YE - Insulating sleeve

0201692

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

Insulating sleeve, color: yellow



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MPS-IH GN - Insulating sleeve

0201702

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

Insulating sleeve, color: green



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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