

FTRVB 8-PV /BK - Potential distributors



3270209

<https://www.phoenixcontact.com/us/products/3270209>

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Potential distributors, without actuating push button, nom. voltage: 250 V, nominal current: 17.5 A, connection method: Push-in connection, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th 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: black

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.
- Bridgeable potential distributor

Commercial data

Item number	3270209
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	BE6211
Catalog page	Page 52 (C-1-2019)
GTIN	4055626118703
Weight per piece (including packing)	47.71 g
Weight per piece (excluding packing)	47.7 g
Country of origin	PL

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Technical data

Product properties

Product type	Potential distributor
Number of positions	2
Number of connections	32
Number of rows	8
Potentials	1

Insulation characteristics

Overvoltage category	III
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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, 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 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 (with 1.5 mm ² conductor cross section)
Maximum load current	24 A (per chamber with 2.5 mm ² conductor cross section)
Maximum total current	37 A (per potential distributor)
Nominal voltage	250 V
Nominal cross section	1.5 mm ²

1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th 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
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Material specifications

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Color	gray
Color of connection elements	black
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

Mechanical properties

Mechanical data

Open side panel	Yes
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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
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Mounting

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

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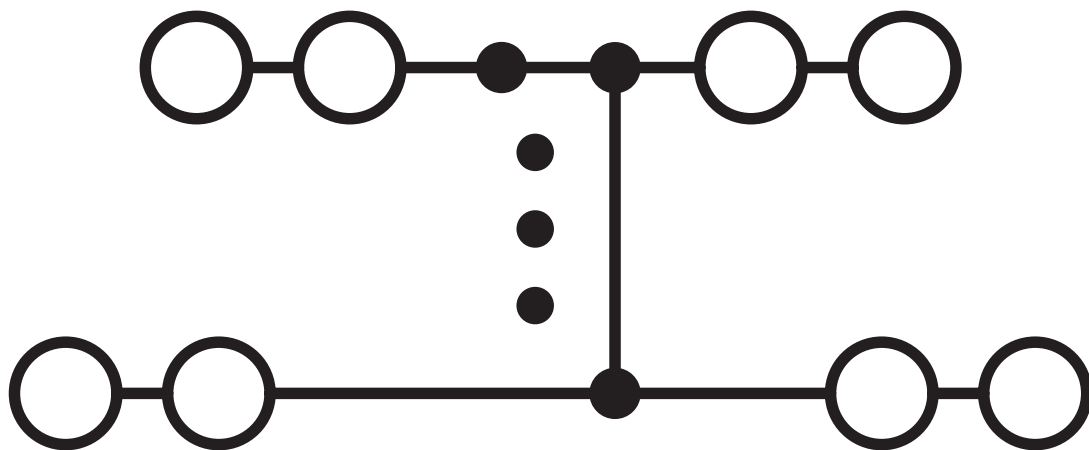


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Drawings

Circuit diagram



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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
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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

 Note: Applying some accessories below might limit this product.


FBST 500-PLC RD - Continuous plug-in bridge

2966786

<https://www.phoenixcontact.com/us/products/2966786>



Continuous plug-in bridge, length: 500 mm, color: red

 Max. current carrying capacity: 32 A

FBST 500-PLC GY - Continuous plug-in bridge

2966838

<https://www.phoenixcontact.com/us/products/2966838>



Continuous plug-in bridge, length: 500 mm, color: gray

 Max. current carrying capacity: 32 A

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FBST 500-PLC BN - Continuous plug-in bridge

2967976

<https://www.phoenixcontact.com/us/products/2967976>



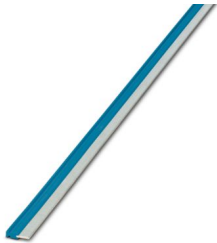
Continuous plug-in bridge, length: 500 mm, color: brown

 Max. current carrying capacity: 32 A


FBST 500-PLC BU - Continuous plug-in bridge

2966692

<https://www.phoenixcontact.com/us/products/2966692>



Continuous plug-in bridge, length: 500 mm, color: blue

 Max. current carrying capacity: 32 A

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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

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



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



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RPS - Reducing plug

0201647

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



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

FBST 50-PLC RD - Plug-in bridge

1081050

<https://www.phoenixcontact.com/us/products/1081050>



Plug-in bridge, length: 50 mm, color: red

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FBST 50-PLC BU - Plug-in bridge

1081051

<https://www.phoenixcontact.com/us/products/1081051>



Plug-in bridge, length: 50 mm, color: blue

FBST 50-PLC GY - Plug-in bridge

1081053

<https://www.phoenixcontact.com/us/products/1081053>



Plug-in bridge, length: 50 mm, 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>

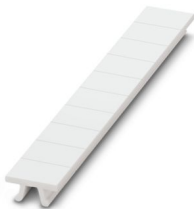


Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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 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

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

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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D-PTRV 8 WH - End cover

3270154

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

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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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

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

D-PTRV 8 WH 1-16 - End cover

3270228

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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

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

D-PTRV 8 WH 9-16 - End cover

3270211

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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 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

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

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

3270214

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

D-PTRV 8 WH 25-32 - End cover

3270215

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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 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

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

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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

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

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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

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

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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

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

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

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

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

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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

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

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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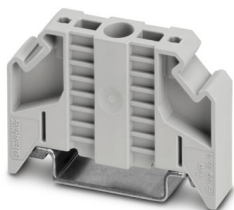
<https://www.phoenixcontact.com/us/products/3270209>

E/NS 35 N - End bracket

0800886

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

End clamp, width: 9.5 mm, color: gray



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

MPS-MT - Test plug

0201744

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



Test plug, 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

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

Insulating sleeve, color: red



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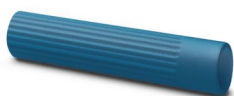
<https://www.phoenixcontact.com/us/products/3270209>

MPS-IH BU - Insulating sleeve

0201689

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

Insulating sleeve, color: blue



MPS-IH YE - Insulating sleeve

0201692

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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com