

Plug - PP-H 1,5/S/1-R



3212714

<https://www.phoenixcontact.com/us/products/3212714>

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Plug, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: gray

Product Description

Connector element right, left housing with engagement pin, right closed with cover

Your advantages

- Large-surface labeling option
- The Push-in technology COMBI plugs for self-assembly provide solutions that users can implement themselves
- Tested for railway applications

Commercial Data

Item number	3212714
Packing unit	1 pc
Minimum order quantity	50 pc
Sales Key	B02
Product Key	BE2244
Catalog Page	Page 285 (C-1-2019)
GTIN	4046356565851
Weight per Piece (including packing)	2.016 g
Weight per Piece (excluding packing)	2.016 g
Customs tariff number	85366990
Country of origin	PL

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Technical Data

Product properties

Product type	Terminal plug
Number of positions	1
Pitch	3.5 mm
Area of application	Railway industry Machine building Plant engineering
Number of connections	1
Number of rows	1
Type	other
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Number of connections per level	1
Nominal cross section	1.5 mm ²

1 level

Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1 / B1
Connection in acc. with standard	IEC 61984
Conductor cross section solid	0.14 mm ² ... 1.5 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)
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.14 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 1 mm ²
Nominal current	17.5 A (observe derating)
Maximum load current	17.5 A (with 1.5 mm ² conductor cross section)
Nominal voltage	500 V
Nominal cross section	1.5 mm ²

1 level Connection cross sections directly pluggable

Conductor cross section solid	0.25 mm ² ... 1.5 mm ²
Flexible conductor cross section flexible (ferrule, w/o plastic	0.34 mm ² ... 1.5 mm ²

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sleeve)	
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm ² ... 1 mm ²

Dimensions

Width	3.5 mm
Height	31.3 mm
Length	16.5 mm
Pitch	3.5 mm

Material specifications

Color	gray
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
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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 61984
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Mounting

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Assembly instructions

Use of a parallel pressing tool is recommended for easy latching of the COMBI connector and coupling elements for self-assembly

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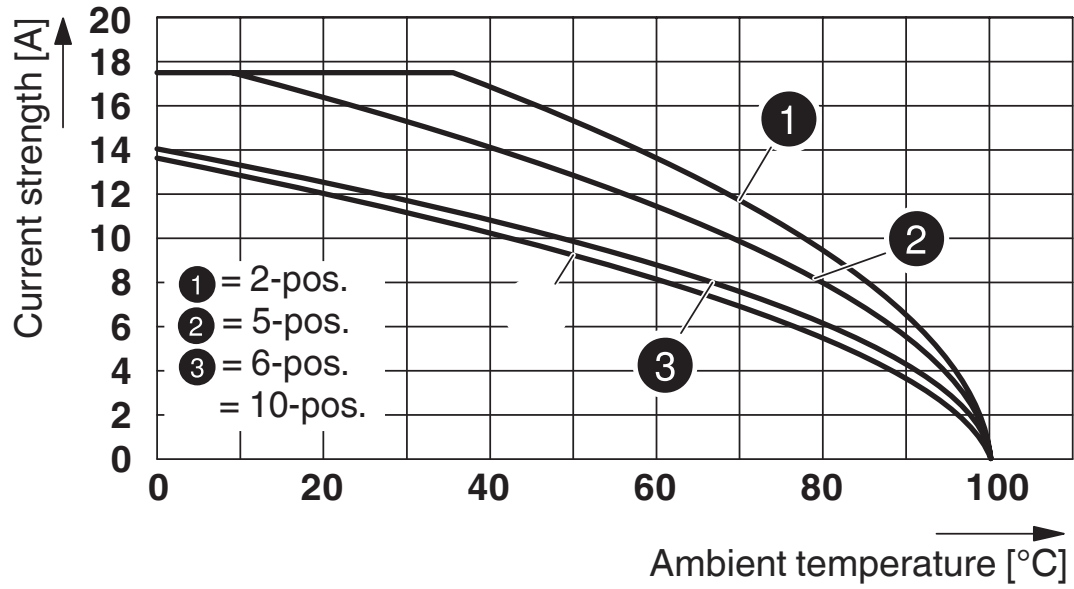
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Drawings

Diagram



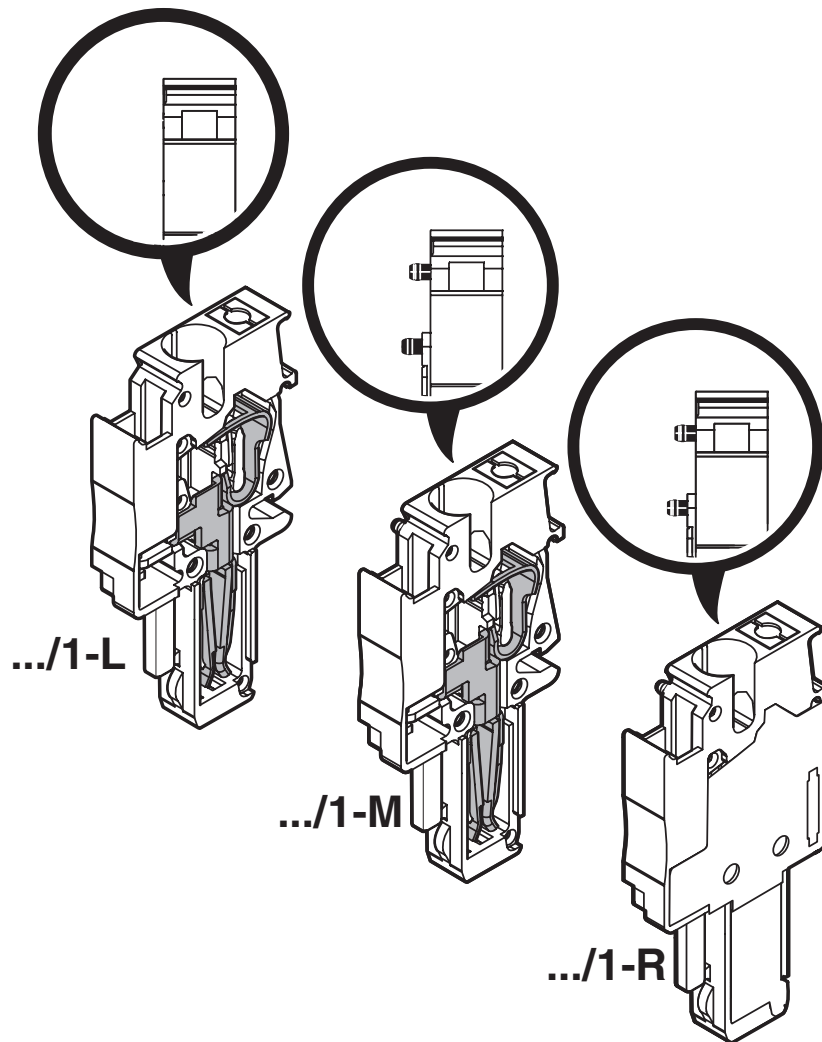
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Schematic diagram



Plug - PP-H 1,5/S/1-R

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Circuit diagram



Plug - PP-H 1,5/S/1-R



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Approvals

DNV

Approval ID: TAE00003JE



CSA

Approval ID: 13631

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B	300 V	15 A	26 - 14	-
Use group C	300 V	15 A	26 - 14	-
Use group D	600 V	5 A	26 - 14	-



IECEE CB Scheme

Approval ID: DE1-65179

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	500 V		-	0.14 - 1.5



EAC

Approval ID: RU C-DE.BL08.B.00511



cULus Recognized

Approval ID: E60425

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B	300 V	15 A	26 - 14	-
Use group C	300 V	15 A	26 - 14	-
Use group D	600 V	5 A	26 - 14	-



LR

Approval ID: 12/20038 (E3)



NK

Approval ID: 14ME0912

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BV

Approval ID: 39979/B0 BV



VDE Gutachten mit Fertigungsüberwachung

Approval ID: 40034766

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	500 V		-	0.14 - 1.5

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Classifications

ECLASS

ECLASS-9.0	27141151
ECLASS-10.0.1	27141151
ECLASS-11.0	27141151

ETIM

ETIM 8.0	EC002021
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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

Latching

Latching - PR 1,5/S - 3212882

<https://www.phoenixcontact.com/us/products/3212882>

Latching, length: 28.9 mm, width: 3.3 mm, number of positions: 1, color: orange



Latching

Latching - PR 1,5/S/2 - 3212895

<https://www.phoenixcontact.com/us/products/3212895>

Latching, length: 28.9 mm, width: 6.8 mm, number of positions: 2, color: orange



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Latching

Latching - PRZ 1,5/S - 3212905

<https://www.phoenixcontact.com/us/products/3212905>



Latching, color: orange

Strain relief

Strain relief - PZ 1,5/S/2 - 3212918

<https://www.phoenixcontact.com/us/products/3212918>



Strain relief, length: 44.5 mm, width: 6.8 mm, number of positions: 2, color: black

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Shield connection clamp

Shield connection clamp - PSH 3- 6 - 3040591

<https://www.phoenixcontact.com/us/products/3040591>



Shield connection clamp, color: black

Shield connection clamp

Shield connection clamp - PSH 5-10 - 3040601

<https://www.phoenixcontact.com/us/products/3040601>



Shield connection clamp, color: black

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Cable housing

Cable housing - PH 1,5/S/3 - 3212756

<https://www.phoenixcontact.com/us/products/3212756>



Cable housing, pitch: 10.5 mm, length: 19.9 mm, width: 10.5 mm, height: 36.8 mm, number of positions: 3, color: gray

Cable housing

Cable housing - PH 1,5/S/4 - 3212769

<https://www.phoenixcontact.com/us/products/3212769>



Cable housing, pitch: 14 mm, length: 19.9 mm, width: 14 mm, height: 36.8 mm, number of positions: 4, color: gray

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Cable housing

Cable housing - PH 1,5/S/5 - 3212772

<https://www.phoenixcontact.com/us/products/3212772>



Cable housing, pitch: 17.5 mm, length: 19.9 mm, width: 17.5 mm, height: 36.8 mm, number of positions: 5, color: gray

Cable housing

Cable housing - PH 1,5/S/6 - 3212785

<https://www.phoenixcontact.com/us/products/3212785>



Cable housing, pitch: 21 mm, length: 19.9 mm, width: 21 mm, height: 36.8 mm, number of positions: 6, color: gray

Plug - PP-H 1,5/S/1-R

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Cable housing

Cable housing - PH 1,5/S/7 - 3212798

<https://www.phoenixcontact.com/us/products/3212798>



Cable housing, pitch: 24.5 mm, length: 19.9 mm, width: 24.5 mm, height: 36.8 mm, number of positions: 7, color: gray

Cable housing

Cable housing - PH 1,5/S/8 - 3212808

<https://www.phoenixcontact.com/us/products/3212808>



Cable housing, pitch: 28 mm, length: 19.9 mm, width: 28 mm, height: 36.8 mm, number of positions: 8, color: gray

Plug - PP-H 1,5/S/1-R

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Cable housing

Cable housing - PH 1,5/S/9 - 3212811

<https://www.phoenixcontact.com/us/products/3212811>



Cable housing, pitch: 31.5 mm, length: 19.9 mm, width: 31.5 mm, height: 36.8 mm, number of positions: 9, color: gray

Cable housing

Cable housing - PH 1,5/S/10 - 3212824

<https://www.phoenixcontact.com/us/products/3212824>



Cable housing, pitch: 35 mm, length: 19.9 mm, width: 35 mm, height: 36.8 mm, number of positions: 10, color: gray

Plug - PP-H 1,5/S/1-R

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Cable housing

Cable housing - PH 1,5/S/11 - 3212837

<https://www.phoenixcontact.com/us/products/3212837>



Cable housing, pitch: 38.5 mm, length: 19.9 mm, width: 38.5 mm, height: 36.8 mm, number of positions: 11, color: gray

Cable housing

Cable housing - PH 1,5/S/12 - 3212840

<https://www.phoenixcontact.com/us/products/3212840>



Cable housing, pitch: 42 mm, length: 19.9 mm, width: 42 mm, height: 36.8 mm, number of positions: 12, color: gray

Plug - PP-H 1,5/S/1-R

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<https://www.phoenixcontact.com/us/products/3212714>



Cable housing

Cable housing - PH 1,5/S/13 - 3212853

<https://www.phoenixcontact.com/us/products/3212853>



Cable housing, pitch: 45.5 mm, length: 19.9 mm, width: 45.5 mm, height: 36.8 mm, number of positions: 13, color: gray

Cable housing

Cable housing - PH 1,5/S/14 - 3212866

<https://www.phoenixcontact.com/us/products/3212866>



Cable housing, pitch: 49 mm, length: 19.9 mm, width: 49 mm, height: 36.8 mm, number of positions: 14, color: gray

Plug - PP-H 1,5/S/1-R

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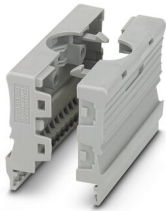
<https://www.phoenixcontact.com/us/products/3212714>



Cable housing

Cable housing - PH 1,5/S/15 - 3212879

<https://www.phoenixcontact.com/us/products/3212879>



Cable housing, pitch: 52.5 mm, length: 19.9 mm, width: 52.5 mm, height: 36.8 mm, number of positions: 15, color: gray

Screwdriver

Screwdriver - SZF 0-0,4X2,5 - 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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Actuation tool

Actuation tool - ST-BW 0 - 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

Ferrule

Ferrule - AI-S 1 - 8 TQ - 1200293

<https://www.phoenixcontact.com/us/products/1200293>



Ferrule, S-Slimline, sleeve length: 8 mm, length: 14.5 mm, color: turquoise

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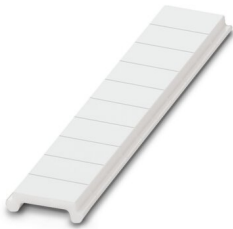
<https://www.phoenixcontact.com/us/products/3212714>



Zack Marker strip, flat

Zack Marker strip, flat - ZBF 3,5:UNBEDRUCKT - 0829392

<https://www.phoenixcontact.com/us/products/0829392>

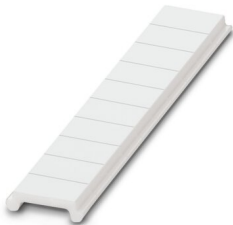


Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 3.5 mm, lettering field size: 3.5 x 5.2 mm, Number of individual labels: 10

Zack Marker strip, flat

Zack Marker strip, flat - ZBF 3,5 CUS - 0829394

<https://www.phoenixcontact.com/us/products/0829394>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 3.5 mm, lettering field size: 3.5 x 5.2 mm, Number of individual labels: 10

Plug - PP-H 1,5/S/1-R

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Zack Marker strip, flat

Zack Marker strip, flat - ZBF 3,5,LGS:FORTL.ZAHLEN - 0801406

<https://www.phoenixcontact.com/us/products/0801406>

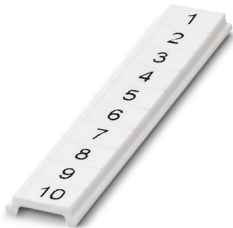


Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 3.5 mm, lettering field size: 5.15 x 3.5 mm, Number of individual labels: 10

Zack Marker strip, flat

Zack Marker strip, flat - ZBF 3,5,QR:FORTL.ZAHLEN - 0801407

<https://www.phoenixcontact.com/us/products/0801407>



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 3.5 mm, lettering field size: 5.15 x 3.5 mm, Number of individual labels: 10

Plug - PP-H 1,5/S/1-R

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Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 3,5 - 0829486

<https://www.phoenixcontact.com/us/products/0829486>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 3.5 mm, lettering field size: 2.7 x 4.7 mm, Number of individual labels: 108

Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 3,5 CUS - 0829644

<https://www.phoenixcontact.com/us/products/0829644>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 3.5 mm, lettering field size: 2.7 x 4.7 mm, Number of individual labels: 108

Plug - PP-H 1,5/S/1-R

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Test plugs

Test plugs - MPS-MT - 0201744

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



Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

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



Insulating sleeve, color: white

Plug - PP-H 1,5/S/1-R

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Insulating sleeve

Insulating sleeve - MPS-IH RD - 0201676

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

Insulating sleeve, color: red

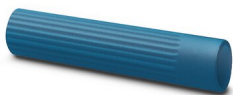


Insulating sleeve

Insulating sleeve - MPS-IH BU - 0201689

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

Insulating sleeve, color: blue



Plug - PP-H 1,5/S/1-R

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Insulating sleeve

Insulating sleeve - MPS-IH YE - 0201692

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

Insulating sleeve, color: yellow



Insulating sleeve

Insulating sleeve - MPS-IH GN - 0201702

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

Insulating sleeve, color: green



Plug - PP-H 1,5/S/1-R

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Insulating sleeve

Insulating sleeve - MPS-IH GY - 0201728

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

Insulating sleeve, color: gray



Insulating sleeve

Insulating sleeve - MPS-IH BK - 0201731

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

Insulating sleeve, color: black



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