

PP-H 1,5/S/9 - Plug

3212581

<https://www.phoenixcontact.com/pc/products/3212581>



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Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 9, number of positions: 9, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: gray

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	3212581
Packing unit	25 pc
Minimum order quantity	25 pc
Product key	BE2244
Catalog page	Page 284 (C-1-2019)
GTIN	4046356565721
Weight per piece (including packing)	15.382 g
Weight per piece (excluding packing)	15.382 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Product properties

Product type	Terminal plug
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	9
Pitch	3.5 mm
Number of connections	9
Number of rows	1
Type	other
Potentials	9

Data management status

Article revision	02
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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	9
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 rigid	0.14 mm ² ... 1.5 mm ²
Cross section AWG	26 ... 16 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	26 ... 16 (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 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

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Conductor cross section rigid	0.25 mm ² ... 1.5 mm ²
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 mm ²

Dimensions

Width	31.5 mm
Height	16.5 mm
Depth	31.3 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

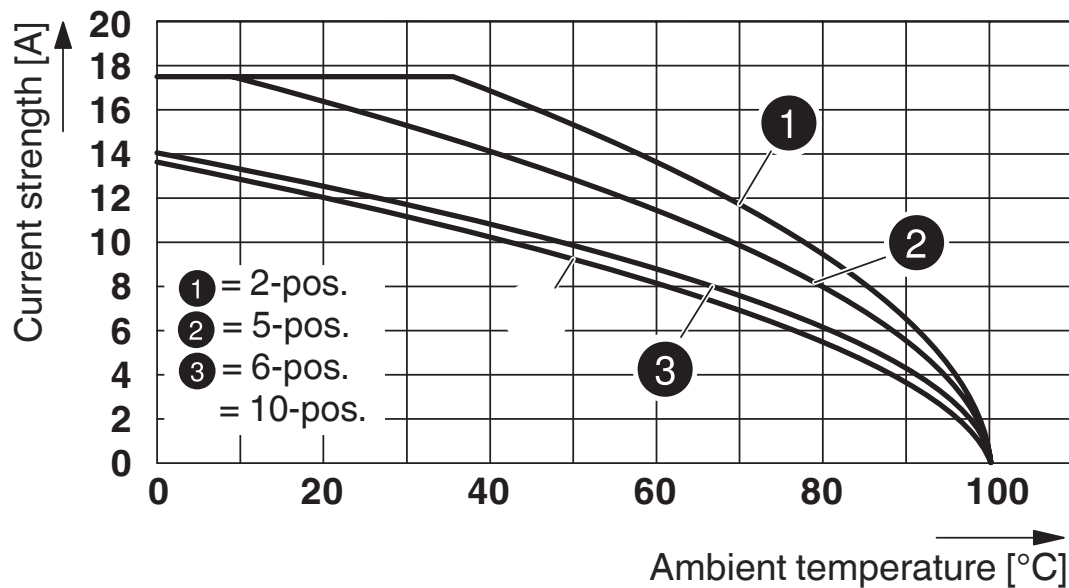
Ambient temperature (operation)	-60 °C (max. operating temperature see derating curve)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 61984
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Drawings

Diagram



Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/3212581>



CSA
Approval ID: 2030668

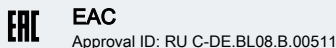


CSA
Approval ID: 2030668



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

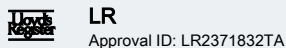


EAC
Approval ID: RU C-DE.BL08.B.00511



cULus Recognized
Approval ID: E60425

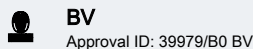
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	300 V	15 A	26 - 14	-
Use group C	300 V	15 A	26 - 14	-
Use group D	600 V	5 A	26 - 14	-



LR
Approval ID: LR2371832TA



NK
Approval ID: 14ME0912



BV
Approval ID: 39979/B0 BV



VDE Gutachten mit Fertigungsüberwachung
Approval ID: 40034766

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	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	500 V	-	-	-

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Classifications

ECLASS

ECLASS-11.0	27141151
ECLASS-12.0	27141151
ECLASS-13.0	27250306

ETIM

ETIM 9.0	EC002021
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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

PR 1,5/S - Latching

3212882

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



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

PR 1,5/S/2 - Latching

3212895

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



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

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PRZ 1,5/S - Latching

3212905

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Latching, length: 59 mm, color: orange

PH 1,5/S/9 - Cable housing

3212811

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



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

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AI-S 1 - 8 TQ - Ferrule

1200293

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

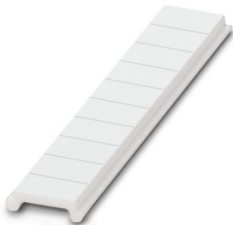


Ferrule, S-Slimline, sleeve length: 8 mm, color: turquoise

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

0829392

<https://www.phoenixcontact.com/pc/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

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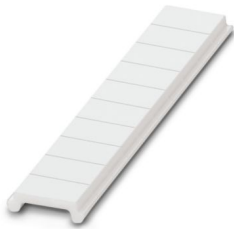
<https://www.phoenixcontact.com/pc/products/3212581>



ZBF 3,5 CUS - Zack Marker strip, flat

0829394

<https://www.phoenixcontact.com/pc/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

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

0801406

<https://www.phoenixcontact.com/pc/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

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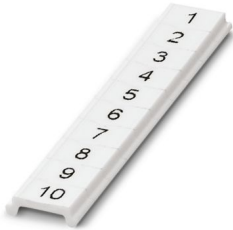
<https://www.phoenixcontact.com/pc/products/3212581>



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

0801407

<https://www.phoenixcontact.com/pc/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

UCT-TMF 3,5 - Marker for terminal blocks

0829486

<https://www.phoenixcontact.com/pc/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

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

0829644

<https://www.phoenixcontact.com/pc/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

MPS-MT - Test plug

0201744

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

Insulating sleeve, color: white



MPS-IH RD - Insulating sleeve

0201676

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

Insulating sleeve, color: red



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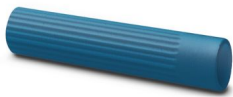


MPS-IH BU - Insulating sleeve

0201689

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

Insulating sleeve, color: green



MPS-IH GY - Insulating sleeve

0201728

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

Insulating sleeve, color: gray



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MPS-IH BK - Insulating sleeve

0201731

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

Insulating sleeve, color: black



PZ 1,5/S/2 - Strain relief

3212918

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

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



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SZF 0-0,4X2,5 - Screwdriver

1204504

<https://www.phoenixcontact.com/pc/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

ST-BW 0 - Actuation tool

1200135

<https://www.phoenixcontact.com/pc/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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