

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, 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 center, left housing with engagement pin, right opened without 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	3212688
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2244
Catalog page	Page 285 (C-1-2019)
GTIN	4046356565820
Weight per piece (including packing)	1.91 g
Weight per piece (excluding packing)	1.867 g
Customs tariff number	85366990
Country of origin	PL

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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 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

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

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



3212688

<https://www.phoenixcontact.com/us/products/3212688>

Dimensions

Width	3.5 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
-----------------	-----

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

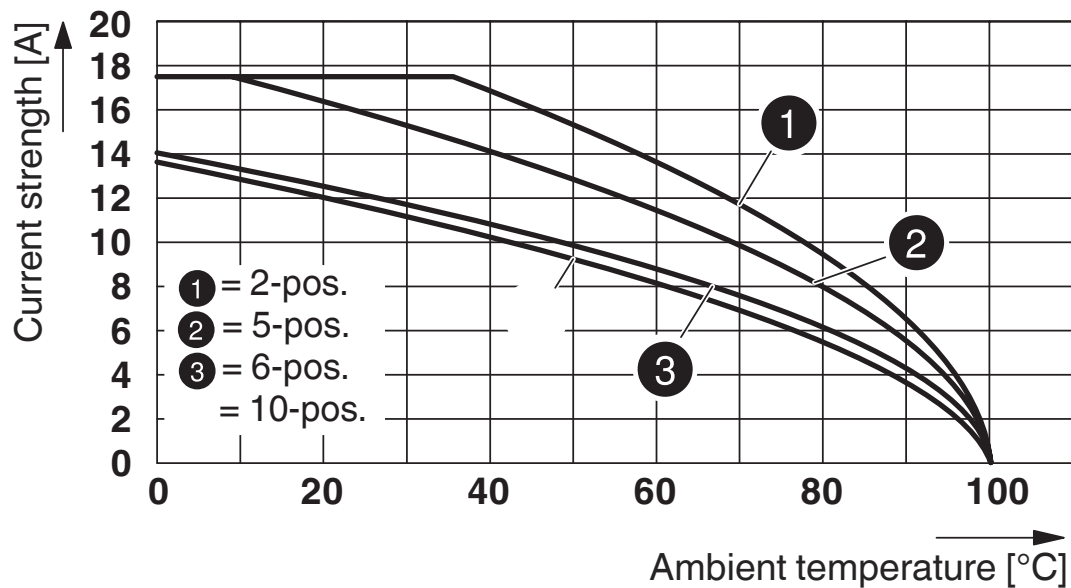
Connection in acc. with standard	IEC 61984
----------------------------------	-----------

Mounting

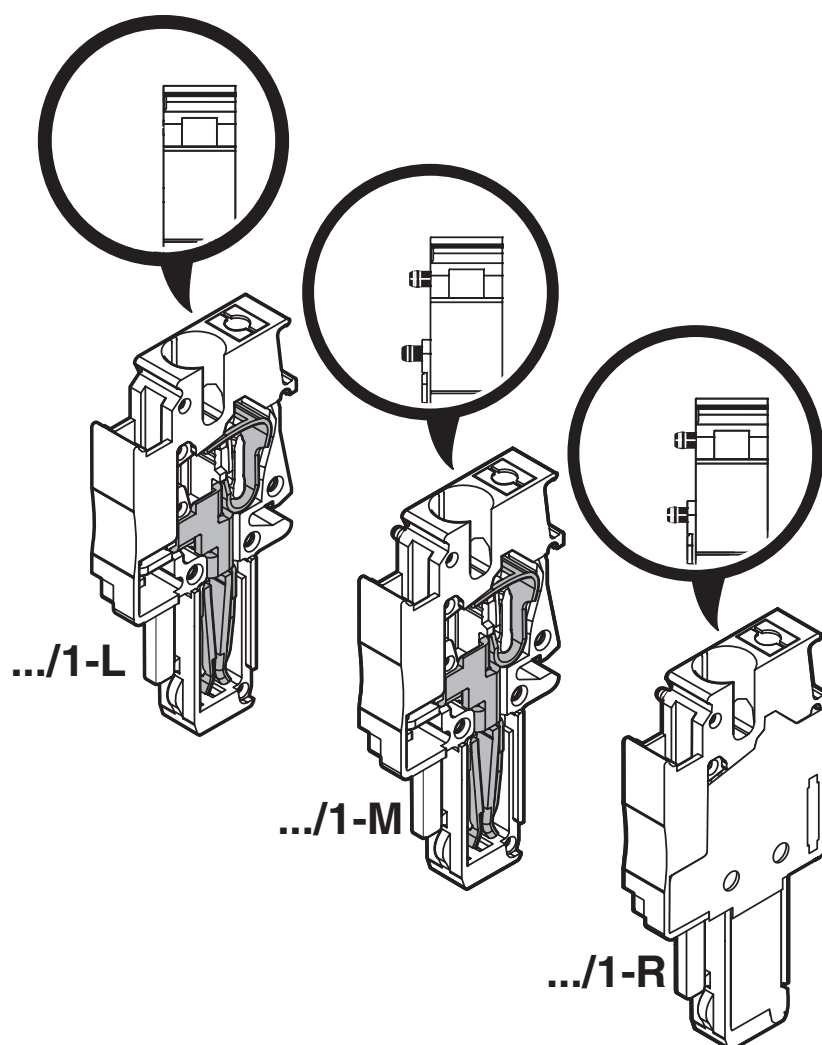
Assembly instructions	Use of a parallel pressing tool is recommended for easy latching of the COMBI connector and coupling elements for self-assembly
-----------------------	---

Drawings

Diagram



Schematic diagram



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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



Circuit diagram



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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3212688>

DNV

Approval ID: TAE00003JE



CSA

Approval ID: 2030668

	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: LR2371832TA



NK


Approval ID: 14ME0912

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

3212688


<https://www.phoenixcontact.com/us/products/3212688>





BV

Approval ID: 39979/B0 BV

	<div></div> <div>VDE Gutachten mit Fertigungsüberwachung</div> <div>Approval ID: 40034766</div>			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	500 V	-	-	-

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002021
----------	----------

UNSPSC

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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



Environmental product compliance

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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



Accessories

PR 1,5/S - Latching

3212882

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



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PRZ 1,5/S - Latching

3212905

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

Latching, length: 59 mm, color: orange



PH 1,5/S/3 - Cable housing

3212756

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

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



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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PH 1,5/S/4 - Cable housing

3212769

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



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

PH 1,5/S/5 - Cable housing

3212772

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



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PH 1,5/S/6 - Cable housing

3212785

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



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

PH 1,5/S/7 - Cable housing

3212798

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



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PH 1,5/S/8 - Cable housing

3212808

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



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

PH 1,5/S/9 - Cable housing

3212811

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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PH 1,5/S/10 - Cable housing

3212824

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



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

PH 1,5/S/11 - Cable housing

3212837

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



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

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

3212688

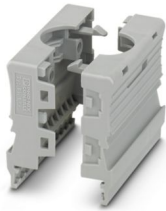
<https://www.phoenixcontact.com/us/products/3212688>



PH 1,5/S/12 - Cable housing

3212840

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



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

PH 1,5/S/13 - Cable housing

3212853

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



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PH 1,5/S/14 - Cable housing

3212866

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



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

PH 1,5/S/15 - Cable housing

3212879

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



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



AI-S 1 - 8 TQ - Ferrule

1200293

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

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



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

3212659

<https://www.phoenixcontact.com/us/products/3212659>



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PP-H 1,5/S/1-L BU - Plug

3212662

<https://www.phoenixcontact.com/us/products/3212662>



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

PP-H 1,5/S/1-L GNYE - Plug

3212675

<https://www.phoenixcontact.com/us/products/3212675>



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PP-H 1,5/S/1-L RD - Plug

3212696

<https://www.phoenixcontact.com/us/products/3212696>



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

PP-H 1,5/S/1-L/P-GN - Plug

1186132

<https://www.phoenixcontact.com/us/products/1186132>



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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

PP-H 1,5/S/1-M BK - Plug

3212694

<https://www.phoenixcontact.com/us/products/3212694>



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PP-H 1,5/S/1-M BU - Plug

3212691

<https://www.phoenixcontact.com/us/products/3212691>



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

PP-H 1,5/S/1-M GNYE - Plug

3212701

<https://www.phoenixcontact.com/us/products/3212701>



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



PP-H 1,5/S/1-M RD - Plug

3212692

<https://www.phoenixcontact.com/us/products/3212692>



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

PP-H 1,5/S/1-M/P-GN - Plug

1186129

<https://www.phoenixcontact.com/us/products/1186129>



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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

3212714

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



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

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

3212727

<https://www.phoenixcontact.com/us/products/3212727>



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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

3212730

<https://www.phoenixcontact.com/us/products/3212730>



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

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

3212695

<https://www.phoenixcontact.com/us/products/3212695>



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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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

1186127

<https://www.phoenixcontact.com/us/products/1186127>

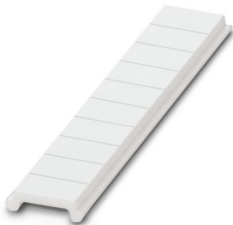


Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: gray

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

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

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

3212688

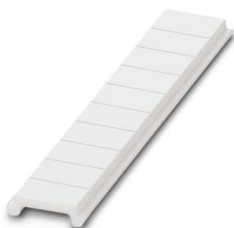
<https://www.phoenixcontact.com/us/products/3212688>



ZBF 3,5 CUS - Zack Marker strip, flat

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

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

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

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

3212688

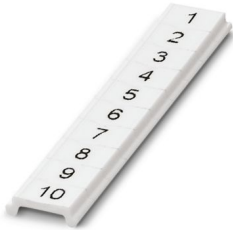
<https://www.phoenixcontact.com/us/products/3212688>



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

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

UCT-TMF 3,5 - Marker for terminal blocks

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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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

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

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

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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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



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

3212688

<https://www.phoenixcontact.com/us/products/3212688>

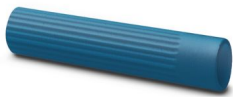


MPS-IH BU - Insulating sleeve

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



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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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



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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



MPS-IH BK - Insulating sleeve

0201731

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

Insulating sleeve, color: black



PZ 1,5/S/2 - Strain relief

3212918

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

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



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

3212688

<https://www.phoenixcontact.com/us/products/3212688>



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

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

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

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