

PP-H 2,5/1-M BU - Plug

3210101

<https://www.phoenixcontact.com/us/products/3210101>



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Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: blue

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	3210101
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2244
Catalog page	Page 299 (C-1-2019)
GTIN	4046356333511
Weight per piece (including packing)	3.582 g
Weight per piece (excluding packing)	3.56 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	1
Pitch	5.2 mm
Number of connections	1
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	1
Nominal cross section	2.5 mm ²

1 level

Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 61984
Conductor cross section rigid	0.14 mm ² ... 4 mm ²
Cross section AWG	26 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 2.5 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 ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ²
Nominal current	24 A
Maximum load current	24 A (with 4 mm ² conductor cross section)
Nominal voltage	500 V
Nominal cross section	2.5 mm ²

1 level Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm ² ... 4 mm ²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm ² ... 2.5 mm ²

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Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² ... 2.5 mm²
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Dimensions

Width	5.2 mm
Height	15.8 mm
Depth	40.2 mm
Pitch	5.2 mm

Material specifications

Color	blue
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	No
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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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Mounting

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Assembly note

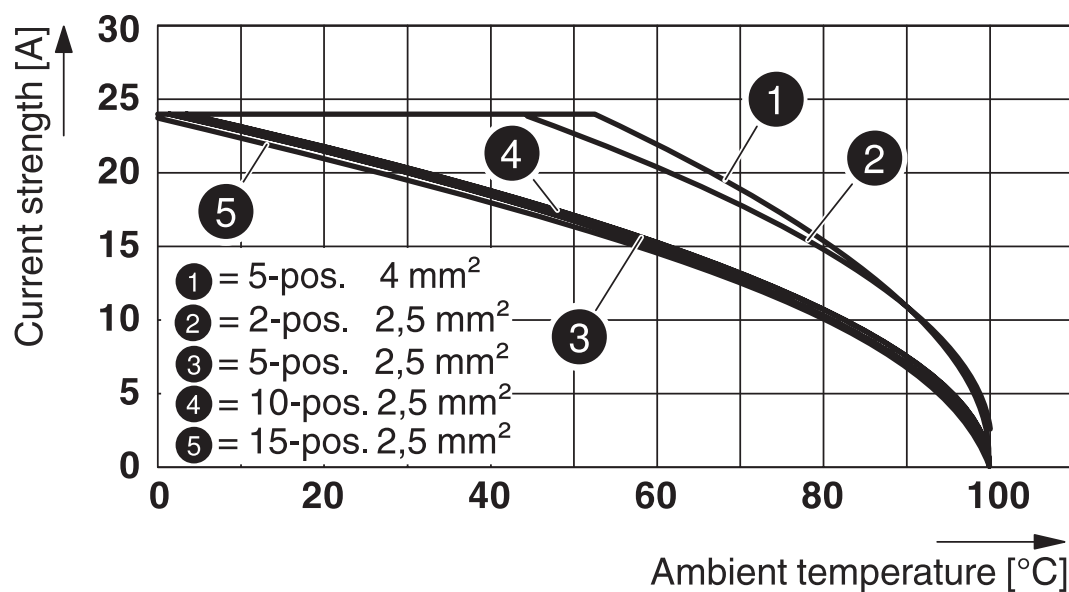
Use of a parallel pressing tool is recommended for easy latching of the COMBI connector and coupling elements for self-assembly

Drawings

Circuit diagram



Diagram



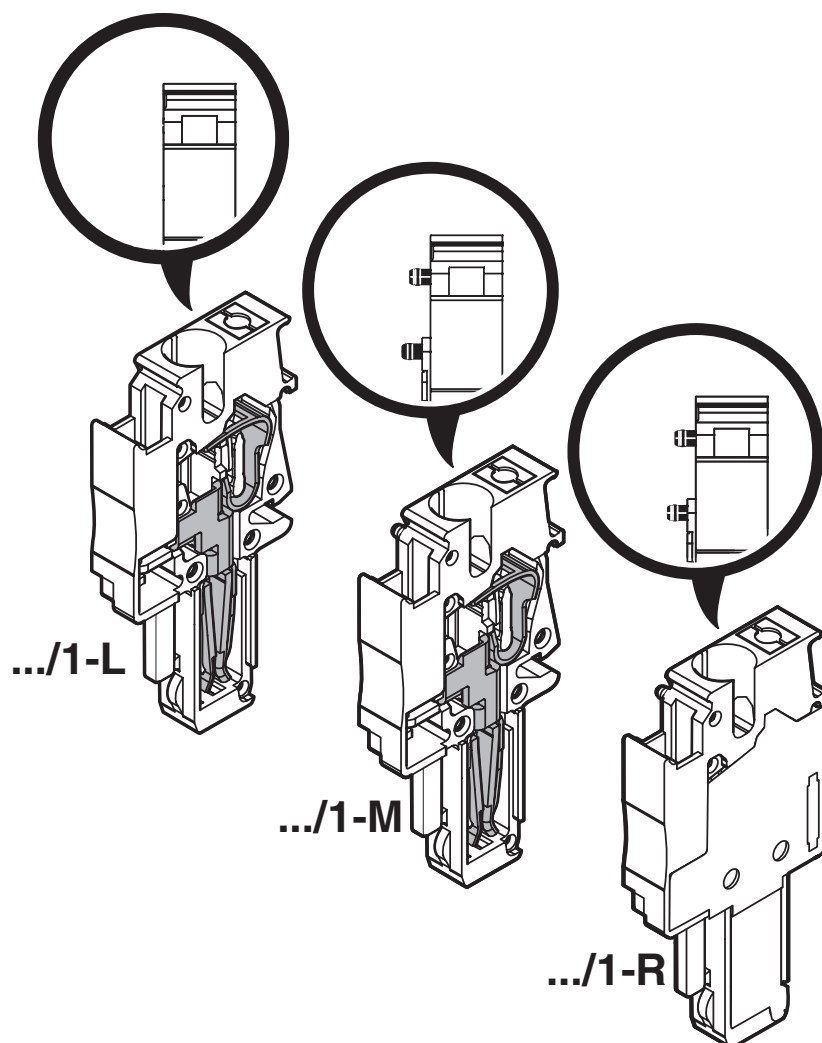
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Schematic diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3210101>

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	20 A	26 - 12	-
Use group C				
	300 V	20 A	26 - 12	-



EAC

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



cULus Recognized

Approval ID: E60425



LR

Approval ID: LR2371832TA



NK

Approval ID: 14ME0912



BV

Approval ID: 25278/C1 BV

ABS

Approval ID: 21-2192245-PDA



cULus Recognized

Approval ID: E60425

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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

PZ/2 - Strain relief

3040627

<https://www.phoenixcontact.com/us/products/3040627>



Strain relief, width: 9.3 mm, height: 48.7 mm, number of positions: 2, color: black

PZ/4 - Strain relief

3040643

<https://www.phoenixcontact.com/us/products/3040643>



Strain relief, width: 19.6 mm, height: 48.7 mm, number of positions: 4, color: black

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PR - Latching

3040559

<https://www.phoenixcontact.com/us/products/3040559>



Latching, width: 4.4 mm, height: 29.8 mm, number of positions: 1, color: orange

PR/2 - Latching

3040630

<https://www.phoenixcontact.com/us/products/3040630>



Latching, width: 10 mm, height: 29.8 mm, number of positions: 2, color: orange

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PRT/2 - Latching

3040631

<https://www.phoenixcontact.com/us/products/3040631>



Latching, can only be released using a screwdriver, width: 9 mm, height: 23.2 mm, number of positions: 2, color: orange

PRZ - Latching

3040614

<https://www.phoenixcontact.com/us/products/3040614>



Latching, number of positions: 2, length: 64 mm, color: orange

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PH 2,5/ 2 - Cable housing

3209691

<https://www.phoenixcontact.com/us/products/3209691>



Cable housing, pitch: 10.4 mm, depth: 36.8 mm, width: 10.4 mm, height: 19.9 mm, number of positions: 2, color: gray

PH 2,5/ 3 - Cable housing

3209701

<https://www.phoenixcontact.com/us/products/3209701>



Cable housing, pitch: 15.6 mm, depth: 36.8 mm, width: 15.6 mm, height: 19.9 mm, number of positions: 3, color: gray

PP-H 2,5/1-M BU - Plug

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PH 2,5/ 4 - Cable housing

3209714

<https://www.phoenixcontact.com/us/products/3209714>



Cable housing, pitch: 20.8 mm, depth: 36.8 mm, width: 20.8 mm, height: 19.9 mm, number of positions: 4, color: gray

PH 2,5/ 5 - Cable housing

3209727

<https://www.phoenixcontact.com/us/products/3209727>



Cable housing, pitch: 26 mm, depth: 36.8 mm, width: 26 mm, height: 19.9 mm, number of positions: 5, color: gray

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PH 2,5/ 6 - Cable housing

3209730

<https://www.phoenixcontact.com/us/products/3209730>



Cable housing, pitch: 31.2 mm, depth: 36.8 mm, width: 31.2 mm, height: 19.9 mm, number of positions: 6, color: gray

PH 2,5/ 7 - Cable housing

3209743

<https://www.phoenixcontact.com/us/products/3209743>



Cable housing, pitch: 36.4 mm, depth: 36.8 mm, width: 36.4 mm, height: 19.9 mm, number of positions: 7, color: gray

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PH 2,5/ 8 - Cable housing

3209756

<https://www.phoenixcontact.com/us/products/3209756>



Cable housing, pitch: 41.6 mm, depth: 36.8 mm, width: 41.6 mm, height: 19.9 mm, number of positions: 8, color: gray

PH 2,5/ 9 - Cable housing

3209507

<https://www.phoenixcontact.com/us/products/3209507>



Cable housing, pitch: 46.8 mm, depth: 36.8 mm, width: 46.8 mm, height: 19.9 mm, number of positions: 9, color: gray

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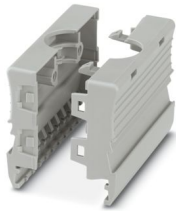
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PH 2,5/10 - Cable housing

3209769

<https://www.phoenixcontact.com/us/products/3209769>

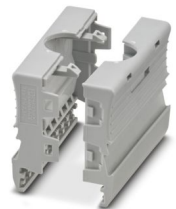


Cable housing, pitch: 52 mm, depth: 36.8 mm, width: 52 mm, height: 19.9 mm, number of positions: 10, color: gray

PH 2,5/11 - Cable housing

3209772

<https://www.phoenixcontact.com/us/products/3209772>



Cable housing, pitch: 57.2 mm, depth: 36.8 mm, width: 57.2 mm, height: 19.9 mm, number of positions: 11, color: gray

PP-H 2,5/1-M BU - Plug

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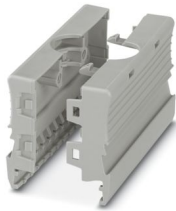
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PH 2,5/12 - Cable housing

3209785

<https://www.phoenixcontact.com/us/products/3209785>

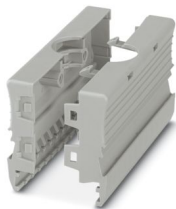


Cable housing, pitch: 62.4 mm, depth: 36.8 mm, width: 62.4 mm, height: 19.9 mm, number of positions: 12, color: gray

PH 2,5/13 - Cable housing

3209798

<https://www.phoenixcontact.com/us/products/3209798>



Cable housing, pitch: 67.6 mm, depth: 36.8 mm, width: 67.6 mm, height: 19.9 mm, number of positions: 13, color: gray

PP-H 2,5/1-M BU - Plug

3210101

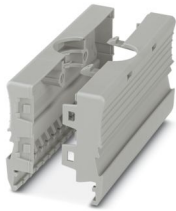
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PH 2,5/14 - Cable housing

3209808

<https://www.phoenixcontact.com/us/products/3209808>

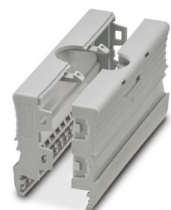


Cable housing, pitch: 72.8 mm, depth: 36.8 mm, width: 72.8 mm, height: 19.9 mm, number of positions: 14, color: gray

PH 2,5/15 - Cable housing

3209811

<https://www.phoenixcontact.com/us/products/3209811>



Cable housing, pitch: 78 mm, depth: 36.8 mm, width: 78 mm, height: 19.9 mm, number of positions: 15, color: gray

PP-H 2,5/1-M BU - Plug

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PP-H 2,5/1-L - Plug

3210062

<https://www.phoenixcontact.com/us/products/3210062>



Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: gray

PP-H 2,5/1-L BU - Plug

3210075

<https://www.phoenixcontact.com/us/products/3210075>



Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: blue

PP-H 2,5/1-M BU - Plug

3210101

<https://www.phoenixcontact.com/us/products/3210101>



PP-H 2,5/1-L GNYE - Plug

3210088

<https://www.phoenixcontact.com/us/products/3210088>



Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: green-yellow

PP-H 2,5/1-M - Plug

3210091

<https://www.phoenixcontact.com/us/products/3210091>



Plug, nom. voltage: 500 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: gray

PP-H 2,5/1-M BU - Plug

3210101

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PP-H 2,5/1-M BU - Plug

3210101

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Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: blue

PP-H 2,5/1-M GNYE - Plug

3210114

<https://www.phoenixcontact.com/us/products/3210114>



Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: green-yellow

PP-H 2,5/1-M BU - Plug

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PP-H 2,5/1-R - Plug

3210127

<https://www.phoenixcontact.com/us/products/3210127>



Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: gray

PP-H 2,5/1-R BU - Plug

3210130

<https://www.phoenixcontact.com/us/products/3210130>



Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: blue

PP-H 2,5/1-M BU - Plug

3210101

<https://www.phoenixcontact.com/us/products/3210101>



PP-H 2,5/1-R GNYE - Plug

3210143

<https://www.phoenixcontact.com/us/products/3210143>



Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², color: green-yellow

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 2,5/1-M BU - Plug

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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



PP-H 2,5/1-M BU - Plug

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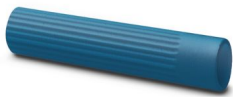


MPS-IH BU - Insulating sleeve

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



PP-H 2,5/1-M BU - Plug

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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



PP-H 2,5/1-M BU - Plug

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MPS-IH BK - Insulating sleeve

0201731

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

Insulating sleeve, color: black



ISH 2,5/0,2 - Insulating sleeve

3002843

<https://www.phoenixcontact.com/us/products/3002843>

Insulating sleeve, color: white



PP-H 2,5/1-M BU - Plug

3210101

<https://www.phoenixcontact.com/us/products/3210101>



ISH 2,5/0,5 - Insulating sleeve

3002856

<https://www.phoenixcontact.com/us/products/3002856>



Insulating sleeve, color: gray

ISH 2,5/1,0 - Insulating sleeve

3002869

<https://www.phoenixcontact.com/us/products/3002869>



Insulating sleeve, color: black

PP-H 2,5/1-M BU - Plug

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ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

<https://www.phoenixcontact.com/us/products/0808642>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

ZBF 5 CUS - Zack Marker strip, flat

0825025

<https://www.phoenixcontact.com/us/products/0825025>



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: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

PP-H 2,5/1-M BU - Plug

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

0808671

<https://www.phoenixcontact.com/us/products/0808671>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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

0808697

<https://www.phoenixcontact.com/us/products/0808697>



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: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

PP-H 2,5/1-M BU - Plug

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ZBF 5,LGS:GERADE ZAHLEN - Zack Marker strip, flat

0810821

<https://www.phoenixcontact.com/us/products/0810821>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive even numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

ZBF 5,LGS:UNGERADE ZAHLEN - Zack Marker strip, flat

0810863

<https://www.phoenixcontact.com/us/products/0810863>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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<https://www.phoenixcontact.com/us/products/3210101>



UC-TMF 5 - Marker for terminal blocks

0818153

<https://www.phoenixcontact.com/us/products/0818153>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

UC-TMF 5 CUS - Marker for terminal blocks

0824638

<https://www.phoenixcontact.com/us/products/0824638>



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: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

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UCT-TMF 5 - Marker for terminal blocks

0828744

<https://www.phoenixcontact.com/us/products/0828744>



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: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

UCT-TMF 5 CUS - Marker for terminal blocks

0829658

<https://www.phoenixcontact.com/us/products/0829658>



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: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

PP-H 2,5/1-M BU - Plug

3210101

<https://www.phoenixcontact.com/us/products/3210101>



ST-BW - Actuation tool

1207608

<https://www.phoenixcontact.com/us/products/1207608>

Actuation tool, for all 2.5 mm² - 4.0 mm² spring-cages



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