

# Plug - PP-H 2,5/ 8

3209934

<https://www.phoenixcontact.com/de/produkte/3209934>



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Plug, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: Plug-in mounting, color: gray

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## 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

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## Commercial Data

Item number	3209934
Packing unit	25 pc
Minimum order quantity	1 pc
Sales Key	A1 - Reihenklennen
Product Key	BE2244
Catalog Page	Page 298 (C-1-2019)
GTIN	4046356366823
Weight per Piece (including packing)	26,974 g
Weight per Piece (excluding packing)	26,924 g
Customs tariff number	85366990
Country of origin	PL

# Plug - PP-H 2,5/ 8

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## Technical Data

### Product properties

Product type	Terminal plug
Number of positions	8
Pitch	5.2 mm
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	8
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	8
Nominal cross section	2.5 mm <sup>2</sup>

#### 1 level

Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Conductor cross section solid	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	26 ... 12
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	26 ... 14
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup>
Nominal current	24 A
Maximum load current	24 A (with 4 mm <sup>2</sup> conductor cross section)
Nominal voltage	500 V
Nominal cross section	2.5 mm <sup>2</sup>

#### 1 level Connection cross sections directly pluggable

Conductor cross section solid	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

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Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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## Dimensions

Width	41.6 mm
Height	40.2 mm
Length	15.8 mm
Pitch	5.2 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	No
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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

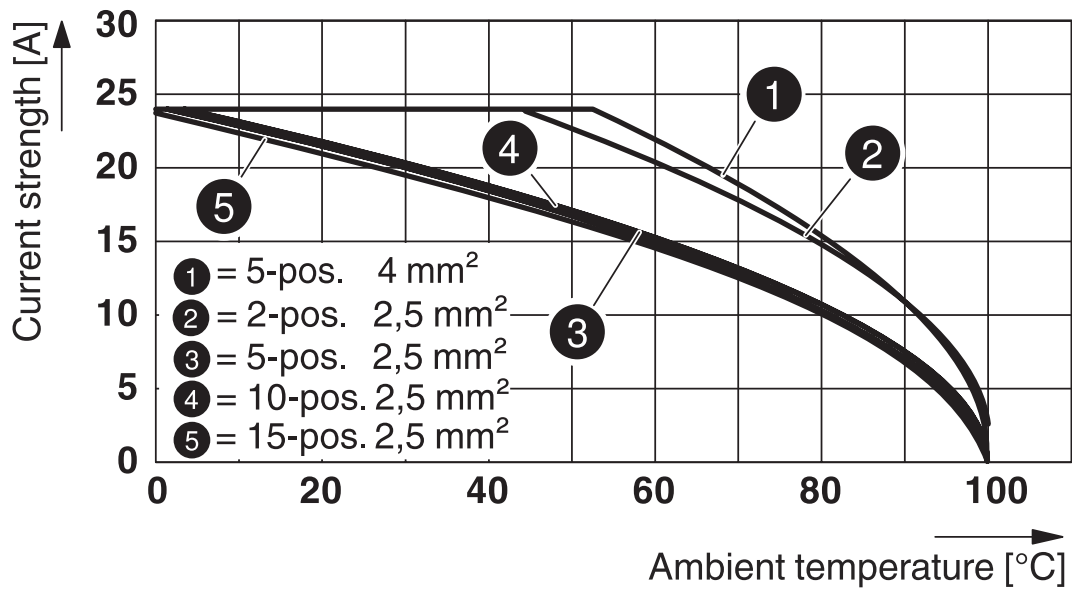
Mounting type	Plug-in mounting
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## Drawings

Circuit diagram



Diagram



# Plug - PP-H 2,5/ 8



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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 $\text{mm}^2$
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

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
Use group B				
	300 V	20 A	26 - 12	-
Use group C				
	300 V	20 A	26 - 12	-
Use group D				
	600 V	5 A	26 - 12	-



**LR**

Approval ID: 12/20038 (E3)



**NK**

Approval ID: 14ME0912



**RS**

Approval ID: 17.00013.272



**BV**

Approval ID: 25278/B0 BV

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
			-	-

# Plug - PP-H 2,5/ 8

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**ABS**

Approval ID: 21-2192245-PDA



**LR**

Approval ID: 14/20056

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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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# Plug - PP-H 2,5/ 8

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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

### Strain relief

Strain relief - PZ/2 - 3040627

<https://www.phoenixcontact.com/de/produkte/3040627>



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

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### Test plugs

Test plugs - MPS-MT - 0201744

<https://www.phoenixcontact.com/de/produkte/0201744>



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, color: gray

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<https://www.phoenixcontact.com/de/produkte/3209934>



## Strain relief

Strain relief - PZ/4 - 3040643

<https://www.phoenixcontact.com/de/produkte/3040643>

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



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## Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

<https://www.phoenixcontact.com/de/produkte/0201663>

Insulating sleeve, color: white



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<https://www.phoenixcontact.com/de/produkte/3209934>



## Latching

Latching - PR - 3040559

<https://www.phoenixcontact.com/de/produkte/3040559>



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

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## Insulating sleeve

Insulating sleeve - MPS-IH RD - 0201676

<https://www.phoenixcontact.com/de/produkte/0201676>



Insulating sleeve, color: red

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<https://www.phoenixcontact.com/de/produkte/3209934>

## Latching

Latching - PR/2 - 3040630

<https://www.phoenixcontact.com/de/produkte/3040630>



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

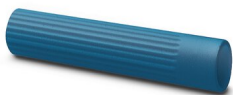
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## Insulating sleeve

Insulating sleeve - MPS-IH BU - 0201689

<https://www.phoenixcontact.com/de/produkte/0201689>

Insulating sleeve, color: blue



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<https://www.phoenixcontact.com/de/produkte/3209934>



## Latching

Latching - PRT/2 - 3040631

<https://www.phoenixcontact.com/de/produkte/3040631>



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

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## Insulating sleeve

Insulating sleeve - MPS-IH YE - 0201692

<https://www.phoenixcontact.com/de/produkte/0201692>

Insulating sleeve, color: yellow



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<https://www.phoenixcontact.com/de/produkte/3209934>



## Latching

Latching - PRZ - 3040614

<https://www.phoenixcontact.com/de/produkte/3040614>



Latching, color: orange

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## Insulating sleeve

Insulating sleeve - MPS-IH GN - 0201702

<https://www.phoenixcontact.com/de/produkte/0201702>



Insulating sleeve, color: green

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<https://www.phoenixcontact.com/de/produkte/3209934>



## Shield connection clamp

Shield connection clamp - PSH 3- 6 - 3040591

<https://www.phoenixcontact.com/de/produkte/3040591>



Shield connection clamp, color: black

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## Insulating sleeve

Insulating sleeve - MPS-IH GY - 0201728

<https://www.phoenixcontact.com/de/produkte/0201728>



Insulating sleeve, color: gray



# Plug - PP-H 2,5/ 8

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<https://www.phoenixcontact.com/de/produkte/3209934>



## Shield connection clamp

Shield connection clamp - PSH 5-10 - 3040601

<https://www.phoenixcontact.com/de/produkte/3040601>



Shield connection clamp, color: black

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## Insulating sleeve

Insulating sleeve - MPS-IH BK - 0201731

<https://www.phoenixcontact.com/de/produkte/0201731>



Insulating sleeve, color: black

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<https://www.phoenixcontact.com/de/produkte/3209934>

## Flange cover

Flange cover - DF-SP-H 2,5 - 3209824

<https://www.phoenixcontact.com/de/produkte/3209824>

Flange cover, length: 35.8 mm, width: 4.5 mm, height: 24.7 mm, color: gray



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## Insulating sleeve

Insulating sleeve - ISH 2,5/0,2 - 3002843

<https://www.phoenixcontact.com/de/produkte/3002843>

Insulating sleeve, color: white



# Plug - PP-H 2,5/ 8

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<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/ 2 - 3209691

<https://www.phoenixcontact.com/de/produkte/3209691>



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

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## Insulating sleeve

Insulating sleeve - ISH 2,5/0,5 - 3002856

<https://www.phoenixcontact.com/de/produkte/3002856>



Insulating sleeve, color: gray

# Plug - PP-H 2,5/ 8

3209934

<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/ 3 - 3209701

<https://www.phoenixcontact.com/de/produkte/3209701>



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

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## Insulating sleeve

Insulating sleeve - ISH 2,5/1,0 - 3002869

<https://www.phoenixcontact.com/de/produkte/3002869>



Insulating sleeve, color: black

# Plug - PP-H 2,5/ 8

3209934

<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/ 4 - 3209714

<https://www.phoenixcontact.com/de/produkte/3209714>



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

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## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642

<https://www.phoenixcontact.com/de/produkte/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

# Plug - PP-H 2,5/ 8

3209934

<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/ 5 - 3209727

<https://www.phoenixcontact.com/de/produkte/3209727>



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

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## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 5 CUS - 0825025

<https://www.phoenixcontact.com/de/produkte/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

# Plug - PP-H 2,5/ 8

3209934

<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/ 6 - 3209730

<https://www.phoenixcontact.com/de/produkte/3209730>



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

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## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671

<https://www.phoenixcontact.com/de/produkte/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

# Plug - PP-H 2,5/ 8

3209934

<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/ 7 - 3209743

<https://www.phoenixcontact.com/de/produkte/3209743>



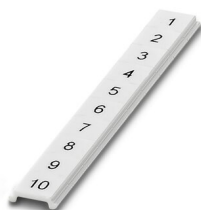
Cable housing, pitch: 36.4 mm, length: 19.9 mm, width: 36.4 mm, height: 36.8 mm, number of positions: 7, color: gray

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## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697

<https://www.phoenixcontact.com/de/produkte/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



# Plug - PP-H 2,5/ 8

3209934

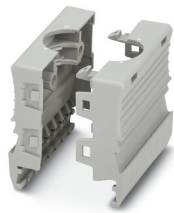
<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/ 8 - 3209756

<https://www.phoenixcontact.com/de/produkte/3209756>



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

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## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821

<https://www.phoenixcontact.com/de/produkte/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

# Plug - PP-H 2,5/ 8

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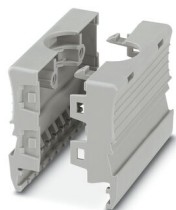
<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/ 9 - 3209507

<https://www.phoenixcontact.com/de/produkte/3209507>



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

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## Zack Marker strip, flat

Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863

<https://www.phoenixcontact.com/de/produkte/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

# Plug - PP-H 2,5/ 8

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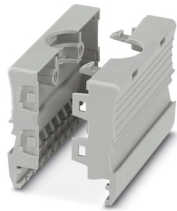
<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/10 - 3209769

<https://www.phoenixcontact.com/de/produkte/3209769>



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

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## Marker for terminal blocks

Marker for terminal blocks - UC-TMF 5 - 0818153

<https://www.phoenixcontact.com/de/produkte/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

# Plug - PP-H 2,5/ 8

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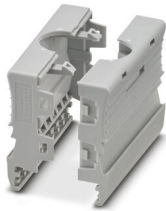
<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/11 - 3209772

<https://www.phoenixcontact.com/de/produkte/3209772>



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

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## Marker for terminal blocks

Marker for terminal blocks - UC-TMF 5 CUS - 0824638

<https://www.phoenixcontact.com/de/produkte/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

# Plug - PP-H 2,5/ 8

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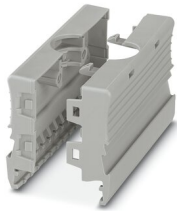
<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/12 - 3209785

<https://www.phoenixcontact.com/de/produkte/3209785>



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

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## Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 5 - 0828744

<https://www.phoenixcontact.com/de/produkte/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

# Plug - PP-H 2,5/ 8

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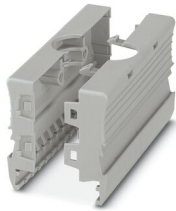
<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/13 - 3209798

<https://www.phoenixcontact.com/de/produkte/3209798>



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

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## Marker for terminal blocks

Marker for terminal blocks - UCT-TMF 5 CUS - 0829658

<https://www.phoenixcontact.com/de/produkte/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

# Plug - PP-H 2,5/ 8

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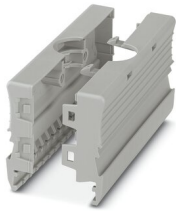
<https://www.phoenixcontact.com/de/produkte/3209934>



## Cable housing

Cable housing - PH 2,5/14 - 3209808

<https://www.phoenixcontact.com/de/produkte/3209808>



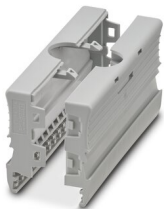
Cable housing, pitch: 72.8 mm, length: 19.9 mm, width: 72.8 mm, height: 36.8 mm, number of positions: 14, color: gray

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## Cable housing

Cable housing - PH 2,5/15 - 3209811

<https://www.phoenixcontact.com/de/produkte/3209811>



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

# Plug - PP-H 2,5/ 8

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<https://www.phoenixcontact.com/de/produkte/3209934>



## Flange cover

Flange cover - DFS-SP-H 2,5 - 3061431

<https://www.phoenixcontact.com/de/produkte/3061431>



Flange cover, length: 35.8 mm, width: 4.5 mm, height: 24.7 mm, color: gray

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## Actuation tool

Actuation tool - ST-BW - 1207608

<https://www.phoenixcontact.com/de/produkte/1207608>



Actuation tool, for all 2.5 mm<sup>2</sup> - 4.0 mm<sup>2</sup> spring-cages

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