

# PP-H 4/ 4 - Plug



3212029

<https://www.phoenixcontact.com/sg/products/3212029>

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: 800 V, nominal current: 32 A, number of connections: 4, number of positions: 4, connection method: Push-in connection, 1st level connection left, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: Plug-in mounting, 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	3212029
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	*****
Product key	BE2244
Catalog page	Page 327 (C-1-2019)
GTIN	4046356483087
Weight per piece (including packing)	19.34 g
Weight per piece (excluding packing)	18.34 g
Customs tariff number	85366990
Country of origin	PL

## Technical data

### Product properties

Product type	Terminal plug
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	4
Pitch	6.2 mm
Number of connections	4
Number of rows	1
Potentials	4

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.02 W

### Connection data

Number of connections per level	4
Nominal cross section	4 mm²

#### 1st level connection left

Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 61984
Conductor cross section rigid	0.2 mm² ... 6 mm²
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² ... 4 mm²
Conductor cross section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² ... 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1 mm²
Nominal current	32 A
Maximum load current	32 A (with 6 mm² conductor cross section)
Nominal voltage	800 V
Nominal cross section	4 mm²

#### 1st level connection left Connection cross sections directly pluggable

Conductor cross section rigid	0.5 mm² ... 6 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 4 mm²

# PP-H 4/ 4 - Plug

3212029

<https://www.phoenixcontact.com/sg/products/3212029>



Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
--	---

## Dimensions

Width	24.8 mm
Height	21 mm
Depth	42.3 mm
Pitch	6.2 mm

## Material specifications

Color	gray (RAL 7042)
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
-----------------	----

## 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, 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 (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

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

## Mounting

# PP-H 4/ 4 - Plug

3212029

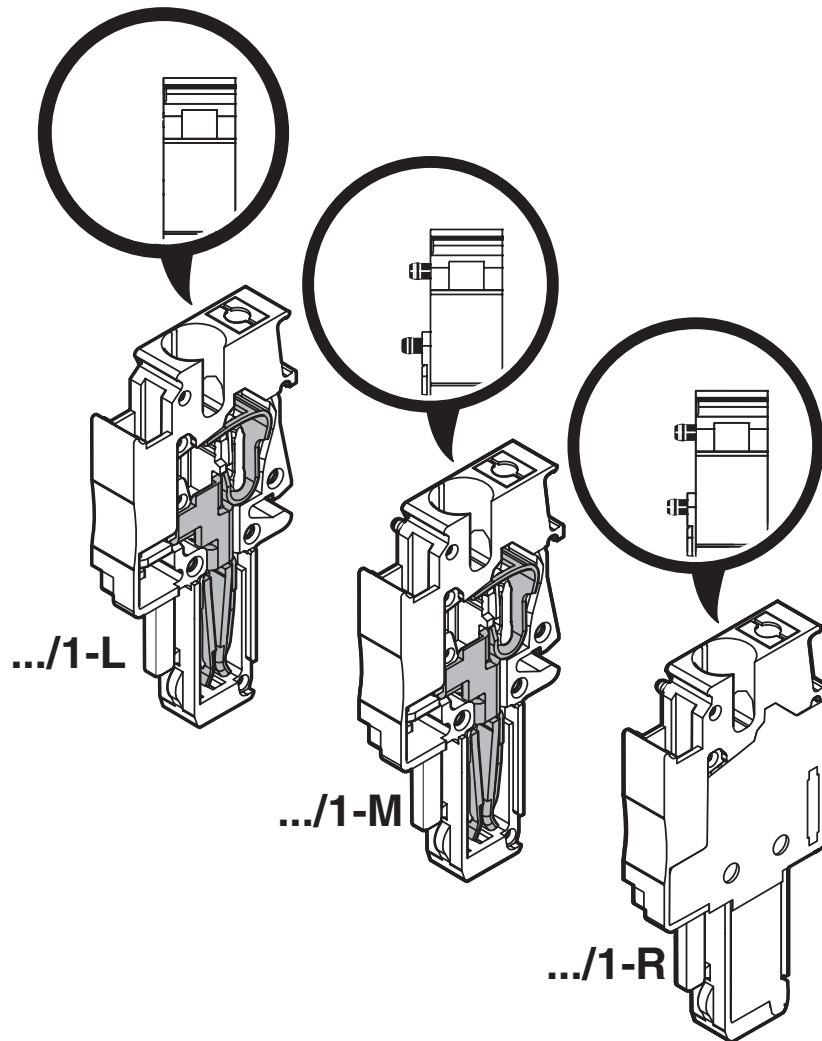
<https://www.phoenixcontact.com/sg/products/3212029>

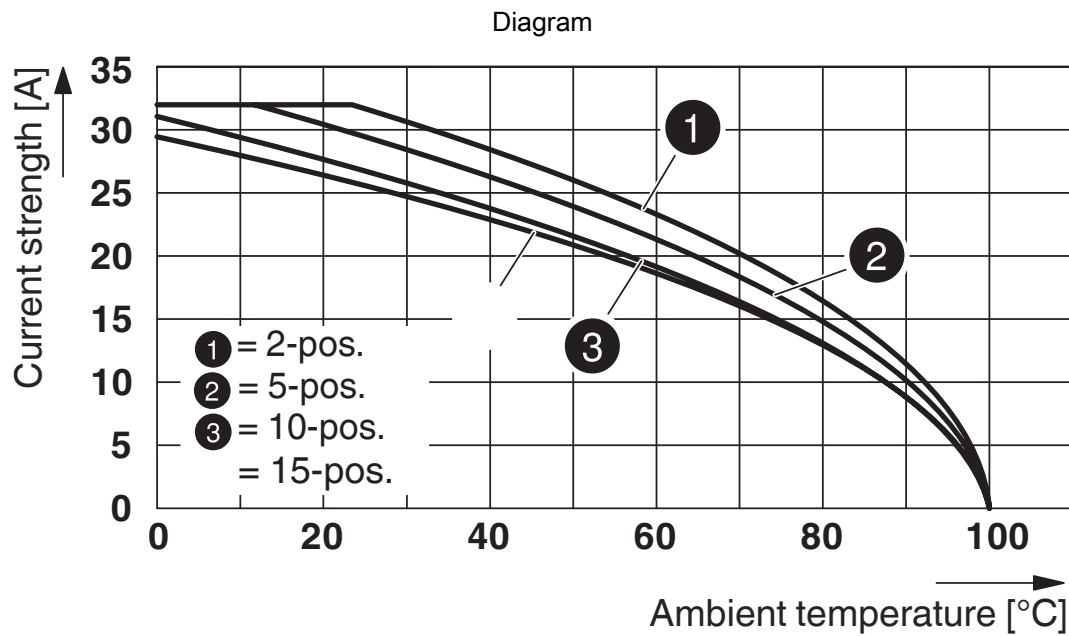


Mounting type	Plug-in mounting
---------------	------------------

## Drawings

Schematic diagram





Circuit diagram



# PP-H 4/ 4 - Plug



3212029

<https://www.phoenixcontact.com/sg/products/3212029>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3212029>

### DNV

Approval ID: TAE000010T



### IECEE CB Scheme

Approval ID: DE1-64672\_B1\_B2

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	800 V	32 A	-	-



### cULus Recognized

Approval ID: E60425



### BV

Approval ID: 39979/B0 BV



### VDE approval of drawings

Approval ID: 40043445

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Only flexible conductors	800 V	32 A	-	0.2 - 4



### cULus Recognized

Approval ID: E60425



### cULus Recognized

Approval ID: E60425



### EAC

Approval ID: EACKZ 08593

# PP-H 4/ 4 - Plug

3212029

<https://www.phoenixcontact.com/sg/products/3212029>



## 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 4/ 4 - Plug

3212029

<https://www.phoenixcontact.com/sg/products/3212029>



## 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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT SEA Pte. Ltd.  
105 Eunos Avenue 3, #04-00  
Singapore 409836  
+65 6228 4900  
[marketing@phoenixcontact.com.sg](mailto:marketing@phoenixcontact.com.sg)