

# PP-H 2,5/ 7 - Plug

3209921

<https://www.phoenixcontact.com/us/products/3209921>



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: 24 A, number of connections: 7, number of positions: 7, 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>, 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	3209921
Packing unit	25 pc
Minimum order quantity	25 pc
Sales key	BE22
Product key	BE2244
Catalog page	Page 298 (C-1-2019)
GTIN	4046356366816
Weight per piece (including packing)	24.039 g
Weight per piece (excluding packing)	23.599 g
Customs tariff number	85366990
Country of origin	PL

# PP-H 2,5/ 7 - Plug



3209921

<https://www.phoenixcontact.com/us/products/3209921>

## Technical data

### Product properties

Product type	Terminal plug
Number of positions	7
Pitch	5.2 mm
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	7
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	7
Nominal cross section	2.5 mm <sup>2</sup>

#### 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 <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	26 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without 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 rigid	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

# PP-H 2,5/ 7 - Plug



3209921

<https://www.phoenixcontact.com/us/products/3209921>

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

## Dimensions

Width	36.4 mm
Height	15.8 mm
Depth	40.2 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
-----------------	----

## 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

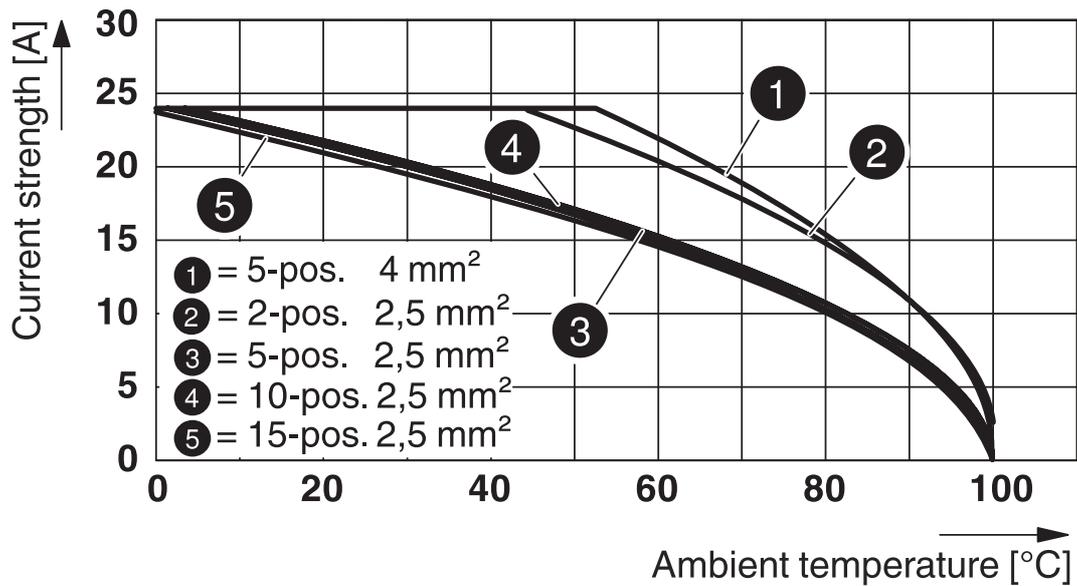
Connection in acc. with standard	IEC 61984
----------------------------------	-----------

## Drawings

### Circuit diagram



### Diagram



# PP-H 2,5/ 7 - Plug



3209921

<https://www.phoenixcontact.com/us/products/3209921>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3209921>

### 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



### RS

Approval ID: 22.44.01.00083.250



### BV

Approval ID: 25278/C1 BV

### ABS

Approval ID: 21-2192245-PDA



### LR

Approval ID: 14/20056

# PP-H 2,5/ 7 - Plug

3209921

<https://www.phoenixcontact.com/us/products/3209921>



**cULus Recognized**  
Approval ID: E60425

# PP-H 2,5/ 7 - Plug

3209921

<https://www.phoenixcontact.com/us/products/3209921>



## 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 2,5/ 7 - Plug

3209921

<https://www.phoenixcontact.com/us/products/3209921>



## Environmental product compliance

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

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](mailto:info@phoenixcon.com)