

PP-H 4/12 - Plug

3212080

<https://www.phoenixcontact.com/us/products/3212080>

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Plug, nom. voltage: 800 V, nominal current: 32 A, number of connections: 12, number of positions: 12, connection method: Push-in connection, Rated cross section: 4 mm², 1st level connection left, cross section: 0.2 mm² - 6 mm², 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	3212080
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE22
Product key	BE2244
GTIN	4046356483162
Weight per piece (including packing)	59 g
Weight per piece (excluding packing)	54.6 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

Notes on operation	COMBI connectors are connectors without switching power in accordance with IEC 61984 and can be connected or disconnected without load or voltage when used as intended
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Product properties

Product type	Terminal plug
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	12
Pitch	6.2 mm
Number of connections	12
Number of rows	1
Potentials	12

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	12
Nominal cross section	4 mm ²

1st level connection left

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

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Maximum load current	32 A (with 6 mm ² conductor cross-section)
Nominal voltage	800 V

1st level connection left Connection cross sections directly pluggable

Conductor cross-section rigid	0.5 mm ² ... 6 mm ²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 4 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm ² ... 4 mm ²

Dimensions

Width	74.4 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
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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, 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 %

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Permissible humidity (storage/transport)	30 % ... 70 %
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Standards and regulations

Connection in acc. with standard	IEC 61984
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Drawings

Schematic diagram



Diagram



Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3212080>

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 mm^2
keine				
	800 V	32 A	-	-



cULus Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
C				
	600 V	28 A	24 - 10	-



BV

Approval ID: 39979/B0 BV



VDE Zeichengenehmigung

Approval ID: 40043445

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only flexible conductors	800 V	32 A	-	0.2 - 4



EAC

Approval ID: KZ7500651131219505

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Classifications

ECLASS

ECLASS-13.0	27250306
ECLASS-15.0	27250306

ETIM

ETIM 10.0	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
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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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