

PPC 1,5/S/1-L - COMBI coupling



3213357

<https://www.phoenixcontact.com/us/products/3213357>

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COMBI coupling, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, Rated cross section: 1.5 mm², 1 level, cross section: 0.14 mm² - 1.5 mm², color: gray

Your advantages

- The Push-in technology COMBI couplings for self-assembly provide solutions that users can implement themselves
- For secure and space-saving accommodation of plug-in contacts in cable ducts and distributor shafts
- Tested for railway applications

Commercial data

Item number	3213357
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2245
GTIN	4046356566087
Weight per piece (including packing)	1.68 g
Weight per piece (excluding packing)	1.59 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Product properties

Product type	Terminal coupling
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	1
Pitch	3.5 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	0.56 W

Connection data

Nominal cross section	1.5 mm ²
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1 level

Connection method	Push-in connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1 / B1
Connection in acc. with standard	IEC 61984
Conductor cross-section rigid	0.14 mm ² ... 1.5 mm ²
Cross section AWG	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross-section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 1.5 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm ² ... 1 mm ²
Nominal cross section	1.5 mm ²
Nominal current	17.5 A
Maximum load current	17.5 A (with 1.5 mm ² conductor cross-section)
Nominal voltage	500 V

1 level Connection cross sections directly pluggable

Conductor cross-section rigid	0.25 mm ² ... 1.5 mm ²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm ² ... 1.5 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.34 mm ² ... 1 mm ²

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Dimensions

Width	3.5 mm
End cover width	2.2 mm
Height	27 mm
Depth	17.8 mm
Pitch	3.5 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	Yes
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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 %
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

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Drawings

Diagram



Circuit diagram



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Approvals

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 CSA Approval ID: 158887				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	300 V	15 A	26 - 14	-
C	300 V	15 A	26 - 14	-
D	600 V	5 A	26 - 14	-

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	300 V	15 A	26 - 14	-
C	300 V	15 A	26 - 14	-
D	600 V	5 A	26 - 14	-

 LR Approval ID: LR2371832TA	
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 NK Approval ID: 14ME0912	
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 BV Approval ID: 39979/B0 BV	
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DNV Approval ID: TAE000010T	
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 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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