

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



COMBI receptacle, Connection method: Push-in connection, Number of positions: 5, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 17.5 mm, Height: 17.8 mm, Color: gray

The figure shows a similar product

### Why buy this product

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

### Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
Weight per Piece (excluding packing)	8.400 g
Custom tariff number	85366990
Country of origin	Poland

### Technical data

#### General

Number of positions	5
Number of levels	1
Number of connections	1
Potentials	5
Nominal cross section	1.5 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry

# COMBI receptacle - PPC 1,5/S/ 5 - 3213412

## Technical data

### General

	Machine building
	Plant engineering
Maximum load current	13.5 A (with 1.5 mm <sup>2</sup> conductor cross section)
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	17.5 A (with 1.5 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	17.5 A
Nominal voltage U <sub>N</sub>	500 V
Open side panel	Yes
Insertion/withdrawal cycles mechanical	100
Result of surge voltage test	Test passed
Surge voltage test setpoint	7.3 kV
Short circuit stability result	Test passed
Conductor cross section short circuit testing	1.5 mm <sup>2</sup>
Short-time current	0.18 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

### Dimensions

Width	17.5 mm
-------	---------

# COMBI receptacle - PPC 1,5/S/ 5 - 3213412

## Technical data

### Dimensions

End cover width	2.2 mm
Length	27 mm
Height	17.8 mm
Pitch	3.5 mm

### Connection data

Connection method	Push-in connection
Connection in acc. with standard	IEC 61984
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	1 mm <sup>2</sup>
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1 / B1

### Standards and Regulations

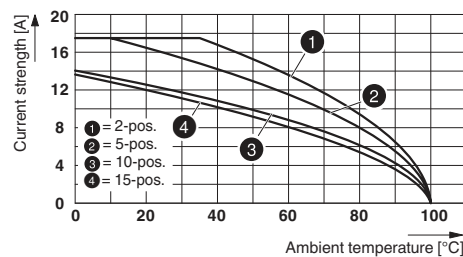
Connection in acc. with standard	CSA
	IEC 61984
Flammability rating according to UL 94	V0

## Drawings

### Circuit diagram



### Diagram



# COMBI receptacle - PPC 1,5/S/ 5 - 3213412

## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
eCl@ss 6.0	27141151
eCl@ss 7.0	27141151
eCl@ss 8.0	27141151
eCl@ss 9.0	27141151

### ETIM

ETIM 4.0	EC002021
ETIM 5.0	EC002021

### UNSPSC

UNSPSC 6.01	30211802
UNSPSC 7.0901	39121402
UNSPSC 11	39121402
UNSPSC 12.01	39121402
UNSPSC 13.2	39121402

## Approvals


### Approvals

#### Approvals

UL Recognized / cUL Recognized / LR / CSA / GL / EAC / BV / NK / cULus Recognized

#### Ex Approvals


### Approval details

UL Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 60425			
	B	C	D
mm <sup>2</sup> /AWG/kcmil	26-14	26-14	26-14
Nominal current IN	15 A	15 A	5 A

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412


### Approvals

	B	C	D
Nominal voltage UN	300 V	300 V	600 V

cUL Recognized  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 60425

	B	C	D
mm <sup>2</sup> /AWG/kcmil	26-14	26-14	26-14
Nominal current IN	15 A	15 A	5 A
Nominal voltage UN	300 V	300 V	600 V

LR <http://www.lr.org/en/12/20038> (E2)

CSA  <http://www.csagroup.org/us/en/services/testing-and-certification/certified-product-listing> 13631


	B	C	D
mm <sup>2</sup> /AWG/kcmil	26-14	26-14	26-14
Nominal current IN	15 A	15 A	5 A
Nominal voltage UN	300 V	300 V	600 V

GL <http://www.gl-group.com/newbuilding/approvals/index.html> 2040111 HH

EAC 7500651.22.01.00246

BV [http://www.veristar.com/wps/portal/lut/p/\\_s.7\\_0\\_A/7\\_0\\_RIM](http://www.veristar.com/wps/portal/lut/p/_s.7_0_A/7_0_RIM) 39979/A0 BV

NK <http://www.classnk.or.jp/hp/en> 14ME0912

cULus Recognized  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

### Accessories

Accessories

Cable housing

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

Cable housing - PH 1,5/S/3 - 3212756



Cable housing, Pitch: 10.5 mm, Length: 19.9 mm, Width: 10.5 mm, Height: 36.8 mm, Number of positions: 3, Color: gray

---

Cable housing - PH 1,5/S/4 - 3212769



Cable housing, Pitch: 14 mm, Length: 19.9 mm, Width: 14 mm, Height: 36.8 mm, Number of positions: 4, Color: gray

---

Cable housing - PH 1,5/S/5 - 3212772



Cable housing, Pitch: 17.5 mm, Length: 19.9 mm, Width: 17.5 mm, Height: 36.8 mm, Number of positions: 5, Color: gray

---

Cable housing - PH 1,5/S/6 - 3212785



Cable housing, Pitch: 21 mm, Length: 19.9 mm, Width: 21 mm, Height: 36.8 mm, Number of positions: 6, Color: gray

---

Cable housing - PH 1,5/S/7 - 3212798



Cable housing, Pitch: 24.5 mm, Length: 19.9 mm, Width: 24.5 mm, Height: 36.8 mm, Number of positions: 7, Color: gray

---

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

Cable housing - PH 1,5/S/8 - 3212808



Cable housing, Pitch: 28 mm, Length: 19.9 mm, Width: 28 mm, Height: 36.8 mm, Number of positions: 8, Color: gray

---

Cable housing - PH 1,5/S/9 - 3212811



Cable housing, Pitch: 31.5 mm, Length: 19.9 mm, Width: 31.5 mm, Height: 36.8 mm, Number of positions: 9, Color: gray

---

Cable housing - PH 1,5/S/10 - 3212824



Cable housing, Pitch: 35 mm, Length: 19.9 mm, Width: 35 mm, Height: 36.8 mm, Number of positions: 10, Color: gray

---

Cable housing - PH 1,5/S/11 - 3212837



Cable housing, Pitch: 38.5 mm, Length: 19.9 mm, Width: 38.5 mm, Height: 36.8 mm, Number of positions: 11, Color: gray

---

Cable housing - PH 1,5/S/12 - 3212840



Cable housing, Pitch: 42 mm, Length: 19.9 mm, Width: 42 mm, Height: 36.8 mm, Number of positions: 12, Color: gray

---

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

Cable housing - PH 1,5/S/13 - 3212853



Cable housing, Pitch: 45.5 mm, Length: 19.9 mm, Width: 45.5 mm, Height: 36.8 mm, Number of positions: 13, Color: gray

---

Cable housing - PH 1,5/S/14 - 3212866



Cable housing, Pitch: 49 mm, Length: 19.9 mm, Width: 49 mm, Height: 36.8 mm, Number of positions: 14, Color: gray

---

### Coding element

Coding star - PC - 3040588



Coding star, Length: 3 mm, Width: 3 mm, Height: 6 mm, Color: red

---

### End cover

End cover - D-PPC 1,5/S - 3213690



End cover, Length: 27 mm, Width: 2.2 mm, Color: gray

---

### Insulating sleeve



## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

---

Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

---

Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

---

Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

---

Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

---

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

---

Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

---

### Labeled terminal marker

Zack Marker strip, flat - ZBF 3,5 CUS - 0829394



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: 3.5 mm, Lettering field: 3.5 x 5.2 mm

---

Zack Marker strip, flat - ZBF 3,5,LGS:FORTL.ZAHLEN - 0801406



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 5.15 x 3.5 mm

---

Zack Marker strip, flat - ZBF 3,5,QR:FORTL.ZAHLEN - 0801407



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 5.15 x 3.5 mm

---

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

Marker for terminal blocks - UCT-TMF 3,5 CUS - 0829644



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: 3.5 mm, Lettering field: 2.7 x 4.7 mm

---

### Screwdriver tools

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

---

Screwdriver - ST-BW 0 - 1200135



Actuation tool, for all 1.5 mm<sup>2</sup> spring cages from PT 1,5/S and FT 1,5/S

---

### Terminal marking

Zack Marker strip, flat - ZBF 3,5:UNBEDRUCKT - 0829392



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 3.5 x 5.2 mm

---

Marker for terminal blocks - UCT-TMF 3,5 - 0829486



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, THERMOMARK PRIME, Mounting type: Snap into flat marker groove, for terminal block width: 3.5 mm, Lettering field: 2.7 x 4.7 mm

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

---

Test plug terminal block

Test plugs - MPS-MT - 0201744



Test plugs, Color: silver

---

### Additional products

Plug - PP-H 1,5/S/1 - 3212484



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: gray

---

Plug - PP-H 1,5/S/1 BU - 3212497



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: blue

---

Plug - PP-H 1,5/S/1 GNYE - 3212507



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: green-yellow

---

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

#### Plug - PP-H 1,5/S/2 - 3212510



Plug, Connection method: Push-in connection, Number of positions: 2, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 7 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/3 - 3212523



Plug, Connection method: Push-in connection, Number of positions: 3, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 10.5 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/4 - 3212536



Plug, Connection method: Push-in connection, Number of positions: 4, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 14 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/5 - 3212549



Plug, Connection method: Push-in connection, Number of positions: 5, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 17.5 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/6 - 3212552



Plug, Connection method: Push-in connection, Number of positions: 6, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 21 mm, Height: 31.3 mm, Color: gray

---

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

#### Plug - PP-H 1,5/S/7 - 3212565



Plug, Connection method: Push-in connection, Number of positions: 7, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 24.5 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/8 - 3212578



Plug, Connection method: Push-in connection, Number of positions: 8, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 28 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/9 - 3212581



Plug, Connection method: Push-in connection, Number of positions: 9, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 31.5 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/10 - 3212594



Plug, Connection method: Push-in connection, Number of positions: 10, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 35 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/11 - 3212604



Plug, Connection method: Push-in connection, Number of positions: 11, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 38.5 mm, Height: 31.3 mm, Color: gray

---

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

#### Plug - PP-H 1,5/S/12 - 3212617



Plug, Connection method: Push-in connection, Number of positions: 12, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 42 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/13 - 3212620



Plug, Connection method: Push-in connection, Number of positions: 13, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 45.5 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/14 - 3212633



Plug, Connection method: Push-in connection, Number of positions: 14, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 49 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/15 - 3212646



Plug, Connection method: Push-in connection, Number of positions: 15, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 52.5 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/1-L - 3212659



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: gray

---

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

Plug - PP-H 1,5/S/1-L BU - 3212662



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: blue

---

Plug - PP-H 1,5/S/1-L GNYE - 3212675



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: green-yellow

---

Plug - PP-H 1,5/S/1-M - 3212688



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: gray

---

Plug - PP-H 1,5/S/1-M BU - 3212691



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: blue

---

Plug - PP-H 1,5/S/1-M GNYE - 3212701



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: green-yellow

---



## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

#### Plug - PP-H 1,5/S/1-R - 3212714



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: gray

---

#### Plug - PP-H 1,5/S/1-R BU - 3212727



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: blue

---

#### Plug - PP-H 1,5/S/1-R GNYE - 3212730



Plug, Connection method: Push-in connection, Number of positions: 1, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Height: 31.3 mm, Color: green-yellow

---

#### Strain relief - PZ 1,5/S/2 - 3212918



Strain relief, Number of positions: 2, Color: black

---

#### Latching - PRZ 1,5/S - 3212905



Latching, Length: 3 mm, Width: 3.5 mm, Color: orange

---

## COMBI receptacle - PPC 1,5/S/ 5 - 3213412

### Accessories

Latching - PR 1,5/S/2 - 3212895



Latching, Color: orange

---

Latching - PR 1,5/S - 3212882



Latching, Color: orange

---

---