

## COMBI receptacle - PPC 6/2 - 3000693

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COMBI receptacle, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in / plug connection, number of connections: 2, number of positions: 2, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 16.4 mm, height: 24.7 mm, 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



### Key Commercial Data

Packing unit	25 pc
GTIN	 4 046356 751841
GTIN	4046356751841

### Technical data

#### General

Number of positions	2
Number of levels	1
Number of connections	2
Potentials	2
Nominal cross section	6 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Machine building
	Plant engineering
Maximum load current	41 A (with 6 mm <sup>2</sup> conductor cross section)
Rated surge voltage	8 kV

# COMBI receptacle - PPC 6/2 - 3000693

## Technical data

### General

Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	1.31 W
Maximum load current	41 A (with 6 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	41 A (observe derating)
Nominal voltage U <sub>N</sub>	1000 V
Open side panel	Yes
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
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	16.4 mm
End cover width	2.2 mm
Length	47 mm
Height	24.7 mm
Pitch	8.2 mm

### Connection data

Connection	1 level
Connection method	Push-in / plug connection
Stripping length	12 mm
Connection in acc. with standard	IEC 61984
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section AWG min.	20
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.5 mm <sup>2</sup>
Conductor cross section flexible max.	6 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm <sup>2</sup>

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## Technical data

### Connection data

Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm <sup>2</sup>
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum	0.5 mm <sup>2</sup>
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum	1.5 mm <sup>2</sup>
Connection cross sections directly pluggable	1 mm <sup>2</sup> 10 mm <sup>2</sup>
Conductor cross section solid min.	1 mm <sup>2</sup>
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	1 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	1 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm <sup>2</sup>
Internal cylindrical gage	A5

### Standards and Regulations

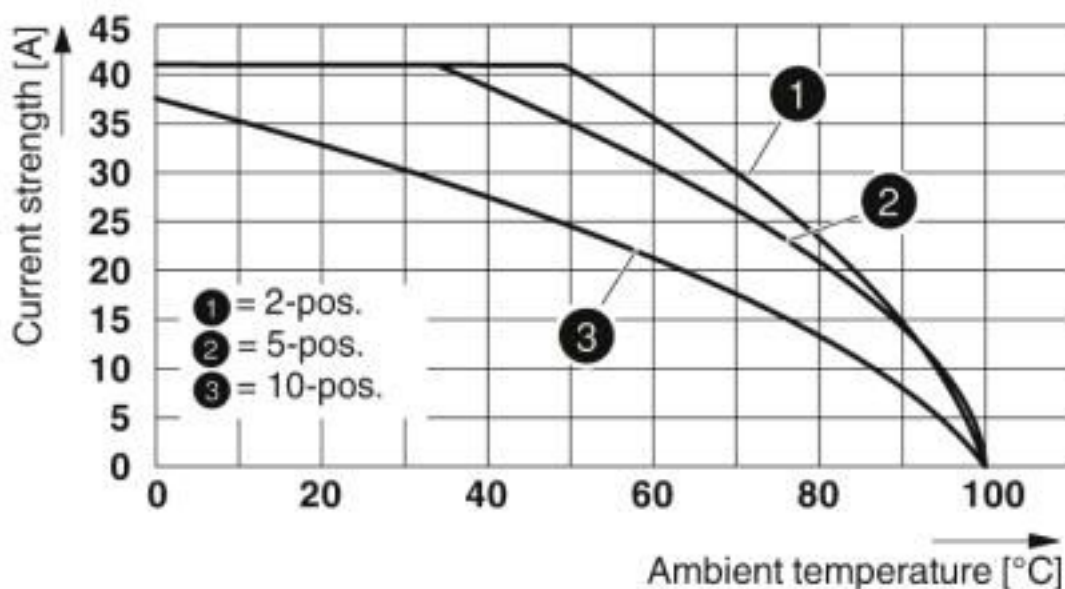
Connection in acc. with standard	IEC 61984
Flammability rating according to UL 94	V0

### Environmental Product Compliance

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

## Drawings

Diagram



# COMBI receptacle - PPC 6/2 - 3000693

Circuit diagram



## Classifications

### eCl@ss

eCl@ss 10.0.1	27141151
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27141100
eCl@ss 7.0	27141151
eCl@ss 8.0	27141151
eCl@ss 9.0	27141151

### ETIM

ETIM 3.0	EC000897
ETIM 4.0	EC002021
ETIM 5.0	EC002021
ETIM 6.0	EC002021
ETIM 7.0	EC002021

### UNSPSC

UNSPSC 6.01	30211802
UNSPSC 7.0901	39121402
UNSPSC 11	39121402
UNSPSC 12.01	39121402
UNSPSC 13.2	39121402
UNSPSC 18.0	39121402
UNSPSC 19.0	39121402
UNSPSC 20.0	39121402
UNSPSC 21.0	39121402

# COMBI receptacle - PPC 6/2 - 3000693

## Approvals

### Approvals

#### Approvals

DNV GL / CSA / BV / LR / UL Recognized / cUL Recognized / IECEE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / EAC / cULus Recognized

#### Ex Approvals

### Approval details

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE000015D
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CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	13631
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	36 A	36 A	
mm <sup>2</sup> /AWG/kcmil	20-8	20-8	

BV		<a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a>	45602/A0
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LR		<a href="http://www.lr.org/en">http://www.lr.org/en</a>	16/20057
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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	
Nominal voltage UN	600 V	600 V	
Nominal current IN	40 A	40 A	
mm <sup>2</sup> /AWG/kcmil	20-8	20-8	

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## Approvals

cUL 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
Nominal voltage UN		600 V	600 V
Nominal current IN		40 A	40 A
mm <sup>2</sup> /AWG/kcmil		20-8	20-8

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-56601/B1
Nominal voltage UN		1000 V	

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40043445
Nominal voltage UN		1000 V	

EAC		RU C-DE.A*30.B.01742
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EAC		RU C-DE.BL08.B.00511
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cULus Recognized		
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## Accessories

Accessories

Coding element

Coding star - PC - 3040588



Coding star, length: 3 mm, width: 3 mm, height: 6 mm, color: red

## COMBI receptacle - PPC 6/2 - 3000693

### Accessories

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#### End cover

End cover - D-PPC 6 - 3000703



End cover, length: 47 mm, width: 2.2 mm, height: 24.7 mm, color: gray

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#### Insulating sleeve

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



## COMBI receptacle - PPC 6/2 - 3000693

### Accessories

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



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 8 CUS - 0825030



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: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

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Zack Marker strip, flat - ZBF 8,LGS:FORTL.ZAHLEN - 0808804



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 101 ... 110, mounting type: snap into flat marker groove, for terminal block width: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

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## COMBI receptacle - PPC 6/2 - 3000693

### Accessories

#### Marker for terminal blocks - UC-TMF 8 CUS - 0824654



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: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

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#### Marker for terminal blocks - UCT-TMF 8 CUS - 0829672



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: 8.2 mm, lettering field size: 7.4 x 4.7 mm, Number of individual labels: 42

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### Screwdriver tools

#### Screwdriver - SZF 2-0,8X4,0 - 1204520



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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### Terminal marking

#### Zack Marker strip, flat - ZBF 8:UNBEDRUCKT - 0808781



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

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#### Marker for terminal blocks - UC-TMF 8 - 0818137



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

## COMBI receptacle - PPC 6/2 - 3000693

### Accessories

#### Marker for terminal blocks - UCT-TMF 8 - 0828748



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into flat marker groove, for terminal block width: 8.2 mm, lettering field size: 7.4 x 4.7 mm, Number of individual labels: 42

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#### Test plug terminal block

#### Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, color: gray

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#### Necessary add-on products

#### Plug - PP-H 6/ 1 - 3061541



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: gray

---

#### Plug - PP-H 6/ 1 BU - 3061554



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: blue

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#### Plug - PP-H 6/ 1 GNYE - 3061567



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: green-yellow

## COMBI receptacle - PPC 6/2 - 3000693

### Accessories

#### Plug - PP-H 6/10 - 3061651



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 10, number of positions: 10, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 82 mm, height: 49.3 mm, color: gray

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#### Plug - PP-H 6/ 1-L - 3061664



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: gray

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#### Plug - PP-H 6/ 1-L BU - 3061677



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: blue

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#### Plug - PP-H 6/ 1-L GNYE - 3061680



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: green/yellow

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#### Plug - PP-H 6/ 1-M - 3061693



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: gray

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## COMBI receptacle - PPC 6/2 - 3000693

### Accessories

#### Plug - PP-H 6/ 1-M BU - 3061703



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: blue

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#### Plug - PP-H 6/ 1-M GNYE - 3061716



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: green/yellow

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#### Plug - PP-H 6/ 1-R - 3061729



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: gray

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#### Plug - PP-H 6/ 1-R BU - 3061732



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: blue

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#### Plug - PP-H 6/ 1-R GNYE - 3061745



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: green/yellow

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## COMBI receptacle - PPC 6/2 - 3000693

### Accessories

#### Plug - PP-H 6/ 2 - 3061570



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 2, number of positions: 2, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 16.4 mm, height: 49.3 mm, color: gray

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#### Plug - PP-H 6/ 3 - 3061583



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 3, number of positions: 3, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 24.6 mm, height: 49.3 mm, color: gray

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#### Plug - PP-H 6/ 4 - 3061596



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 4, number of positions: 4, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 32.8 mm, height: 49.3 mm, color: gray

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#### Plug - PP-H 6/ 5 - 3061606



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 5, number of positions: 5, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 41 mm, height: 49.3 mm, color: gray

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#### Plug - PP-H 6/ 6 - 3061619



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 6, number of positions: 6, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 49.2 mm, height: 49.3 mm, color: gray

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## COMBI receptacle - PPC 6/2 - 3000693

### Accessories

#### Plug - PP-H 6/ 7 - 3061622



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 7, number of positions: 7, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 57.4 mm, height: 49.3 mm, color: gray

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#### Plug - PP-H 6/ 8 - 3061635



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 8, number of positions: 8, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 65.6 mm, height: 49.3 mm, color: gray

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#### Plug - PP-H 6/ 9 - 3061648



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 9, number of positions: 9, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 73.8 mm, height: 49.3 mm, color: gray

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#### Strain relief - PZ/2 - 3040627



Strain relief, length: 48.7 mm, width: 9.3 mm, number of positions: 2, color: black

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

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