

PPC 6/1-L - COMBI coupling

3000690

<https://www.phoenixcontact.com/us/products/3000690>



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COMBI coupling, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 2, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 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	3000690
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2245
Catalog page	Page 350 (C-1-2019)
GTIN	4046356751797
Weight per piece (including packing)	7.952 g
Weight per piece (excluding packing)	7.94 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	8.2 mm
Number of connections	2
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.31 W

Connection data

Nominal cross section	6 mm ²
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1 level

Stripping length	12 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 61984
Conductor cross section rigid	0.5 mm ² ... 10 mm ²
Cross section AWG	20 ... 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 6 mm ²
Conductor cross section, flexible [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 6 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 6 mm ²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1.5 mm ²
Nominal current	41 A (observe derating)
Maximum load current	41 A (with 6 mm ² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	6 mm ²

1 level Connection cross sections directly pluggable

Conductor cross section rigid	1 mm ² ... 10 mm ²
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Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm² ... 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm² ... 6 mm²

Dimensions

Width	8.2 mm
End cover width	2.2 mm
Height	47 mm
Depth	24.7 mm
Pitch	8.2 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))	125 °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)	27,5 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, 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
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Mounting

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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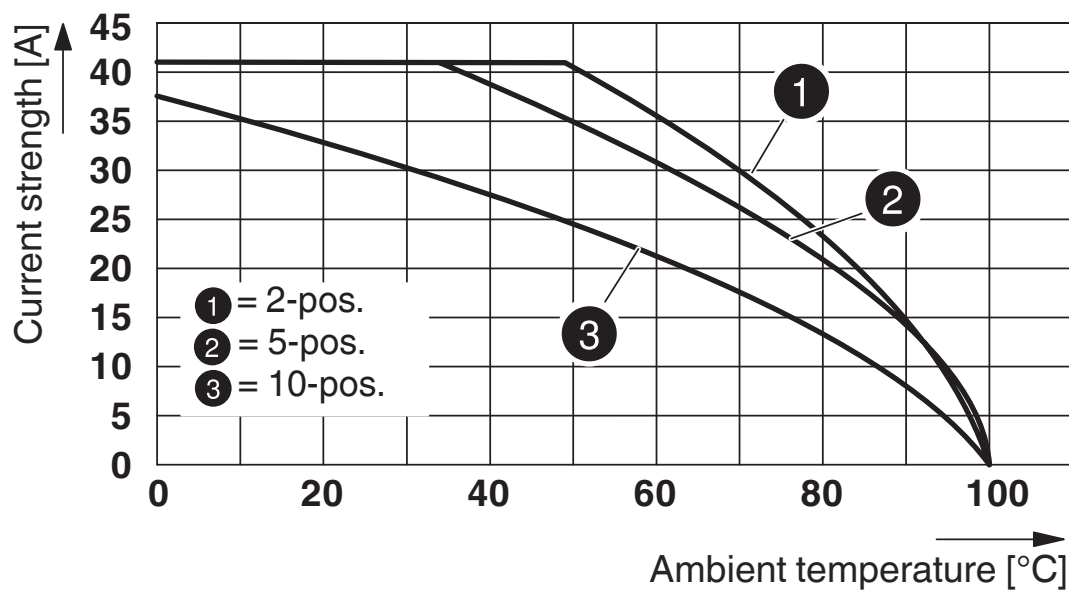


Drawings

Circuit diagram



Diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3000690>

DNV

Approval ID: TAE000015D



CSA

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	600 V	36 A	20 - 8	-
Use group C				
	600 V	36 A	20 - 8	-



IECEE CB Scheme

Approval ID: DE1-64372_B1_B2

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	1000 V	-	-	-



EAC

Approval ID: RU C-DE.BL08.B.00511



cULus Recognized

Approval ID: E60425



VDE Zeichengenehmigung

Approval ID: 40043445

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	1000 V	-	-	0.5 - 6



cULus Recognized

Approval ID: E60425

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Classifications

ECLASS

ECLASS-11.0	27141151
ECLASS-12.0	27141151
ECLASS-13.0	27250306

ETIM

ETIM 9.0	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
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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Mandatory accessories

PP-H 6/ 1 - Plug

3061541

<https://www.phoenixcontact.com/us/products/3061541>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PP-H 6/ 1 BU - Plug

3061554

<https://www.phoenixcontact.com/us/products/3061554>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: blue

PPC 6/1-L - COMBI coupling

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PP-H 6/ 1 GNYE - Plug

3061567

<https://www.phoenixcontact.com/us/products/3061567>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: green-yellow

PP-H 6/10 - Plug

3061651

<https://www.phoenixcontact.com/us/products/3061651>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 10, number of positions: 10, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PPC 6/1-L - COMBI coupling

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<https://www.phoenixcontact.com/us/products/3000690>



PP-H 6/ 1-L - Plug

3061664

<https://www.phoenixcontact.com/us/products/3061664>



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PP-H 6/ 1-L BU - Plug

3061677

<https://www.phoenixcontact.com/us/products/3061677>



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: blue

PPC 6/1-L - COMBI coupling

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PP-H 6/ 1-L GNYE - Plug

3061680

<https://www.phoenixcontact.com/us/products/3061680>



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: green/yellow

PP-H 6/ 1-M - Plug

3061693

<https://www.phoenixcontact.com/us/products/3061693>



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PPC 6/1-L - COMBI coupling

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PP-H 6/ 1-M BU - Plug

3061703

<https://www.phoenixcontact.com/us/products/3061703>



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: blue

PP-H 6/ 1-M GNYE - Plug

3061716

<https://www.phoenixcontact.com/us/products/3061716>



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: green/yellow

PPC 6/1-L - COMBI coupling

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PP-H 6/ 1-R - Plug

3061729

<https://www.phoenixcontact.com/us/products/3061729>



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PP-H 6/ 1-R BU - Plug

3061732

<https://www.phoenixcontact.com/us/products/3061732>



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: blue

PPC 6/1-L - COMBI coupling

3000690

<https://www.phoenixcontact.com/us/products/3000690>



PP-H 6/ 1-R GNYE - Plug

3061745

<https://www.phoenixcontact.com/us/products/3061745>



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: green/yellow

PP-H 6/ 2 - Plug

3061570

<https://www.phoenixcontact.com/us/products/3061570>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 2, number of positions: 2, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PPC 6/1-L - COMBI coupling

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<https://www.phoenixcontact.com/us/products/3000690>



PP-H 6/ 3 - Plug

3061583

<https://www.phoenixcontact.com/us/products/3061583>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 3, number of positions: 3, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PP-H 6/ 4 - Plug

3061596

<https://www.phoenixcontact.com/us/products/3061596>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 4, number of positions: 4, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PPC 6/1-L - COMBI coupling



3000690

<https://www.phoenixcontact.com/us/products/3000690>

PP-H 6/ 5 - Plug

3061606

<https://www.phoenixcontact.com/us/products/3061606>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 5, number of positions: 5, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PP-H 6/ 6 - Plug

3061619

<https://www.phoenixcontact.com/us/products/3061619>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 6, number of positions: 6, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PPC 6/1-L - COMBI coupling

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PP-H 6/ 7 - Plug

3061622

<https://www.phoenixcontact.com/us/products/3061622>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 7, number of positions: 7, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PP-H 6/ 8 - Plug

3061635

<https://www.phoenixcontact.com/us/products/3061635>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 8, number of positions: 8, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PPC 6/1-L - COMBI coupling

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<https://www.phoenixcontact.com/us/products/3000690>



PP-H 6/ 9 - Plug

3061648

<https://www.phoenixcontact.com/us/products/3061648>



Plug, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 9, number of positions: 9, connection method: Push-in connection, 1 level, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², color: gray

PZ/2 - Strain relief

3040627

<https://www.phoenixcontact.com/us/products/3040627>



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

Accessories

PPC 6/1-L - COMBI coupling

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<https://www.phoenixcontact.com/us/products/3000690>



D-PPC 6 - End cover

3000703

<https://www.phoenixcontact.com/us/products/3000703>

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



PC - Coding star

3040588

<https://www.phoenixcontact.com/us/products/3040588>

Coding star, 4-section, depth: 6 mm, width: 3 mm, height: 3 mm, color: red



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ZBF 8:UNBEDRUCKT - Zack Marker strip, flat

0808781

<https://www.phoenixcontact.com/us/products/0808781>



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

ZBF 8 CUS - Zack Marker strip, flat

0825030

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

PPC 6/1-L - COMBI coupling

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

0808804

<https://www.phoenixcontact.com/us/products/0808804>



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

UC-TMF 8 - Marker for terminal blocks

0818137

<https://www.phoenixcontact.com/us/products/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: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

PPC 6/1-L - COMBI coupling

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UC-TMF 8 CUS - Marker for terminal blocks

0824654

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

UCT-TMF 8 - Marker for terminal blocks

0828748

<https://www.phoenixcontact.com/us/products/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: snapped, for terminal block width: 8.2 mm, lettering field size: 7.4 x 4.7 mm, Number of individual labels: 42

PPC 6/1-L - COMBI coupling

3000690

<https://www.phoenixcontact.com/us/products/3000690>



UCT-TMF 8 CUS - Marker for terminal blocks

0829672

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

MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plug, with solder connection up to 1 mm² conductor cross section, number of positions: 1, color: gray

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MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



MPS-IH RD - Insulating sleeve

0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red



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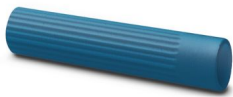


MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



MPS-IH YE - Insulating sleeve

0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



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MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



MPS-IH GY - Insulating sleeve

0201728

<https://www.phoenixcontact.com/us/products/0201728>

Insulating sleeve, color: gray



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<https://www.phoenixcontact.com/us/products/3000690>



MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



SZF 2-0,8X4,0 - Screwdriver

1204520

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