1410629

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PHŒNIX CONTACT

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Coupler connector, Range of articles: PRC 35, design: Can only be released with a tool, housing material: PPE, color: black, number of positions: 5, min. conductor cross section: 1.5 mm², max. conductor cross section: 6 mm², rated voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Contact connection type: Socket, min. cable diameter: 8 mm, max. cable diameter: 12 mm. Variant for release with a tool

Your advantages

- Up to 75% smaller in size than industrial connectors with the same rating
- · Locking mechanism can be unlocked manually or using a tool
- · Suitable for applications in atmospheres containing salt and in direct sunlight
- · Ideal for indoor and outdoor use due to weatherproof materials

Commercial data

Item number	1410629
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AB03
Product key	ABLCBA
Catalog page	Page 76 (NTK-2014)
GTIN	4046356904223
Weight per piece (including packing)	92.6 g
Weight per piece (excluding packing)	92.6 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

General	Variant for release with a tool
Safety note	
Safety note	WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	 WARNING: Only electrically qualified personnel may install an operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	 Assembled products may not be manipulated or improperly opened.
	 Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	 When using the product in direct connection with third-party manufacturers, the user is responsible.
	 For operating voltages > 50 V AC, conductive connector housings must be grounded
	 Ensure that the protective or functional ground has been properly connected.
	 VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/o connector
	 Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	Only use tools recommended by Phoenix Contact
	 The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	 Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	 Operate the connector only when it is fully plugged in.
	 Operate the connector only when it is fully plugged in and interlocked.
	 Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.



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• Observe the minimum bending radius of the cable. Lay the cable without twisting it.

• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Product properties

Product type	Installation connector	
Product family	PRC 35	
Туре	Can only be released with a tool	
Number of positions	5	
Connection profile	4+PE	
Coding	AD	
Insulation characteristics		
Protection class	II	
Degree of pollution	2	

Electrical properties

Rated voltage (III/2)	690 V
Nominal voltage ATD	690 V AC in accordance with IEC 61984
	500 V AC in accordance with IEC 61535/2 PfG 1915
	600 V AC In accordance with UL 2238
Rated surge voltage (III/2)	8 kV
Rated current	35 A (With 6 mm ² conductor cross section in accordance with IEC 61984)
	32 A (With 6 mm ² conductor cross section in accordance with IEC 61535)
	21.4 A (With 6 mm ² conductor cross section and 85 °C in accordance with 2 PfG 1915)
	28 A (with AWG 10, in accordance with UL 2237)

Connection data

Conductor connection	
Conductor cross section	1.5 mm ² 6 mm ²

Dimensions

Dimensional drawing	
Width	37.6 mm
Height	37.6 mm
Length	107.5 mm



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Outside diameter

8 mm	12 mm		
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Material specifications

ColorblackColor of the housing partblackFlammability rating according to UL 94V0Insulating material group1/ CTI 600Seal materialEPDMHousing materialPPECable seal materialEPDMContact materialCu alloyContact surface materialsilver-platedContact carrier materialPPEContact carrier materialPPEMaterial for screw connectionPPE		
Flammability rating according to UL 94V0Insulating material groupI / CTI 600Seal materialEPDMHousing materialPPECable seal materialEPDMContact materialCu alloyContact surface materialsilver-platedContact carrier materialPPEO-ring materialEPDM	Color	black
Insulating material groupI / CTI 600Seal materialEPDMHousing materialPPECable seal materialEPDMContact materialCu alloyContact surface materialsilver-platedContact carrier materialPPEO-ring materialEPDM	Color of the housing part	black
Seal materialEPDMHousing materialPPECable seal materialEPDMContact materialCu alloyContact surface materialsilver-platedContact carrier materialPPEO-ring materialEPDM	Flammability rating according to UL 94	V0
Housing materialPPECable seal materialEPDMContact materialCu alloyContact surface materialsilver-platedContact carrier materialPPEO-ring materialEPDM	Insulating material group	I / CTI 600
Cable seal materialEPDMContact materialCu alloyContact surface materialsilver-platedContact carrier materialPPEO-ring materialEPDM	Seal material	EPDM
Contact material Cu alloy Contact surface material silver-plated Contact carrier material PPE O-ring material EPDM	Housing material	PPE
Contact surface material silver-plated Contact carrier material PPE O-ring material EPDM	Cable seal material	EPDM
Contact carrier material PPE O-ring material EPDM	Contact material	Cu alloy
O-ring material EPDM	Contact surface material	silver-plated
	Contact carrier material	PPE
Material for screw connection PPE	O-ring material	EPDM
	Material for screw connection	PPE

Connector

Cable/line

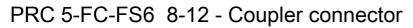
External cable diameter ()	8 mm 12 mm
External cable diameter	8 mm 12 mm
Single wire, cross section	1.5 mm ² 6 mm ²
Stripping length of the individual wire	12 mm (Lay PE conductor 8 mm leading)

Mechanical properties

Insertion/withdrawal cycles	100
Insertion force	40 N ±10 N

Environmental and real-life conditions

Ambient conditions		
Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K	
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K	
	IP66 / IP68 (2m / 24h) / IP69K	
Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)	
Ambient temperature (storage/transport)	-40 °C 70 °C	

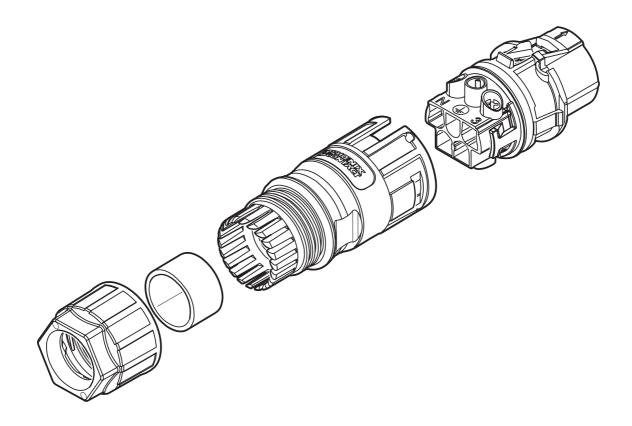


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Drawings

Schematic diagram



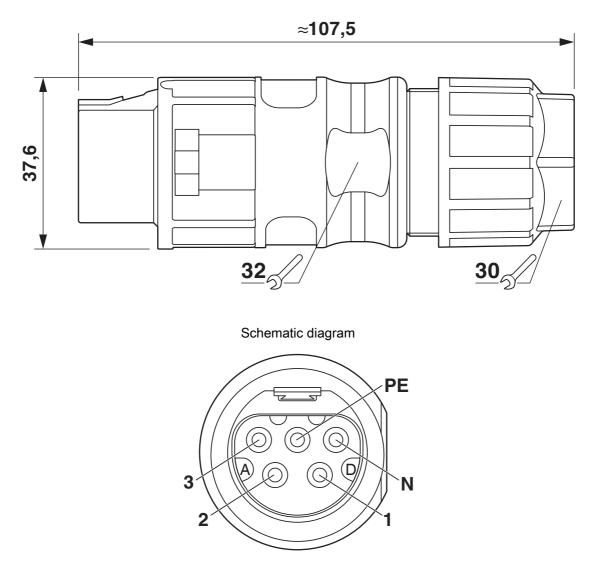
Schematic design



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Dimensional drawing



Connector pin assignment

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Classifications

ECLASS

	ECLASS-11.0	27440102		
ETIM				
	ETIM 8.0	EC002635		
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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Accessories

PRC COVER F - Protective cap

1409236 https://www.phoenixcontact.com/us/products/1409236



Protective cap, Range of articles: PRC 35, housing material: PPE, color: black, rated voltage: 1000. Suitable for couplings (FS)

SZF 1-0,6X3,5 - Screwdriver

1204517 https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

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SZF 0-0,4X2,5 - Screwdriver

1204504

https://www.phoenixcontact.com/us/products/1204504



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

SF-PH 1-80 S-VDE - Screwdriver

1212693 https://www.phoenixcontact.com/us/products/1212693



Screwdriver, crosshead PH (lasered), insulated, size: PH 1 x 80, 2-component handle, with non-slip grip

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UNIFOX-WRENCH - Screw pliers

1212835

https://www.phoenixcontact.com/us/products/1212835



Screw pliers, with fast adjustment, for wrench size 10 mm \ldots 36 mm, size: 260 mm

PRC 5-FC-MS6 8-21 - Connector

1014530 https://www.phoenixcontact.com/us/products/1014530



Connector, Range of articles: PRC 35, design: Release with tool or by hand (see accessories), housing material: PPE, color: black, number of positions: 5, min. conductor cross section: 1.5 mm², max. conductor cross section: 6 mm², rated voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Contact connection type: Pin, min. cable diameter: 8 mm, max. cable diameter: 21 mm. Ensures touch protection

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