1410659

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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: 3, 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: 16 mm, max. cable diameter: 21 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	1410659
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AB03
Product key	ABLCBA
Catalog page	Page 76 (NTK-2014)
GTIN	4046356904261
Weight per piece (including packing)	78 g
Weight per piece (excluding packing)	74.9 g
Customs tariff number	85366990
Country of origin	PL

1410659

https://www.phoenixcontact.com/us/products/1410659



Technical data

Order information:	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: On the product On the packing label In the supplied documentation 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.



1410659

https://www.phoenixcontact.com/us/products/1410659

• 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	3
Connection profile	2+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)
	32 A (with AWG 10, in accordance with UL 2237)

Connection data

Conductor connection	
Conductor cross section	1.5 mm² 6 mm²

Dimensions

Dimensional drawing	
Width	37.6 mm
Height	37.6 mm
Length	107.5 mm



1410659

https://www.phoenixcontact.com/us/products/1410659

Outside diameter

16 mm 21	mm
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Material specifications

Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Seal material	EPDM
Housing material	PPE
Cable seal material	EPDM
Contact material	Cu alloy
Contact surface material	silver-plated
Contact carrier material	PPE
O-ring material	EPDM
Material for screw connection	PPE

Connector

Pull-out-force	150 N ±50 N
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Cable/line

External cable diameter	16 mm 21 mm
External cable diameter	16 mm 21 mm
Single wire, cross section	1.5 mm² 6 mm²
Stripping length of the individual wire	12 mm (Lay PE conductor 8 mm leading)
Halogen-free	yes

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	100
Insertion force	30 N ±10 N

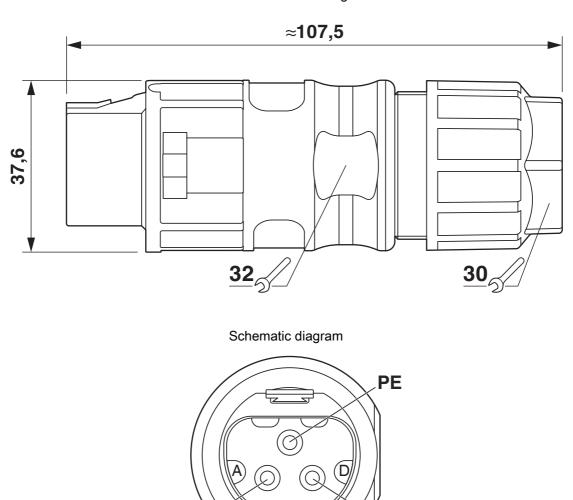
Environmental and real-life conditions

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		
Ambient temperature (assembly)	-5 °C 85 °C		

1410659

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Drawings



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Connector pin assignment

Dimensional drawing

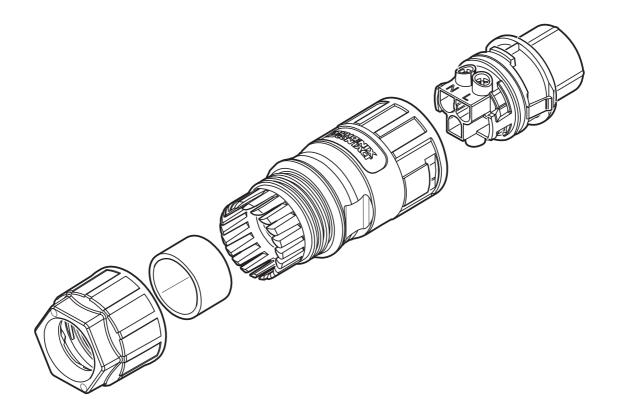
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Schematic diagram



Schematic design

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Classifications

ECLASS

	ECLASS-11.0	27440102		
ETIM				
	ETIM 8.0	EC002635		
UNSPSC				
	UNSPSC 21.0	39121400		

1410659

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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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