

1410659

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

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Installation connector, Range of articles: PRC 35, Coupler connector, 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
Minimum order quantity	10 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



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Technical data

Notes

Notes	
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 and 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/or 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

• 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).
roduct properties	
Туре	Can only be released with a tool
Product type	Installation connector
Product family	PRC 35
Number of positions	3
Connection profile	2+PE
Coding	AD
Insulation characteristics	
Protection class	II
Degree of pollution	2
lectrical 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 mm² conductor cross section in accordance with IEC 61984)
	32 A (With 6 mm² conductor cross section in accordance with IEC 61535)
	21.4 A (With 6 mm² conductor cross section and 85 °C in accordance with 2 PfG 1915)
	32 A (with AWG 10, in accordance with UL 2237)
onnection data	
Conductor connection	45 2 2 2
Conductor cross section	1.5 mm² 6 mm²
imensions	
1111011310113	
Dimensional drawing	32,0
Dimensional drawing	32 39



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External	dime	neinne

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
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
Housing material	PPE

Connector

50 N ±50 N
5

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

Mounting

Connection method	Screw connection
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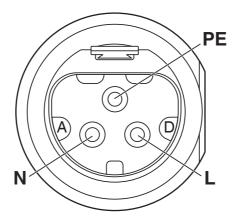


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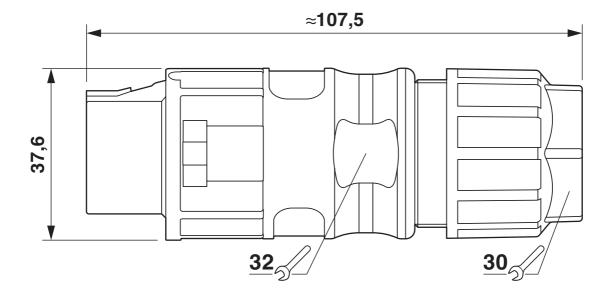
Drawings

Schematic diagram



Connector pin assignment

Dimensional drawing

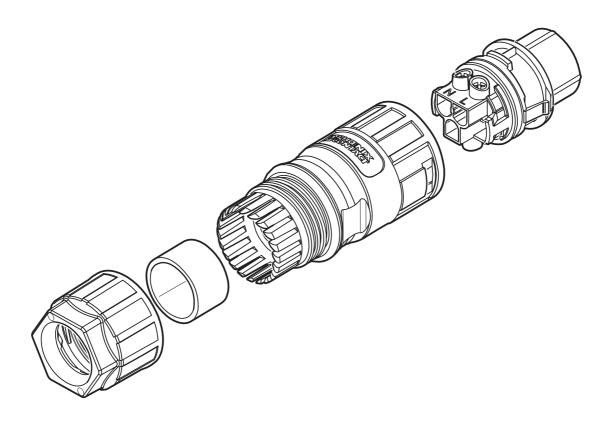




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Schematic diagram



Schematic design



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Classifications

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



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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

PRC COVER F - Protective cap

1409236

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



Installation connector, Range of articles: PRC 35, Protective cap, 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 \dots 36 mm, size: 260 mm

PRC 3-FC-MS6 8-21 - Connector

1014498

https://www.phoenixcontact.com/us/products/1014498



Installation connector, Range of articles: PRC 35, Connector, design: Release with tool or by hand (see accessories), 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: Pin, min. cable diameter: 8 mm, max. cable diameter: 21 mm. Ensures touch protection

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