

1409205

https://www.phoenixcontact.com/us/products/1409205

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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: 12 mm, max. cable diameter: 16 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	1409205
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AB03
Product key	ABLCBA
Catalog page	Page 76 (NTK-2014)
GTIN	4046356864497
Weight per piece (including packing)	91.3 g
Weight per piece (excluding packing)	91.2 g
Customs tariff number	85366990
Country of origin	PL



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#### Technical data

#### Notes

Notes	
Order information:	Variant for release with a tool
Safety note	
Safety note	<ul> <li>WARNING: Commission properly functioning products only.</li> <li>The products must be regularly inspected for damage.</li> <li>Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> </ul>
	<ul> <li>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.</li> </ul>
	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul> <li>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).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
	<ul> <li>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</li> </ul>
	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
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Use a protective cap to protect connectors that are not in use.</li> <li>The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products</li> </ul>
	Operate the connector only when it is fully plugged in.
	Operate the connector only when it is fully plugged in and interlooked.

• 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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Length

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		<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>	
		<ul> <li>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).</li> </ul>	
Pro	oduct 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	
ı	nsulation 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 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)	
		28 A (with AWG 10, in accordance with UL 2237)	
Со	nnection data		
(	Conductor connection		
	Conductor cross section	1.5 mm² 6 mm²	
Dir	nensions		
	Dimensional drawing	≈107,5	
		32 30	
	Width	37.6 mm	
	Height	37.6 mm	

107.5 mm



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External	dime	neinne

Outside diameter	12 mm 16 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
Contact surface material	silver-plated
Contact carrier material	PPE
O-ring material	EPDM
Material for screw connection	PPE

#### Connector

Pull-out-force 175 N ±50	) N
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#### Cable/line

External cable diameter	12 mm 16 mm
External cable diameter	12 mm 16 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	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

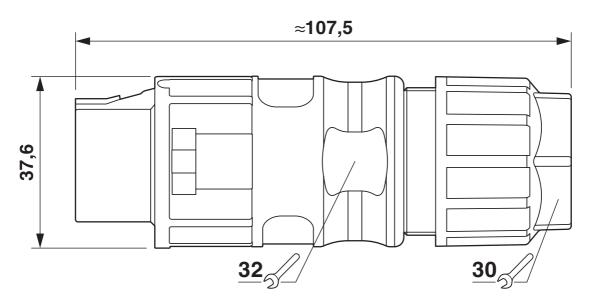


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## Drawings

#### Dimensional drawing

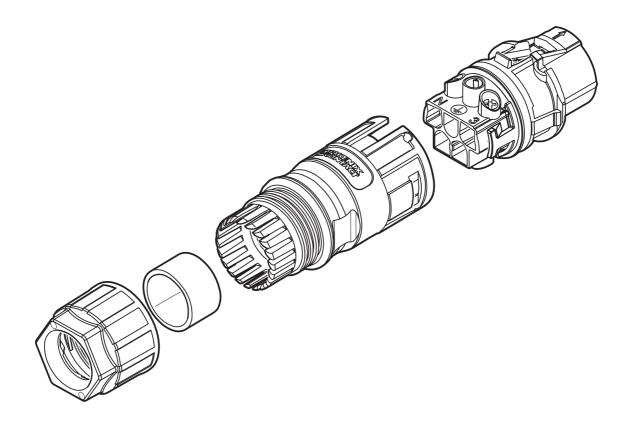


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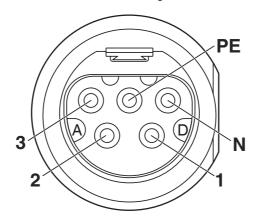


#### Schematic diagram



Schematic design

Schematic diagram



Connector pin assignment



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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

#### 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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com