PRC 3-FC-FS6 16-21 HR - Coupler connector

1017633

https://www.phoenixcontact.com/us/products/1017633

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Installation connector, Range of articles: PRC 35, Coupler 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 mm^2, max. conductor cross section: 6 mm^2, 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 manual release

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	1017633
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB03
Product key	ABLCBA
GTIN	4055626500959
Weight per piece (including packing)	78.5 g
Weight per piece (excluding packing)	78.5 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

General	Variant for manual release

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: 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.

	• 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

Type	Release with tool or by hand (see accessories)
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

Electrical properties

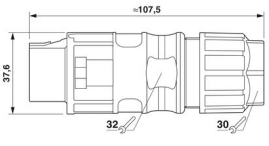
Rated voltage (III/2)	690 V
Nominal voltage ATD	690 V AC in accordance with IEC 61984
	600 V AC In accordance with UL 2238
Rated surge voltage (III/2)	8 kV
Rated current	35 A (With 6 mm² conductor cross section in accordance with IEC 61984)
	32 A (with AWG 10, in accordance with UL 2237)

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

Connector

Pull-out-force	150 N ±50 N

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	2000
Insertion force	30 N ±10 N

Environmental and real-life conditions

Ambient conditions

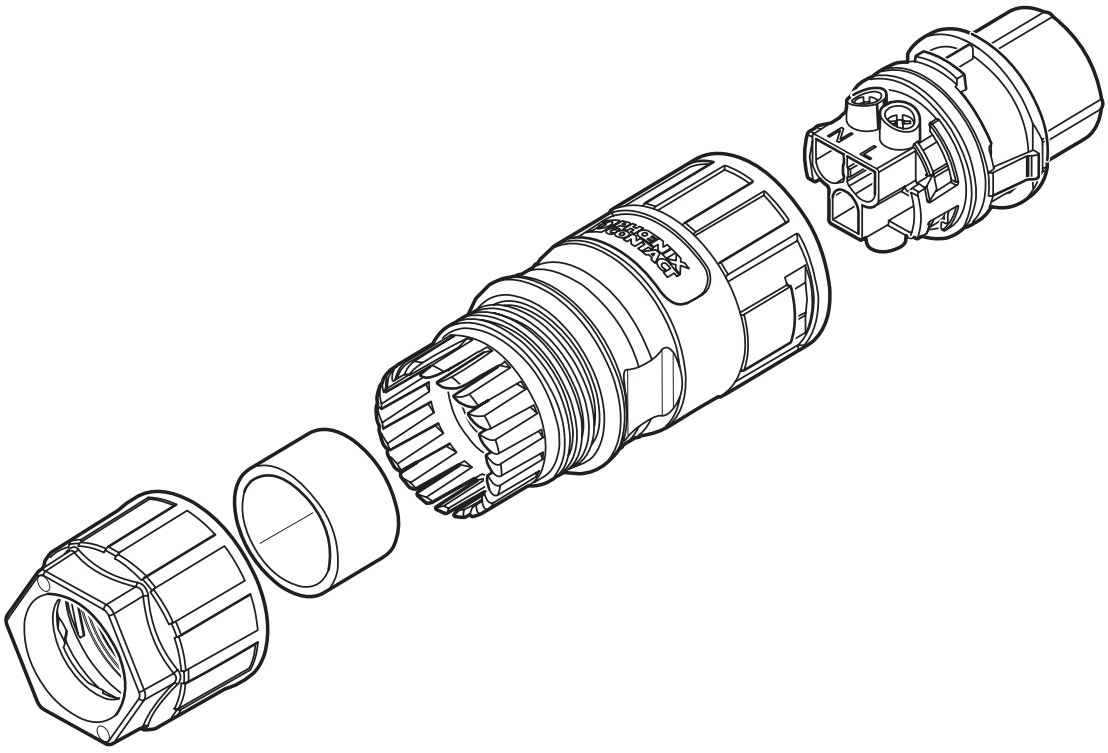
Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K
	IP66 / IP68 (2m / 24h) / IP69K
Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 85 °C

Mounting

Connection method	Screw connection

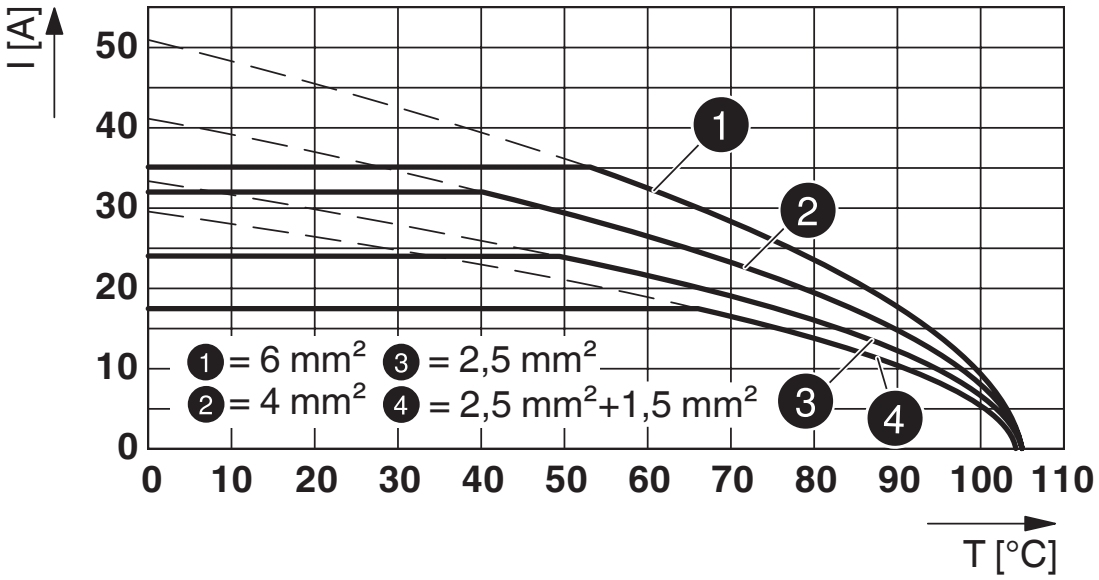
Drawings

Schematic diagram

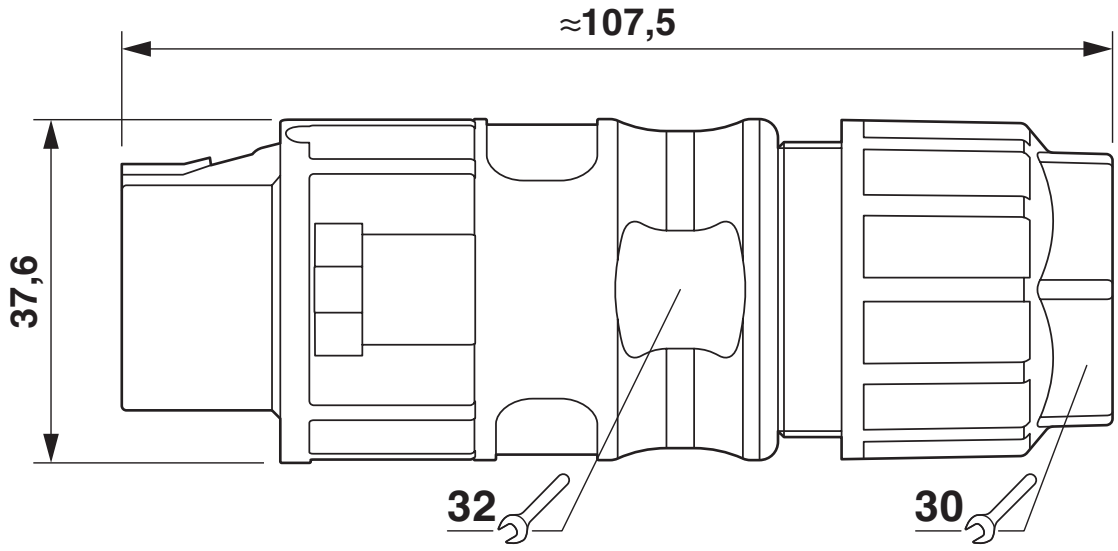


Schematic design

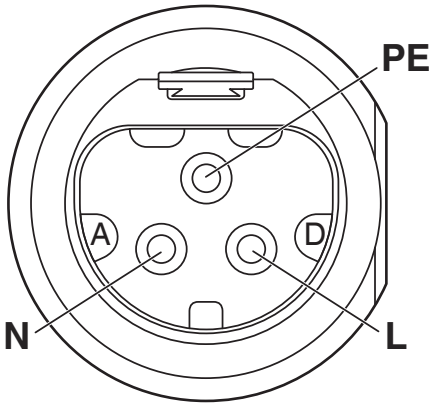
Diagram



Dimensional drawing



Schematic diagram



Connector pin assignment

Classifications

ECLASS

ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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 x 3.5 x 100 mm, 2-component grip, with non-slip grip

PRC FC RELEASE LATCH GY - Color-coding

1002292

https://www.phoenixcontact.com/us/products/1002292

Installation connector, Range of articles: PRC 35, Color-coding, housing material: PA 6.6-FR. If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

PRC FC RELEASE LATCH GN - Color-coding

1002290

https://www.phoenixcontact.com/us/products/1002290

Installation connector, Range of articles: PRC 35, Color-coding, housing material: PA 6.6-FR. If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

PRC FC RELEASE LATCH BU - Color-coding

1002293

https://www.phoenixcontact.com/us/products/1002293

Installation connector, Range of articles: PRC 35, Color-coding, housing material: PA 6.6-FR. If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

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 x 2.5 x 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

UNIFOX-WRENCH - Screw pliers

1212835

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

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

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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 mm^2, max. conductor cross section: 6 mm^2, 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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