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Circular connectors (cable-side), Range of articles: PRC, Coupler connector, type: 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, nom. voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: 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
- Suitable for applications in atmospheres containing salt and in direct sunlight
- ☑ Ideal for indoor and outdoor use due to weatherproof materials



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 500959
GTIN	4055626500959

Technical data

General data

Number of positions	3
Protection class	II
Color	black
Locking type	Snap-in locking
Insertion/withdrawal cycles	2000
Pull-out-force	150 N ± 50 N
Insertion force	30 N ±10 N
Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K
Width	37.6 mm
Height	37.6 mm
Length	107.5 mm

Connection data



Technical data

Connection data

ated voltage (III/2)	Rated current	35 A (With 6 mm² conductor cross section in accordance with IEC 61984)
ated voltage (III/2)		35 A (With 6 mm²/AWG 10, in accordance with UL 2238)
ated voltage (III/2) fipping length fripping length fripping length fripping length fripping length fripping length of the sheath fripping length of the individual wire	Nominal voltage ATD	690 V AC (in accordance with IEC 61984)
pripping length proque proper of contact pripping length of the sheath productor cross section flexible, with ferrule without plastic sleeve min. productor cross section flexible, with ferrule without plastic sleeve min. productor cross section flexible, with ferrule with plastic sleeve min. productor cross section flexible, with ferrule with plastic sleeve min. productor cross section flexible, with ferrule with plastic sleeve max. productor cross section flexible, with ferrule with plastic sleeve max. productor cross section solid min. productor cross section solid min. productor cross section solid max. productor cross section flexible min. productor cross section flexible min. productor cross section flexible max. productor cross section flexible min. productor cross section flexible max. productor cross section fl		600 V AC (In accordance with UL 2238)
max. 1 Nm (Contact screw) ype of contact ype	Rated voltage (III/2)	690 V
Socket stripping length of the sheath onductor cross section flexible, with ferrule without plastic sleeve min. onductor cross section flexible, with ferrule without plastic sleeve min. onductor cross section flexible, with ferrule with plastic sleeve min. onductor cross section flexible, with ferrule with plastic sleeve min. onductor cross section flexible, with ferrule with plastic sleeve max. onductor cross section solid min. 1.5 mm² onductor cross section solid max. 6 mm² onductor cross section flexible min. onductor cross section flexible min. onductor cross section flexible max. 6 mm² Release with tool or by hand (see accessories) screw connection geree of protection IP66 / IP68 (2m / 24h) / IP69K sertion force 30 N ± 10 N tripping length of the individual wire vervoltage category III sullating material group 1/ CTI 600 the onductor cross section flexible min. 1.5 mm² 1.5 mm² 6 mm² 1.5 mm² 1.5 mm² 6 mm² 1.5 mm² 1.5 mm² 6 mm² 1.5 mm² 1.7 mm (Lay PE conductor 8 mm leading) III sullating material group 1/ CTI 600 150 N ± 50 N	Stripping length	12 mm
ripping length of the sheath 50 mm 1.5 mm² 6 mm² 1.5 mm² 6 mm² 1.5 mm² 6 mm² 1.5 mm²	Torque	max. 1 Nm (Contact screw)
onductor cross section flexible, with ferrule without plastic sleeve min. onductor cross section flexible, with ferrule with plastic sleeve min. onductor cross section flexible, with ferrule with plastic sleeve min. onductor cross section flexible, with ferrule with plastic sleeve min. onductor cross section solid min. 1.5 mm² 1.5 m	Type of contact	Socket
onductor cross section flexible, with ferrule without plastic sleeve max. onductor cross section flexible, with ferrule with plastic sleeve min. onductor cross section flexible, with ferrule with plastic sleeve max. onductor cross section solid min. 1.5 mm² onductor cross section solid max. onductor cross section flexible min. onductor cross section flexible min. onductor cross section flexible max. onductor cross section flexible min.	Stripping length of the sheath	50 mm
anductor cross section flexible, with ferrule with plastic sleeve min. 1.5 mm² 6 mm² 1.5 mm² 1.6 m	Conductor cross section flexible, with ferrule without plastic sleeve min.	1.5 mm²
onductor cross section flexible, with ferrule with plastic sleeve max. 6 mm² 1.5 mm² onductor cross section solid min. onductor cross section solid max. 6 mm² onductor cross section flexible min. onductor cross section flexible min. onductor cross section flexible max. 6 mm² Release with tool or by hand (see accessories) onnection method screw connection egree of protection pegree of protection pegree of protection sertion force 30 N ± 10 N ripping length of the individual wire vervoltage category III sulating material group III I / CTI 600 III-out-force 150 N ± 50 N	Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm²
onductor cross section solid min. onductor cross section solid max. onductor cross section flexible min. onductor cross section flexible min. onductor cross section flexible max. onductor cross section flexible min.	Conductor cross section flexible, with ferrule with plastic sleeve min.	1.5 mm²
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onductor cross section flexible min. 4 mm² onductor cross section flexible max. 6 mm² Release with tool or by hand (see accessories) onnection method Screw connection legree of protection legree of protection sertion force 30 N ± 10 N tripping length of the individual wire vervoltage category sulating material group I/ CTI 600 ull-out-force 4 mm² Release with tool or by hand (see accessories) Screw connection lP66 / IP68 (2m / 24h) / IP69K 30 N ± 10 N 12 mm (Lay PE conductor 8 mm leading) I/ CTI 600 ull-out-force 150 N ± 50 N	Conductor cross section solid min.	1.5 mm²
onductor cross section flexible max. (pe Release with tool or by hand (see accessories) Screw connection (pegree of protection IP66 / IP68 (2m / 24h) / IP69K sertion force 30 N ±10 N tripping length of the individual wire 12 mm (Lay PE conductor 8 mm leading) vervoltage category III sulating material group I / CTI 600 ull-out-force 150 N ± 50 N	Conductor cross section solid max.	6 mm²
Release with tool or by hand (see accessories) Screw connection egree of protection IP66 / IP68 (2m / 24h) / IP69K sertion force 30 N ±10 N tripping length of the individual wire vervoltage category III sulating material group I / CTI 600 ull-out-force Release with tool or by hand (see accessories) Screw connection IP66 / IP68 (2m / 24h) / IP69K 30 N ±10 N 12 mm (Lay PE conductor 8 mm leading) III Sulating material group I / CTI 600 III-out-force	Conductor cross section flexible min.	4 mm²
onnection method Screw connection IP66 / IP68 (2m / 24h) / IP69K sertion force 30 N ±10 N tripping length of the individual wire vervoltage category III sulating material group I / CTI 600 ull-out-force Screw connection IP66 / IP68 (2m / 24h) / IP69K 30 N ±10 N 12 mm (Lay PE conductor 8 mm leading) III 17 CTI 600 150 N ± 50 N	Conductor cross section flexible max.	6 mm²
egree of protection IP66 / IP68 (2m / 24h) / IP69K sertion force 30 N ±10 N tripping length of the individual wire 12 mm (Lay PE conductor 8 mm leading) tvervoltage category III sulating material group I / CTI 600 till-out-force 150 N ± 50 N	Туре	Release with tool or by hand (see accessories)
sertion force 30 N ±10 N tripping length of the individual wire 12 mm (Lay PE conductor 8 mm leading) vervoltage category III sulating material group 1/ CTI 600 ull-out-force 150 N ± 50 N	Connection method	Screw connection
tripping length of the individual wire 12 mm (Lay PE conductor 8 mm leading) III sulating material group I / CTI 600 III-out-force 150 N ± 50 N	Degree of protection	IP66 / IP68 (2m / 24h) / IP69K
vervoltage category III sulating material group I / CTI 600 ull-out-force 150 N ± 50 N	Insertion force	30 N ±10 N
sulating material group I / CTI 600 ull-out-force 150 N ± 50 N	Stripping length of the individual wire	12 mm (Lay PE conductor 8 mm leading)
ull-out-force 150 N ± 50 N	Overvoltage category	III
	Insulating material group	I / CTI 600
able diameter1 16 mm 21 mm	Pull-out-force	150 N ± 50 N
able dameter	Cable diameter1	16 mm 21 mm

Material data

Contact material	Cu
Contact surface material	silver-plated
Contact carrier material	PPE
Housing material	PPE
Seal material	EPDM
O-ring material	EPDM
Cable seal material	EPDM
Cable gland material	PPE
Color of the housing part	black
Knurl material	PPE

Standards and Regulations

Halogen-free	yes



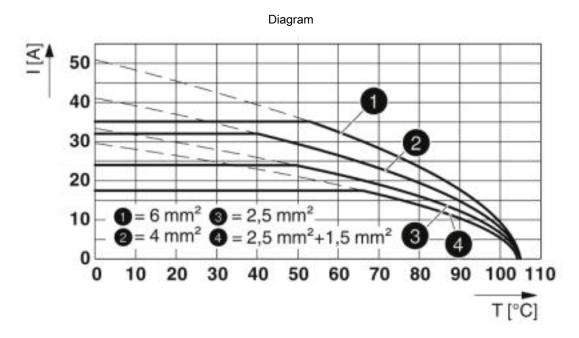
Technical data

Standards and Regulations

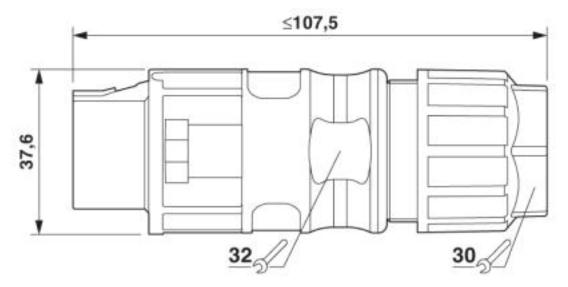
Flammability rating according to UL 94	V0
Safety note	WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	WARNING: Only electrically qualified personnel 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 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).

Drawings



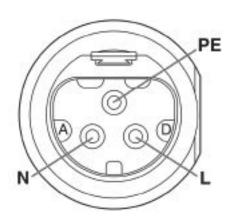


Dimensional drawing



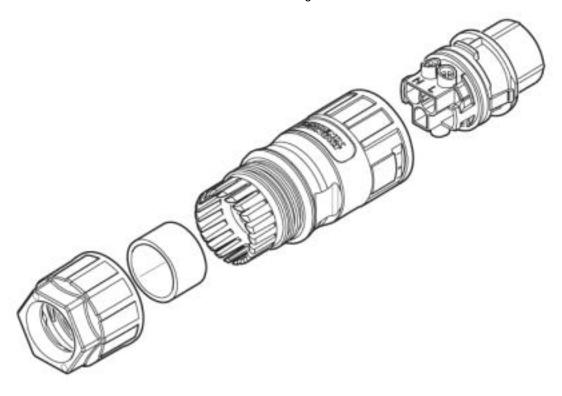


Schematic diagram



Connector pin assignment

Schematic diagram



Schematic design

Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 8.0	27440102
eCl@ss 9.0	27440102



Classifications

ETIM

ETIM 5.0	EC002061
ETIM 6.0	EC002061

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC

B.01687

Accessories

Accessories

Circular connector (cable-side)

Accessories - PRC FC RELEASE LATCH GY - 1002292

EHE



Circular connectors (cable-side), Range of articles: PRC, Accessories, housing material: PA 6.6-FR, color: black. If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

Accessories - PRC FC RELEASE LATCH GN - 1002290



Circular connectors (cable-side), Range of articles: PRC, Accessories, housing material: PA 6.6-FR, color: black. If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required



Accessories

Accessories - PRC FC RELEASE LATCH BU - 1002293



Circular connectors (cable-side), Range of articles: PRC, Accessories, housing material: PA 6.6-FR, color: black. If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

Protective cover

Protective cap - PRC COVER F - 1409236



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

Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 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

Screwdriver - SZF 0-0,4X2,5 - 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

Philips screwdriver - SF-PH 1-80 S-VDE - 1212693



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

Universal tools



Accessories

Tool - UNIFOX-WRENCH - 1212835



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

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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany

Tel. +49 5235 300 Fax +49 5235 3 41200

http://www.phoenixcontact.com