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Circular connectors (cable-side), Range of articles: PRC, Coupler connector, type: 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, nom. voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: 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
- 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
Minimum order quantity	10 pc
GTIN	4 046356 867702
GTIN	4046356867702

Technical data

General data

Number of positions	3
Protection class	П
Color	black
Locking type	Snap-in locking
Insertion/withdrawal cycles	100
Pull-out-force	150 N ± 50 N
Insertion force	30 N ±10 N
Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K (IP69K measured at Phoenix Contact approval laboratory)
Width	37.6 mm
Height	37.6 mm
Length	107.5 mm



Technical data

Connection data

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)	
	35 A (With 6 mm²/AWG 10, in accordance with UL 2238)	
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 voltage (III/2)	690 V	
Stripping length	12 mm	
Torque	max. 1 Nm (Contact screw)	
Type of contact	Socket	
Stripping length of the sheath	50 mm	
Conductor cross section flexible, with ferrule without plastic sleeve min.	1.5 mm²	
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm²	
Conductor cross section flexible, with ferrule with plastic sleeve min.	1.5 mm²	
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm²	
Conductor cross section solid min.	1.5 mm²	
Conductor cross section solid max.	6 mm²	
Conductor cross section flexible min.	4 mm²	
Conductor cross section flexible max.	6 mm²	
Туре	Can only be released with a tool	
Connection method	Screw connection	
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K	
Insertion force	30 N ±10 N	
Stripping length of the individual wire	12 mm (Lay PE conductor 8 mm leading)	
Overvoltage category	III	
Insulating material group	I / CTI 600	
Pull-out-force	150 N ± 50 N	
Cable diameter1	12 mm 16 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 gland material	PPE
Color of the housing part	black



Technical data

Material data

Knurl material	PPE
Ambient conditions	
Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Standards and Regulations	
Category of shock impact	IK08 (-25°C)
Halogen-free	yes
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.



Technical data

Standards and Regulations

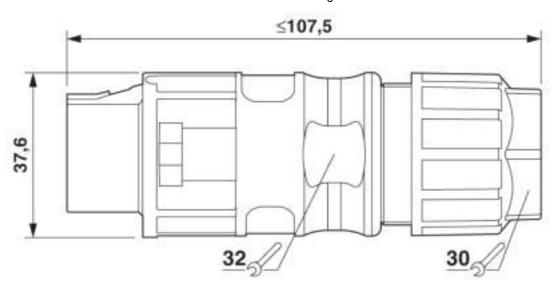
Observe the minimum bending radius of the cable. Lay the cable without twisting it.
The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

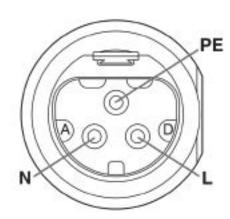
Drawings

Dimensional drawing



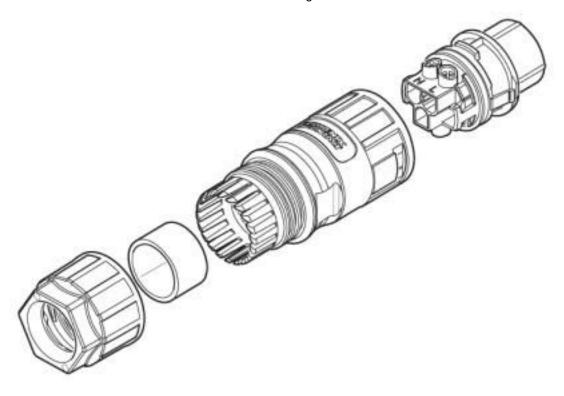


Schematic diagram



Connector pin assignment

Schematic diagram



Schematic design

Classifications

eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700



Classifications

eCl@ss

eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440102
eCl@ss 8.0	27440102
eCl@ss 9.0	27440102

ETIM

ETIM 4.0	EC002061
ETIM 5.0	EC002061
ETIM 6.0	EC002061

UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121413
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

Approvals

Approvals

Approvals

EAC / DNV GL / UL Listed / cUL Listed / TÜV Rheinland / TÜV Rh

Ex Approvals

Approval details

EAC EHI B.01687



Approvals

DNV GL	ONVEL MARTINE	https://approvalfinder.dnvgl.com/	TAE00002KM
UL Listed	U) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E221474-20150513
	TI91ED		
N		200.14	
Nominal voltage UN		600 V	
Nominal current IN		35 A	
mm²/AWG/kcmil		14-10	
cUL Listed	CUL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E221474-20150513
Naminal valtana I IN		000 V	
Nominal voltage UN		600 V	
Nominal current IN		35 A	
mm²/AWG/kcmil		14-10	
TÜV Rheinland	TOWNS CONTROL	http://www.certipedia.com	R 60117908
TÜV Rheinland	TOPResented CONICO	http://www.certipedia.com	R 60117904-0002
		lana v	
Nominal voltage UN		690 V	
Nominal current IN		35 A	
mm²/AWG/kcmil		6	
TÜV Rheinland	100 minutes	http://www.certipedia.com	R 60117904-0001
cULus Listed	c UL us		



Accessories

Accessories

Circular connector (cable-side)

Connector - PRC 3-FC-MS6 8-21 - 1014498



Circular connectors (cable-side), Range of articles: PRC, Connector, 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: Pin, min. cable diameter: 8 mm, max. cable diameter: 21 mm

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 x 2.5 x 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



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