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Circular connectors (cable-side), Range of articles: PRC, Connector, housing material: PPE, color: black, number of positions: 3, min. conductor cross section: 1.5 mm<sup>2</sup>, max. conductor cross section: 6 mm<sup>2</sup>, nom. voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: Pin, min. cable diameter: 16 mm, max. cable diameter: 21 mm

### Your advantages

- ${\ensuremath{\,^{\scriptsize \Box}}}$  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



## Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 494531
GTIN	4055626494531

## Technical data

#### General data

Number of positions	3	
Protection class	11	
Color	black	
Locking type	Snap-in locking	
Insertion/withdrawal cycles	2000	
Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K	
Width	37.6 mm	
Height	37.6 mm	
Length	105 mm	

### Connection data

Rated current	35 A (With 6 mm <sup>2</sup> conductor cross section in accordance with IEC 61984)
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## Technical data

## Connection data

32 A (With 6 mm <sup>2</sup> conductor cross section in accordance wi IEC 61535)			
	35 A (With 6 mm <sup>2</sup> /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	Pin		
Stripping length of the sheath	50 mm		
Conductor cross section flexible, with ferrule without plastic sleeve min.	. 1.5 mm <sup>2</sup>		
Conductor cross section flexible, with ferrule without plastic sleeve max.	. 6 mm²		
Conductor cross section flexible, with ferrule with plastic sleeve min.	1.5 mm <sup>2</sup>		
Conductor cross section flexible, with ferrule with plastic sleeve max. 6 mm <sup>2</sup>			
Conductor cross section solid min.	1.5 mm <sup>2</sup>		
Conductor cross section solid max.	6 mm <sup>2</sup>		
Conductor cross section flexible min.	4 mm <sup>2</sup>		
Conductor cross section flexible max.	6 mm²		
Connection method	Screw connection		
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K		
Stripping length of the individual wire	12 mm (Lay PE conductor 8 mm leading)		
Cable diameter1	16 mm 21 mm		

## Material data

Contact material	Cu alloy	
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	
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.	



## Technical data

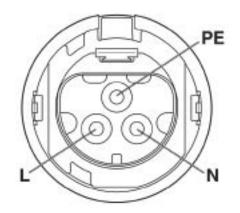
## Standards and Regulations

• 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 mu 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 connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable when combining several circuits in a cable and/or connected applicable	
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).	

Drawings



## Schematic diagram



Connector pin assignment

## Classifications

### eCl@ss

eCl@ss 10.0.1	27440109
eCl@ss 8.0	27440102
eCl@ss 9.0	27440103

#### ETIM

ETIM 5.0	EC002061
ETIM 6.0	EC002061

### Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

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### Approval details

	UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E221474-20150513	
Nomin	al voltage UN			600 V
Nomin	al current IN			35 A

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## Approvals

mm²/AWG/kcmil	10

cUL Listed	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E221474-20150513	
Nominal voltage UN	600 V	
Nominal current IN	25 A	
mm²/AWG/kcmil	12-10	

EAC

EHE

B.01687

cULus Listed

## Accessories

Accessories

Circular connector (cable-side)

Coupler connector - PRC 3-FC-FS6 8-21 HR - 1017635



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 mm<sup>2</sup>, max. conductor cross section: 6 mm<sup>2</sup>, nom. voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: Socket, min. cable diameter: 8 mm, max. cable diameter: 21 mm. Variant for manual release

#### Coupler connector - PRC 3-FC-FS6 8-21 - 1410661



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 mm<sup>2</sup>, max. conductor cross section: 6 mm<sup>2</sup>, nom. voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: Socket, min. cable diameter: 8 mm, max. cable diameter: 21 mm. Variant for release with a tool

Protective cover



## Accessories

Protective cap - PRC COVER M - 1409237



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

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, 2component 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

Universal tools

Tool - UNIFOX-WRENCH - 1212835



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

Additional products

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## Accessories

Coding element - PRC FC-M CODE-BU - 1014455



Circular connectors (cable-side), Range of articles: PRC, Coding element, housing material: PA 6.6-FR, color: blue

Coding element - PRC FC-M CODE-GY - 1014457



Circular connectors (cable-side), Range of articles: PRC, Coding element, housing material: PA 6.6-FR, color: gray

Coding element - PRC FC-M CODE-GN - 1014456



Circular connectors (cable-side), Range of articles: PRC, Coding element, housing material: PA 6.6-FR, color: green

Coding element - PRC FC-M CODE-BK - 1014496



Circular connectors (cable-side), Range of articles: PRC, Coding element, housing material: PA 6.6-FR, color: black

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