

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



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: 12 mm

#### 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 494623
GTIN	4055626494623

#### Technical data

#### General data

Number of positions	3
Protection class	П
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	106 mm

#### Connection data

Rated current	35 A (With 6 mm² conductor cross section in accordance with IEC 61984)



## Technical data

## Connection data

	32 A (With 6 mm² conductor cross section in accordance with IEC 61535)
	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	Pin
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
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	8 mm 12 mm

#### Material data

Contact material	Copper alloy
Contact surface material	Silver
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

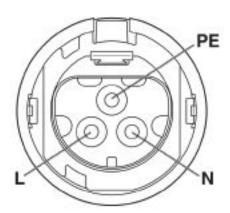
## Standards and Regulations

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 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).

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

## Approval details

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



#### Approvals

mm²/AWG/kcmil	10

cUL Listed	CUL	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	ERC		B.01687
-----	-----	--	---------

cULus Listed 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 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: 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 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: 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, 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

Tool - UNIFOX-WRENCH - 1212835



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

#### Additional products



#### 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

Phoenix Contact 2020 © - all rights reserved http://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany Tel. +49 5235 300

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

http://www.phoenixcontact.com

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Solar Connectors / Photovoltaic Connectors category:

Click to view products by Phoenix Contact manufacturer:

Other Similar products are found below:

1740699-7 1971861-4 1971131-4 1971858-3 1971861-3 PV-090508-F03 PV-090508-M10 PV-CM-S 2 5-6 (-) 2270184-3 2270154-2 2270226-4 PV-090508-M06-N 1987558-2 PV-090506-F03 UTXPM UTXPF UTXCMB6AM 1627092 1017635 1017636 1-2306314-1 1-2306314-2 1302440201 1303450000 PV-STICK+ VPE10 2-1971862-2 H4CMC6DM 1705996 1705995 1971858-2 5-2306317-2 1704926 H4CFC4DIS H4CFC4DC H4CFC4DM H4CFC6DM H4CFM2DI H4CFM6DI H4CMC2DI H4CMC8DM H4CMM6DI H4CMC4DMS H4CMC4DIS H4PF H4PM HGLUI PWJ-03BMMB-LL8001 UTXCFA0AM UTXCFA4BMH UTXCMA0AM UTXCMA4AM