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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 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

Your advantages

- $^{\scriptsize {\scriptsize {\scriptsize M}}}$ 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
Minimum order quantity	50 pc
GTIN	4 055626 494807
GTIN	4055626494807
Weight per Piece (excluding packing)	100.000 g
Custom tariff number	85366990
Country of origin	Poland

Technical data

General data

Number of positions	3
Protection class	П
Color	black
Locking type	Snap-in locking
Insertion/withdrawal cycles	2000



Technical data

General data

Insertion force	50 N ±10 N	
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 ² conductor cross section in accordance with IEC 61984)		
	32 A (With 6 mm ² conductor cross section in accordance with IEC 61535)		
	35 A (With 6 mm ² /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 ²		
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm ²		
Conductor cross section flexible, with ferrule with plastic sleeve min.	1.5 mm ²		
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm ²		
Conductor cross section solid min.	1.5 mm ²		
Conductor cross section solid max.	6 mm ²		
Conductor cross section flexible min.	4 mm ²		
Conductor cross section flexible max.	6 mm ²		
Connection method	Screw connection		
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K		
Insertion force	50 N ±10 N		
Stripping length of the individual wire	12 mm (Lay PE conductor 8 mm leading)		
Cable diameter1	8 mm 21 mm		

Material data

Contact material	Cu alloy
Contact surface material	silver-plated
Contact carrier material	PPE
Housing material	PPE
Seal material	EPDM



Technical data

Material data

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.
	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.



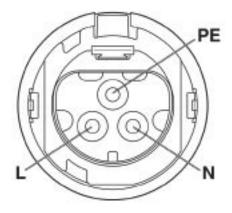
Technical data

Standards and Regulations

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



1

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

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

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Approval details

UL Listed	UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		E221474-20150513
Nominal voltage UN			600 V	
Nominal current IN			35 A	
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	EAC	B.01687

cULus Listed

Accessories

Accessories

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 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

07/03/2020 Page 6 / 7



Accessories

Additional products

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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