

Coupler connector - PRC 3-FC-FS6 12-16 - 1409217

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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

RoHS

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 046356 867702
GTIN	4046356867702
Weight per Piece (excluding packing)	80.000 g
Custom tariff number	85366990
Country of origin	Poland

Technical data

General data

Number of positions	3
Protection class	II
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)

Connection data

Coupler connector - PRC 3-FC-FS6 12-16 - 1409217

Technical data

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)
	21.4 A (With 6 mm ² conductor cross section and 85 °C in accordance with 2 PfG 1915)
	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	Socket
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

Material data

Contact material	Cu
Contact surface material	silver-plated
Contact carrier material	PPE
Flammability rating according to UL 94	V0

Standards and Regulations

Halogen-free	yes
Flammability rating according to UL 94	V0
Safety note	<ul style="list-style-type: none">• 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.
	<ul style="list-style-type: none">• 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.

Coupler connector - PRC 3-FC-FS6 12-16 - 1409217

Technical data

Standards and Regulations

	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p>
	<ul style="list-style-type: none">Assembled products may not be manipulated or improperly opened.
	<ul style="list-style-type: none">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).
	<ul style="list-style-type: none">When using the product in direct connection with third-party manufacturers, the user is responsible.
	<ul style="list-style-type: none">For operating voltages > 50 V AC, conductive connector housings must be grounded
	<ul style="list-style-type: none">Ensure that the protective or functional ground has been properly connected.
	<ul style="list-style-type: none">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
	<ul style="list-style-type: none">Observe the corresponding technical data. You will find information:<ul style="list-style-type: none">On the productOn the packing labelIn the supplied documentationOnline at phoenixcontact.com/products under the product
	<ul style="list-style-type: none">Only use tools recommended by Phoenix Contact
	<ul style="list-style-type: none">The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	<ul style="list-style-type: none">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
	<ul style="list-style-type: none">Operate the connector only when it is fully plugged in.
	<ul style="list-style-type: none">Operate the connector only when it is fully plugged in and interlocked.
	<ul style="list-style-type: none">Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	<ul style="list-style-type: none">Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	<ul style="list-style-type: none">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).

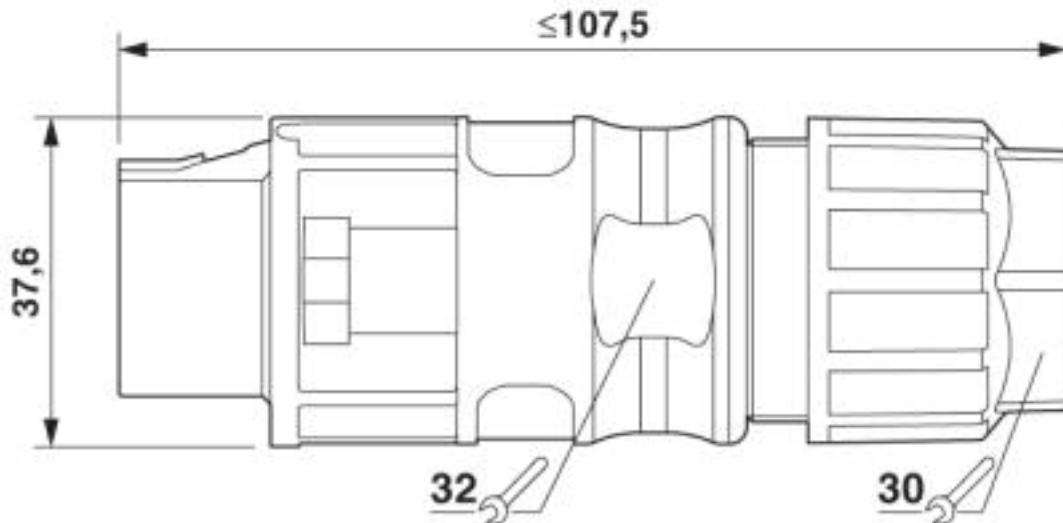
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

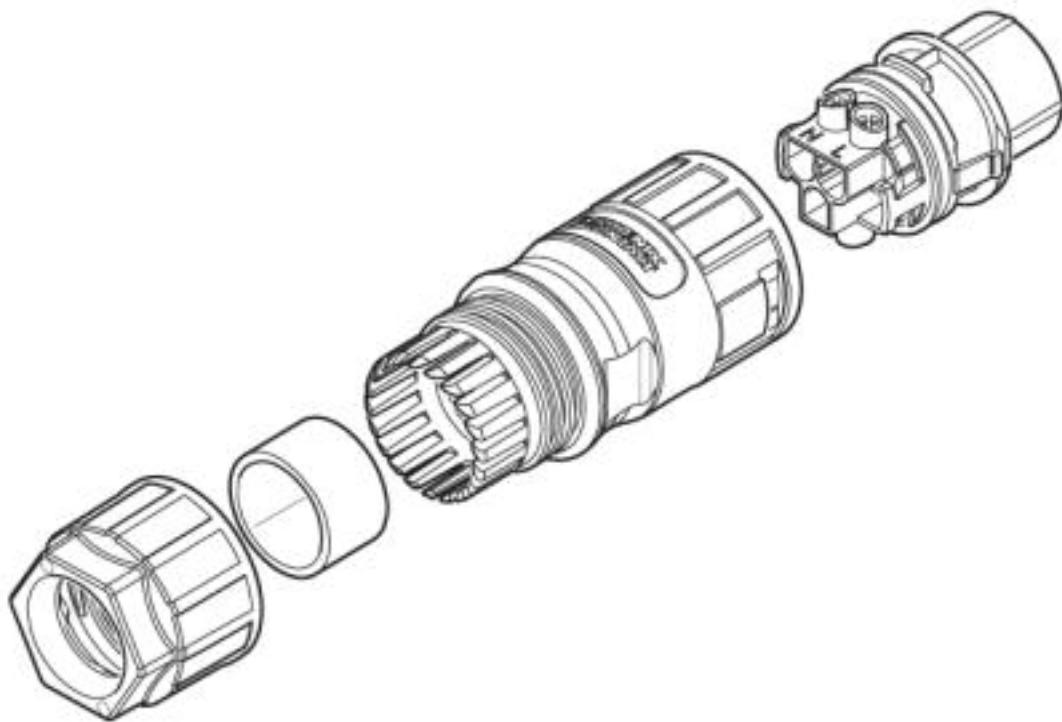
Drawings

Coupler connector - PRC 3-FC-FS6 12-16 - 1409217

Dimensional drawing



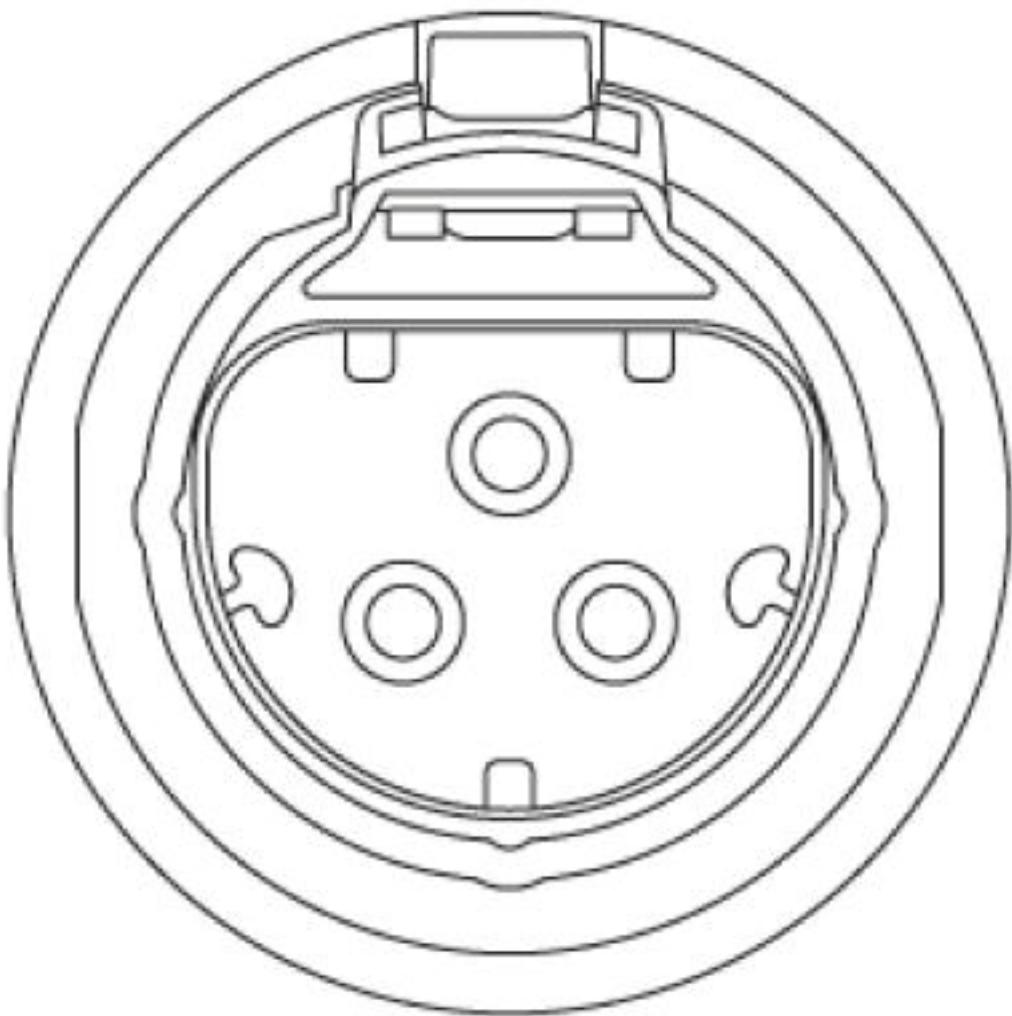
Schematic diagram



Schematic design

Coupler connector - PRC 3-FC-FS6 12-16 - 1409217

Schematic diagram



Connector pin assignment

Classifications

eCl@ss

eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700

Coupler connector - PRC 3-FC-FS6 12-16 - 1409217

Classifications

eCl@ss

eCl@ss 7.0	27440102
eCl@ss 8.0	27440102
eCl@ss 9.0	27440103

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

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

Ex Approvals

Approval details

DNV GL



<https://approvalfinder.dnvgi.com/>

TAE00002KM

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Approvals

TÜV Rheinland		http://www.certipedia.com	R 60117908
TÜV Rheinland		http://www.certipedia.com	R 60117904-0002
Nominal voltage UN		690 V	
Nominal current IN		35 A	
mm ² /AWG/kcmil		6	
TÜV Rheinland		http://www.certipedia.com	R 60117904-0001
UL 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	
mm ² /AWG/kcmil		14-10	
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E221474-20150513
Nominal voltage UN		600 V	
Nominal current IN		35 A	
mm ² /AWG/kcmil		14-10	
EAC			B.01742

Coupler connector - PRC 3-FC-FS6 12-16 - 1409217

Approvals

cULus Listed



Accessories

Accessories

Circular connector (cable-side)

Protective cap - PRC COVER F - 1409236



Protective cap for 3 and 5-pos. PRC field plugs

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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