PRC 5-FC-FS6 12-16 - Coupler connector

1409205

https://www.phoenixcontact.com/us/products/1409205

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 documentation. Our general terms of use for downloads are valid.



Coupler connector, Range of articles: PRC 35, design: Can only be released with a tool, housing material: PPE, color: black, number of positions: 5, min. conductor cross-section: 1.5 mm^2, max. conductor cross-section: 6 mm^2, rated voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, 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
- 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

Commercial data

Item number	1409205
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AB03
Product key	ABLCBA
GTIN	4046356864497
Weight per piece (including packing)	91.3 g
Weight per piece (excluding packing)	91.2 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

Order information:	Variant for release with a tool

Product properties

Product type	Installation connector
Product family	PRC 35
Type	Can only be released with a tool
Number of positions	5
Connection profile	4+PE
Coding	AD

Insulation characteristics

Protection class	II
Degree of pollution	2

Electrical properties

Rated voltage (III/2)	690 V
Rated voltage	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 surge voltage (III/2)	8 kV
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)
	28 A (with AWG 10, in accordance with UL 2237)

Connection data

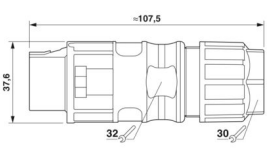
Connection technology

Connection method	Screw connection

Conductor connection

Conductor cross-section	1.5 mm² ... 6 mm²

Dimensions

Dimensional drawing	
Width	37.6 mm

Height	37.6 mm
Length	107.5 mm

External dimensions

Outside diameter	12 mm ... 16 mm

Material specifications

Color (Housing)	black (RAL 9005)
Color of the housing part	black
Flammability rating according to UL 94	V0
Seal material	EPDM
Housing material	PPE
Cable seal material	EPDM
Contact material	Cu
Contact surface material	silver-plated
Contact carrier material	PPE
O-ring material	EPDM
Material for screw connection	PPE

Connector

Pull-out-force	175 N ±50 N

Cable/line

External cable diameter	12 mm ... 16 mm
External cable diameter	12 mm ... 16 mm
Single wire, cross section	1.5 mm² 6 mm²
Halogen-free	yes

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	100
Insertion force	40 N ±10 N

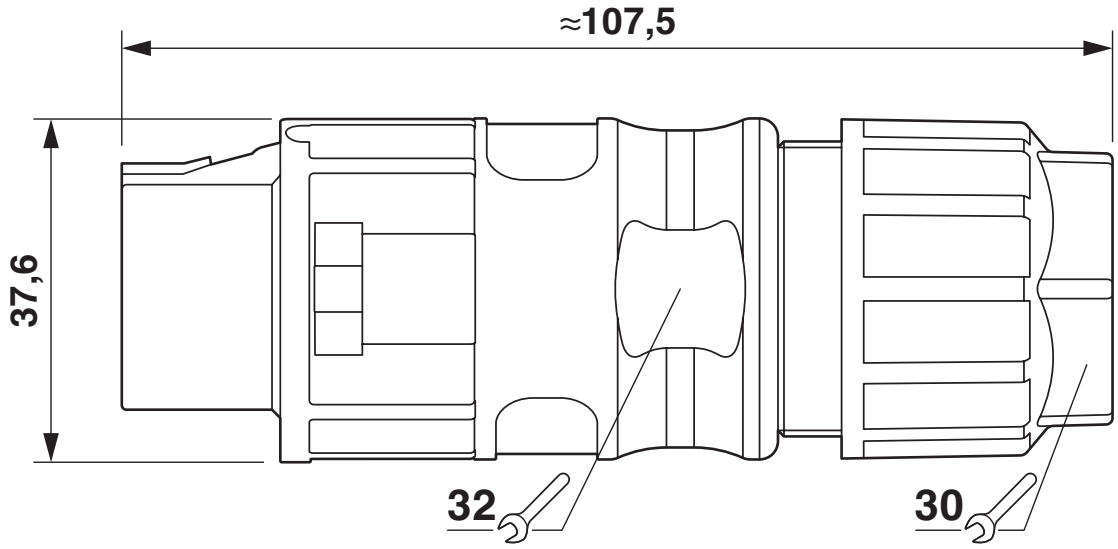
Environmental and real-life conditions

Ambient conditions

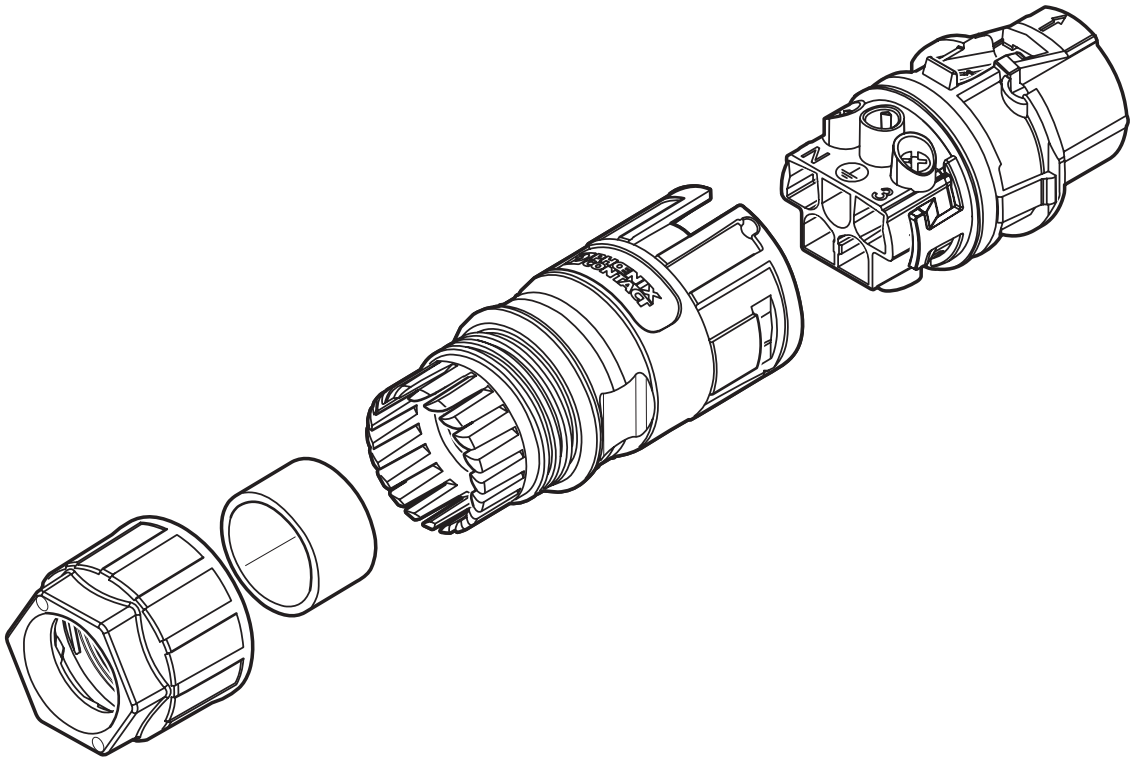
Degree of protection (when plugged in)	IP66/IP68 (2 m / 24 h) IP69K
Degree of protection	IP66/IP68 (2 m / 24 h) IP69K
	IP66/IP68 (2 m / 24 h) IP69K
Category of shock impact	IK08 (-25°C)
Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C

Drawings

Dimensional drawing

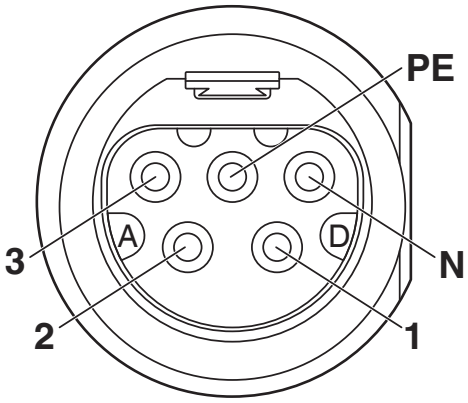


Schematic diagram



Schematic design

Schematic diagram



Connector pin assignment

Classifications

ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com