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

1017629

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Coupler connector, Range of articles: PRC 35, design: Release with tool or by hand (see accessories), 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 manual release

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	1017629
Packing unit	1 pc
Sales key	AB03
Product key	ABLCBA
GTIN	4055626501062
Weight per piece (including packing)	92.1 g
Weight per piece (excluding packing)	92.1 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

Order information:	Variant for manual release

Product properties

Product type	Installation connector
Product family	PRC 35
Type	Release with tool or by hand (see accessories)
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
	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)
	28 A (with AWG 10, in accordance with UL 2237)

Connection data

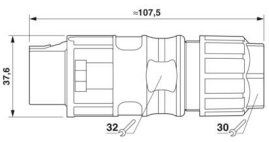
Connection technology

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

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	2000
Insertion force	40 N ±10 N

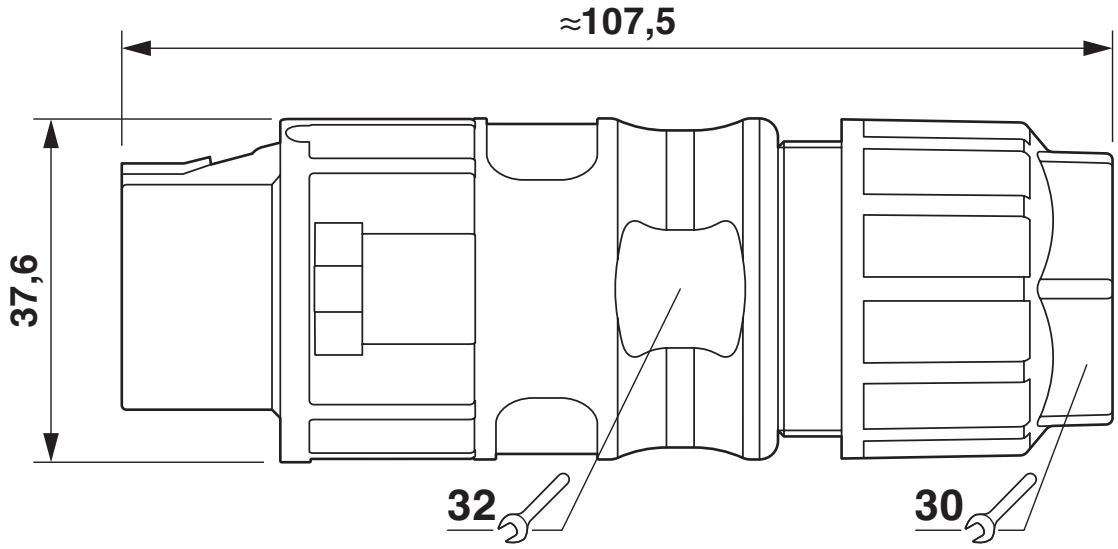
Environmental and real-life conditions

Ambient conditions

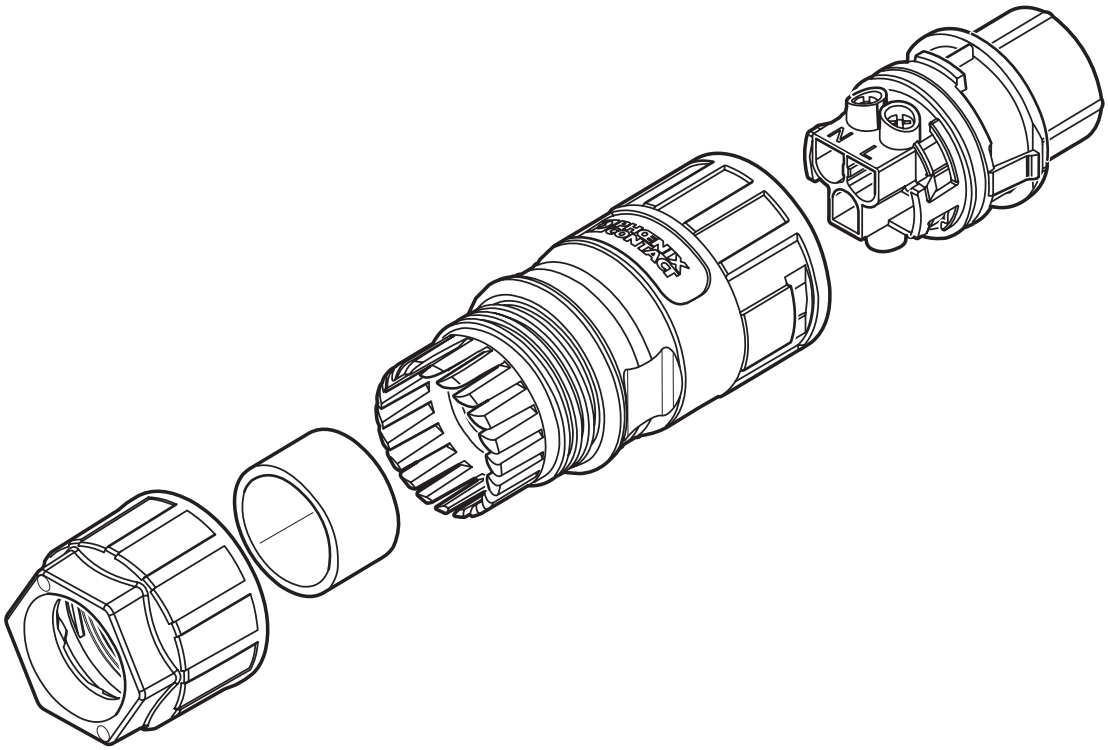
Degree of protection (when plugged in)	IP66/IP68 (2 m / 24 h) IP69K
Degree of protection	IP66/IP68 (2 m / 24 h) IP69K
	IP66/IP68 (2 m / 24 h) IP69K
Category of shock impact	IK08 (-25°C)
Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)

Drawings

Dimensional drawing

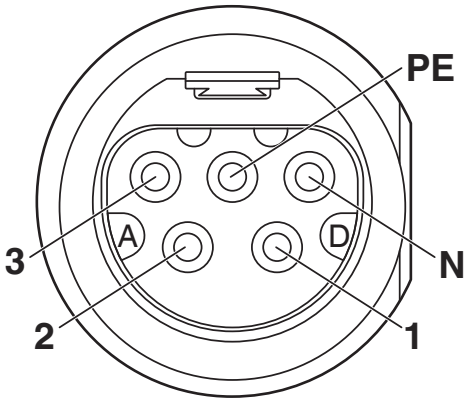


Schematic diagram



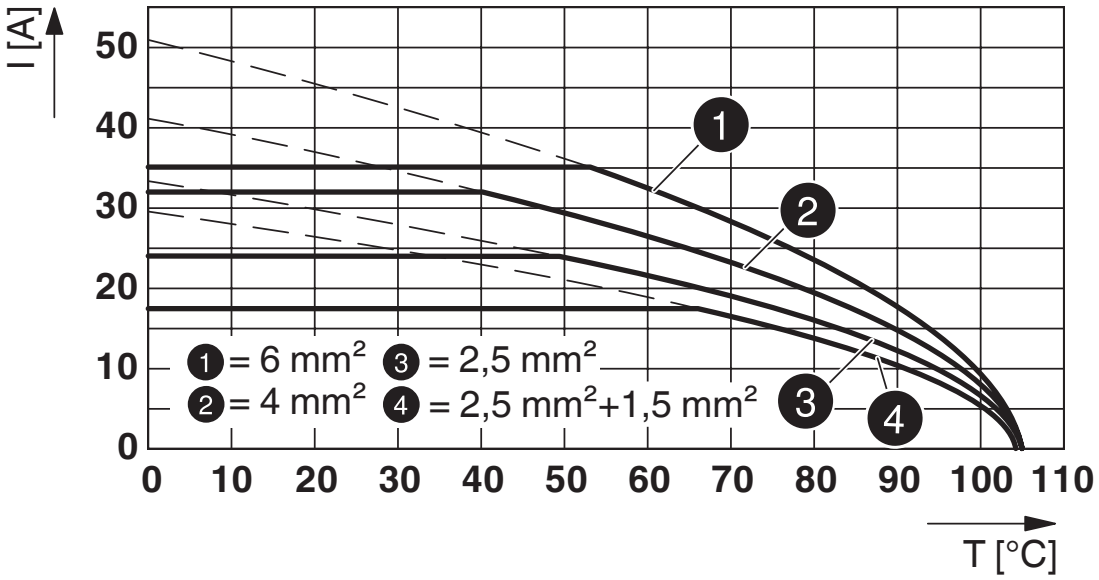
Schematic design

Schematic diagram



Connector pin assignment

Diagram


I [A]
50
40
30
20
10
0
0 10 20 30 40 50 60 70 80 90 100 110
T [°C]
1 = 6 mm²
2 = 4 mm²
3 = 2,5 mm²
4 = 2,5 mm²+1,5 mm²
1
2
3
4

Classifications

ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

ETIM

ETIM 9.0	EC002560

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%

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