PRC 5-FC-MS6 16-21 - Connector

1014505

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Connector, Range of articles: PRC 35, 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: 16 mm, max. cable diameter: 21 mm

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	1014505
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AB03
Product key	ABLCBA
GTIN	4055626494906
Weight per piece (including packing)	84.6 g
Weight per piece (excluding packing)	84.6 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

Safety note

Safety note	• 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.
	• Assembled products may not be manipulated or improperly opened.
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• Ensure that the protective or functional ground has been properly connected.
	• 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
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• Operate the connector only when it is fully plugged in.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• 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).

Product properties

Product type	Installation connector
Product family	PRC 35
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
	690 V AC in accordance with IEC 61984

Rated voltage	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)
	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

Width	37.6 mm
Height	37.6 mm
Length	105 mm

External dimensions

Outside diameter	16 mm ... 21 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 alloy
Contact surface material	silver-plated
Contact carrier material	PPE
O-ring material	EPDM
Material for screw connection	PPE

Cable/line

External cable diameter	16 mm ... 21 mm
External cable diameter	16 mm ... 21 mm
Single wire, cross section	1.5 mm² 6 mm²

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	2000

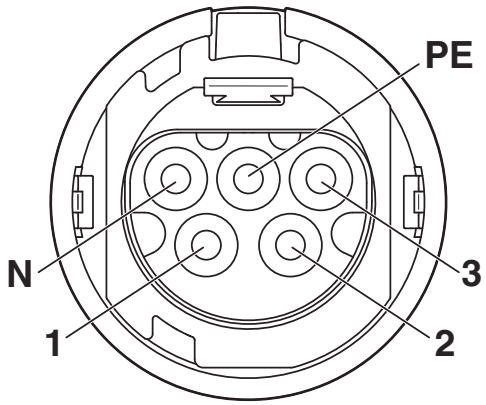
Environmental and real-life conditions

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)

Drawings

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%

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