

Connector - PRC 5-FC-MS6 16-21 - 1014505

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Installation connector, Range of articles: PRC 35, Connector, housing material: PPE, color: black, number of positions: 5, min. conductor cross section: 1.5 mm², max. conductor cross section: 6 mm², rated voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: Pin, 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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 494906
GTIN	4055626494906
Weight per Piece (excluding packing)	80.000 g
Custom tariff number	85366990
Country of origin	Poland

Technical data

Item properties

Range of articles	PRC 35
Brief article description	Connector
Product feature	designed for assembly
Color	black
Connection method	Screw connection

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Technical data

Item properties

Type of contact	Pin
Number of positions	5
Connection profile	4+PE
Coding	AD (Mating face)

Product dimensions

Width	37.6 mm
Height	37.6 mm
Length	105 mm

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)
	28 A (with AWG 10, in accordance with UL 2237)
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)
Protection class	II

Connection data

Min. wire cross section	1.5 mm ²
Max. wire cross section	6 mm ²
Cable diameter	16 mm ... 21 mm
Stripping length of the sheath	50 mm
Stripping length of the individual wire	12 mm (Lay PE conductor 8 mm leading)
Torque	max. 1 Nm (Contact screw)

Mechanical tests

Category of shock impact	IK08 (-25°C)
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Service life tests

Degree of protection	IP66 / IP68 (2m / 24h) / IP69K
Insertion/withdrawal cycles	2000

RTI	105 °C
Contact surface material	silver-plated
Contact material	Cu alloy

Safety notes

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.
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Technical data

Safety notes

	<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.
	<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"> o On the product o On the packing label o In the supplied documentation o Online 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).

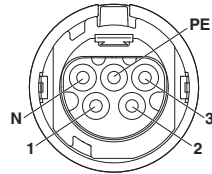
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Drawings

Schematic diagram



Connector pin assignment

Classifications

eCl@ss

eCl@ss 10.0.1	27440109
eCl@ss 11.0	27440109
eCl@ss 9.0	27440103

ETIM

ETIM 6.0	EC002061
ETIM 7.0	EC003569

UNSPSC

UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / UL Listed / cUL Listed

Ex Approvals

Approval details


Connector - PRC 5-FC-MS6 16-21 - 1014505


Approvals

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E221474-20150513
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E221474-20150513
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EAC			B.01687
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UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743-20190809
Nominal voltage UN		600 V	
Nominal current IN		30 A	
mm²/AWG/kcmil		14-10	

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743-20190809
Nominal voltage UN		600 V	
Nominal current IN		24 A	
mm²/AWG/kcmil		14-10	

Accessories

Accessories

Installation connector

Protective cap - PRC COVER M - 1409237



Installation connector, Range of articles: PRC 35, Protective cap, housing material: PPE, color: black, rated voltage: 1000. Suitable for connectors (MS)

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Accessories

Coupler connector - PRC 5-FC-FS6 8-21 HR - 1017632



Installation connector, Range of articles: PRC 35, Coupler connector, type: Release with tool or by hand (see accessories), housing material: PPE, color: black, number of positions: 5, min. conductor cross section: 1.5 mm², max. conductor cross section: 6 mm², rated voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: Socket, min. cable diameter: 8 mm, max. cable diameter: 21 mm. Variant for manual release

Coupler connector - PRC 5-FC-FS6 8-21 - 1410656



Installation connector, Range of articles: PRC 35, Coupler connector, type: Straight, housing material: PPE, color: black, number of positions: 5, min. conductor cross section: 1.5 mm², max. conductor cross section: 6 mm², rated voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: Socket, min. cable diameter: 8 mm, max. cable diameter: 21 mm. Variant for release with a tool

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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Accessories

Universal tools

Tool - UNIFOX-WRENCH - 1212835



Screw pliers, with fast adjustment, for wrench size 10 mm ... 36 mm, size: 260 mm

Additional products

Color-coding - PRC FC-M CODE-BU - 1014455



Installation connector, Range of articles: PRC 35, Color-coding, housing material: PA 6.6-FR, color: blue

Color-coding - PRC FC-M CODE-GY - 1014457



Installation connector, Range of articles: PRC 35, Color-coding, housing material: PA 6.6-FR, color: gray

Color-coding - PRC FC-M CODE-GN - 1014456



Installation connector, Range of articles: PRC 35, Color-coding, housing material: PA 6.6-FR, color: green

Color-coding - PRC FC-M CODE-BK - 1014496



Installation connector, Range of articles: PRC 35, Color-coding, housing material: PA 6.6-FR, color: black

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Accessories

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