

Connector - PRC FC-45/90-HSG 8-21 - 1065798

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Circular connectors (cable-side), Range of articles: PRC, Connector, housing material: PPE, color: black, nom. voltage: 690 V AC, min. cable diameter: 8 mm, max. cable diameter: 21 mm. Connector housing without contact insert. Please order the appropriate contact inserts according to the accessories list

Your advantages

- ✔ Universal accommodation of existing connector heads with screw connection technology
- ✔ Modular system for optimized storage
- ✔ Versatile interfaces, thanks to straight and angled connector housings
- ✔ Ideal for indoor and outdoor use, thanks to the use of weatherproof materials
- ✔ Versatile interfaces with straight and angled connector housings
- ✔ Universal accommodation of existing connector heads with screw connection technology
- ✔ Modular system for optimized storage
- ✔ Locking mechanism can be unlocked manually or using a tool
- ✔ Ideal for indoor and outdoor use due to weatherproof materials

Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 730400
GTIN	4055626730400

Technical data

General data

Color	black
Width	74 mm
Height	37.6 mm
Length	113 mm

Connection data

Nominal voltage ATD	690 V AC (in accordance with IEC 61984)
	600 V AC (In accordance with UL 2238)

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Technical data

Connection data

Rated voltage (III/2)	690 V
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K
Cable diameter1	8 mm ... 21 mm

Material data

Housing material	PPE
Seal material	EPDM
O-ring material	EPDM
Cable seal material	EPDM
Cable gland material	PPE
Color of the housing part	black
Knurl material	PPE

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C

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.
	<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

Connector - PRC FC-45/90-HSG 8-21 - 1065798

Technical data

Standards and Regulations

	o Online at phoenixcontact.com/products under the product
	• Only use tools recommended by Phoenix Contact
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• 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
	• Operate the connector only when it is fully plugged in.
	• Operate the connector only when it is fully plugged in and interlocked.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	• 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

Classifications

eCl@ss

eCl@ss 10.0.1	27440109
eCl@ss 9.0	27440103

ETIM

ETIM 6.0	EC002061
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Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

Connector - PRC FC-45/90-HSG 8-21 - 1065798

Approvals

EAC		B.01687
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Accessories

Accessories

Circular connector (cable-side)

Contact insert - PRC 5-HEAD-FS6-1 - 1070197



Circular connectors (cable-side), Range of articles: PRC, Contact insert, 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, nom. voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Type of contact: Socket. Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.

Contact insert - PRC 3-HEAD-FS6-1 - 1070198



Circular connectors (cable-side), Range of articles: PRC, Contact insert, type: Release with tool or by hand (see accessories), 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. Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.

Contact insert - PRC 5-HEAD-MS6-2 - 1070199



Circular connectors (cable-side), Range of articles: PRC, Contact insert, housing material: PPE, color: black, number of positions: 5, 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: Pin. Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.

Contact insert - PRC 3-HEAD-MS6-2 - 1070200



Circular connectors (cable-side), Range of articles: PRC, Contact insert, 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: Pin. Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.

Universal tools

Connector - PRC FC-45/90-HSG 8-21 - 1065798

Accessories

Tool - UNIFOX-WRENCH - 1212835



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

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