

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

1065798

<https://www.phoenixcontact.com/us/products/1065798>



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Connector housing, Range of articles: PRC 35, housing material: PPE, color: black, rated 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

- 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

Commercial data

Item number	1065798
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB03
Product key	ABLCBA
GTIN	4055626730400
Weight per piece (including packing)	71.9 g
Weight per piece (excluding packing)	71.9 g
Customs tariff number	85389099
Country of origin	PL

Technical data

Notes

Order information:	Connector housing without contact insert. Please order the appropriate contact inserts according to the accessories list
Safety note	
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 producto On the packing labelo In the supplied documentationo 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

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	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).
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Product properties

Product type	Installation connector
Product family	PRC 35

Insulation characteristics

Protection class	II
Degree of pollution	2

Electrical properties

Rated voltage (III/2)	690 V
Nominal voltage ATD	690 V AC (III/2.00) in accordance with IEC 61984
	600 V AC (III/2.00) In accordance with UL 2238
	500 V DC (III/2.00) in accordance with IEC 61535, when mounted
Rated surge voltage (III/2)	8 kV

Dimensions

Width	74 mm
Height	37.6 mm
Length	113 mm

External dimensions

Outside diameter	8 mm ... 21 mm
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Material specifications

Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Seal material	EPDM
Housing material	PPE
Cable seal material	EPDM
O-ring material	EPDM
Material for screw connection	PPE

Cable/line

External cable diameter	8 mm ... 21 mm
External cable diameter	8 mm ... 21 mm

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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66 / IP68 (2m / 24h) / IP69K
	IP66 / IP68 (2m / 24h) / IP69K
Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 85 °C

Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1065798>



cUL Recognized

Approval ID: E468743-20200116



UL Recognized

Approval ID: E468743-20200116



VDE Zeichengenehmigung

Approval ID: 40054228



VDE Zeichengenehmigung

Approval ID: 40054231

cULus Recognized

Classifications

ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

ETIM

ETIM 9.0	EC003569
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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Mandatory accessories

PRC 5-HEAD-FS6-1 - Contact carrier

1070197

<https://www.phoenixcontact.com/us/products/1070197>



Contact carrier, 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 mm², max. conductor cross section: 6 mm², rated voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Contact connection type: Socket, Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.

PRC 3-HEAD-FS6-1 - Contact carrier

1070198

<https://www.phoenixcontact.com/us/products/1070198>



Contact carrier, Range of articles: PRC 35, design: 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, rated voltage: 690 V AC, rated current: 35 A, Connection method: Screw connection, Contact connection type: Socket, Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.

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PRC 5-HEAD-MS6-2 - Contact carrier

1070199

<https://www.phoenixcontact.com/us/products/1070199>



Contact carrier, Range of articles: PRC 35, 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, Contact connection type: Pin, Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.

PRC 3-HEAD-MS6-2 - Contact carrier

1070200

<https://www.phoenixcontact.com/us/products/1070200>



Contact carrier, Range of articles: PRC 35, housing material: PPE, color: black, number of positions: 3, 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, Contact connection type: Pin, Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.

Accessories

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UNIFOX-WRENCH - Screw pliers

1212835

<https://www.phoenixcontact.com/us/products/1212835>

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



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