

PRC 5-HEAD-FS6-1 - Contact carrier



1070197

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

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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.

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	1070197
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB03
Product key	ABLCBA
GTIN	4055626748498
Weight per piece (including packing)	52.3 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Notes

Order information:	Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.
Note on application	For assembly notes, please refer to the packing slip

Safety note

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. • 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. • WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. • Assembled products may not be manipulated or improperly opened. • 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). • When using the product in direct connection with third-party manufacturers, the user is responsible. • For operating voltages > 50 V AC, conductive connector housings must be grounded • Ensure that the protective or functional ground has been properly connected. • 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 • 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 • 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.
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- 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).

Product properties

Product type	Contact insert
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
Nominal voltage ATD	690 V AC (III/2.00) in accordance with IEC 61984, when mounted
	600 V AC / DC (III/2.00)
	500 V DC (III/2.00) in accordance with IEC 61535, when mounted
Rated surge voltage (III/2)	8 kV
Rated current	35 A (With 6 mm ² conductor cross section in accordance with IEC 61984)
	28 A (with AWG 10, in accordance with UL 2237)
	32 A (With 6 mm ² conductor cross section in accordance with IEC 61535)

Connection data

Connection method	Screw connection
Tightening torque	... 1 Nm
Conductor cross section flexible	4 mm ² ... 6 mm ²
Conductor cross section rigid	1.5 mm ² ... 6 mm ²

Dimensions

Width	35.9 mm
Height	34.5 mm
Length	51.2 mm

Material specifications

Color	black
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Color of the housing part	black
Material	EPDM (Housing seal)
	PPE (Contact carriers)
	CuZn (Contact material, Pb < 0.1)
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Housing material	PPE
Contact material	Cu alloy
Contact surface material	silver-plated
Contact carrier material	PPE
O-ring material	EPDM

Cable/line

Single wire, cross section	1.5 mm ² 6 mm ² 14 AWG 10 AWG
Stripping length of the individual wire	12 mm (Lay PE conductor 8 mm leading)
Halogen-free	yes

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	2000 (Test specification: IEC 60512-13-2)
Insertion force	50 N ±10 N (Test specification: IEC 60512-13-2)

Environmental and real-life conditions

Ambient conditions

Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K (when mounted)
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K (when mounted)
	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

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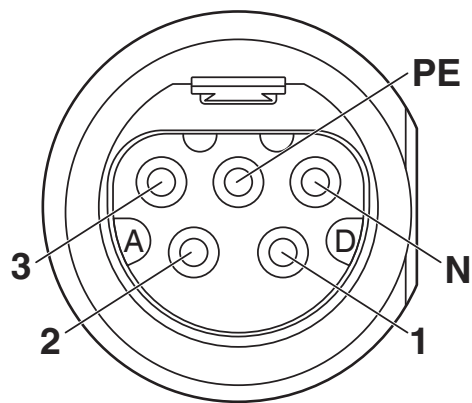


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Drawings

Schematic diagram



Connector pin assignment

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1070197>



cUL Recognized
Approval ID: E468743-20200116



UL Recognized
Approval ID: E468743-20200116

	VDE Zeichengenehmigung Approval ID: 40054231			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	690 V	35 A	-	-

	VDE Zeichengenehmigung Approval ID: 40054228			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	500 V	32 A	-	-

cULus Recognized

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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 FT25-0-HSG - Device connector front mounting

1065795

<https://www.phoenixcontact.com/us/products/1065795>



Device connector front mounting, Range of articles: PRC 35, housing material: PPE, color: black, rated voltage: 690 V AC, Connector housing without contact insert. Please order the appropriate contact inserts according to the accessories list

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

1065798

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



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

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PRC FT25-45/90-HSG - Device connector front mounting

1065796

<https://www.phoenixcontact.com/us/products/1065796>



Device connector front mounting, Range of articles: PRC 35, housing material: PPE, color: black, rated voltage: 690 V AC, Connector housing without contact insert. Please order the appropriate contact inserts according to the accessories list

Accessories

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PRC FT25-45/90-HSG - Device connector front mounting

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PRC COVER F - Protective cap

1409236

<https://www.phoenixcontact.com/us/products/1409236>



Protective cap, Range of articles: PRC 35, housing material: PPE, color: black, rated voltage: 1000, Suitable for couplings (FS)

SZF 1-0,6X3,5 - Screwdriver

1204517

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

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SF-PH 1-80 S-VDE - Screwdriver

1212693

<https://www.phoenixcontact.com/us/products/1212693>



Screwdriver, crosshead PH (lasered), insulated, size: PH 1 x 80, 2-component handle, with non-slip grip

PRC FC RELEASE LATCH BU - Color coding

1002293

<https://www.phoenixcontact.com/us/products/1002293>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

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PRC FC RELEASE LATCH GY - Color coding

1002292

<https://www.phoenixcontact.com/us/products/1002292>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

PRC FC RELEASE LATCH GN - Color coding

1002290

<https://www.phoenixcontact.com/us/products/1002290>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

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PRC FC RELEASE LATCH RD - Color coding

1125075

<https://www.phoenixcontact.com/us/products/1125075>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

PRC FC RELEASE LATCH YE - Color coding

1125073

<https://www.phoenixcontact.com/us/products/1125073>



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, If you are using the release latch, then the PRC approvals in accordance with IEC 61535 and 2PfG 1915 are not required

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