PRC 5-HEAD-FS6-1 - Contact carrier

1070197

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

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Contact insert, Range of articles: PRC 35, Contact carrier, design: Release with tool or by hand (see accessories), 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, 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

Technical data

Notes

General	Contact insert without connector housing. Please order the appropriate connector housings according to the accessories list.
General	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

Type	Release with tool or by hand (see accessories)
Product type	Contact insert
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
Nominal voltage ATD	690 V AC (III/2) in accordance with IEC 61984, when mounted
	600 V AC / DC (III/2)
	500 V DC (III/2) in accordance with IEC 61535, when mounted
Rated surge voltage (III/2)	8 kV
Rated current	35 A (With 6 mm² conductor cross section in accordance with IEC 61984)
	28 A (with AWG 10, in accordance with UL 2237)
	32 A (With 6 mm² conductor cross section in accordance with IEC 61535)

Dimensions

Width	35.9 mm
Height	34.5 mm
Length	51.2 mm

Material specifications

Color	black
Color of the housing part	black
Material	EPDM
	PPE
	CuZn
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600

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Contact material	Cu alloy
Contact surface material	silver-plated
Contact carrier material	PPE
O-ring material	EPDM
Housing material	PPE

Cable/line

Single wire, cross section	1.5 mm² 6 mm² 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

Mounting

Connection method	Screw connection

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1070197

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Drawings

Schematic diagram
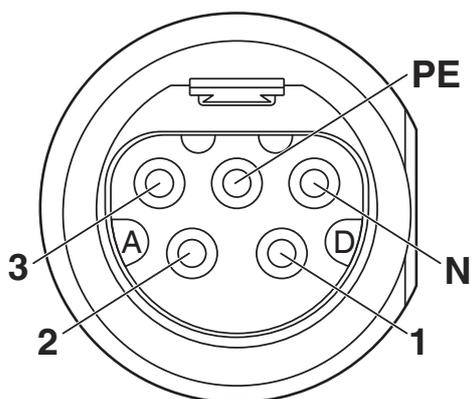
Connector pin assignment

PRC 5-HEAD-FS6-1 - Contact carrier

1070197

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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

	EAC Approval ID: B.01687

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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1070197

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC003569

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

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

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Mandatory accessories

PRC FT25-0-HSG - Device connector front mounting

1065795

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

Panel feed-through, Range of articles: PRC 35, Device connector front mounting, 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

Installation connector, Range of articles: PRC 35, Connector housing, 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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1070197

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

1065796

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

Panel feed-through, Range of articles: PRC 35, Device connector front mounting, 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

1065796

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1070197

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PRC COVER F - Protective cap

1409236

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

Installation connector, Range of articles: PRC 35, Protective cap, 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

Installation connector, Range of articles: PRC 35, Color-coding, 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 5-HEAD-FS6-1 - Contact carrier

1070197

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PRC FC RELEASE LATCH GY - Color-coding

1002292

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

Installation connector, Range of articles: PRC 35, Color-coding, 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

Installation connector, Range of articles: PRC 35, Color-coding, 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 5-HEAD-FS6-1 - Contact carrier

1070197

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PRC FC RELEASE LATCH RD - Color-coding

1125075

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

Installation connector, Range of articles: PRC 35, Color-coding, 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

Installation connector, Range of articles: PRC 35, Color-coding, 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