

https://www.phoenixcontact.com/us/products/1014531



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Connector, 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, 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

Commercial data

Item number	1014531
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AB03
Product key	ABLCBA
GTIN	4055626494531
Weight per piece (including packing)	77.7 g
Weight per piece (excluding packing)	77.7 g
Customs tariff number	85366990
Country of origin	PL

1014531

https://www.phoenixcontact.com/us/products/1014531



Technical data

Notes

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.
- \bullet VDE 0100/1.97 \S 411.1.3.2 and DIN EN 60 204/11.98 \S 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.
- 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



https://www.phoenixcontact.com/us/products/1014531



	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).
roduct properties	
Product type	Installation connector
Product family	PRC 35
Number of positions	3
Connection profile	2+PE
Coding	AD
Insulation characteristics	
Protection class	II
Degree of pollution	2
lectrical properties	
Rated voltage (III/2)	690 V
Nominal voltage ATD	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
Rated surge voltage (III/2)	8 kV
Rated current	35 A (With 6 mm² conductor cross section in accordance with IEC 61984)
	32 A (With 6 mm² conductor cross section in accordance with IEC 61535)
	32 A (with AWG 10, in accordance with UL 2237)
Connection data	
Conductor connection	
Conductor cross section	
Conductor cross section	1.5 mm² 6 mm²
	1.5 mm² 6 mm²
	1.5 mm ² 6 mm ²
limensions	
Dimensions Width	37.6 mm
Vimensions Width Height	37.6 mm 37.6 mm
Vimensions Width Height Length	37.6 mm 37.6 mm
Width Height Length External dimensions Outside diameter	37.6 mm 37.6 mm 105 mm
Width Height Length External dimensions Outside diameter Material specifications	37.6 mm 37.6 mm 105 mm
Width Height Length External dimensions Outside diameter Material specifications Color	37.6 mm 37.6 mm 105 mm 16 mm 21 mm
Width Height Length External dimensions Outside diameter Material specifications	37.6 mm 37.6 mm 105 mm



https://www.phoenixcontact.com/us/products/1014531



Seal material	EPDM
Housing material	PPE
Cable seal material	EPDM
Contact material	Cu alloy
Contact surface material	silver-plated
Contact carrier material	PPE
O-ring material	EPDM
Material for screw connection	PPE

Cable/line

External cable diameter	16 mm 21 mm
External cable diameter	16 mm 21 mm
Single wire, cross section	1.5 mm² 6 mm²
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

Environmental and real-life conditions

Ambient conditions

Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K
	IP66 / IP68 (2m / 24h) / IP69K
Ambient temperature (operation)	-40 °C 105 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (assembly)	-5 °C 85 °C

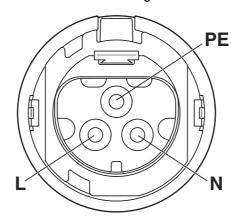
1014531

https://www.phoenixcontact.com/us/products/1014531



Drawings

Schematic diagram



Connector pin assignment



1014531

https://www.phoenixcontact.com/us/products/1014531

Classifications

	ECLASS-11.0	27440109
ETIM		
	ETIM 8.0	EC003569
UNSPSC		
	UNSPSC 21.0	39121400



1014531

https://www.phoenixcontact.com/us/products/1014531

Environmental product compliance

ΕU	RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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%



https://www.phoenixcontact.com/us/products/1014531



Accessories

PRC COVER M - Protective cap

1409237

https://www.phoenixcontact.com/us/products/1409237



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

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: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip



1014531

https://www.phoenixcontact.com/us/products/1014531

SZF 0-0,4X2,5 - Screwdriver

1204504

https://www.phoenixcontact.com/us/products/1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.4 \times 2.5 \times 75$ mm, 2-component grip, with non-slip grip

SF-PH 1-80 S-VDE - Screwdriver

1212693

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



A

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



https://www.phoenixcontact.com/us/products/1014531



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

PRC 3-FC-FS6 8-21 HR - Coupler connector

1017635

https://www.phoenixcontact.com/us/products/1017635



Coupler connector, 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, min. cable diameter: 8 mm, max. cable diameter: 21 mm, Variant for manual release



https://www.phoenixcontact.com/us/products/1014531



PRC 3-FC-FS6 8-21 - Coupler connector

1410661

https://www.phoenixcontact.com/us/products/1410661



Coupler connector, Range of articles: PRC 35, design: Can only be released with a tool, 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, min. cable diameter: 8 mm, max. cable diameter: 21 mm, Variant for release with a tool

PRC FC-M CODE-BU - Color coding

1014455

https://www.phoenixcontact.com/us/products/1014455



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, color: blue, NOTE: For indoor use only



1014531

https://www.phoenixcontact.com/us/products/1014531

PRC FC-M CODE-GY - Color coding

1014457

https://www.phoenixcontact.com/us/products/1014457



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, color: gray, NOTE: For indoor use only

PRC FC-M CODE-GN - Color coding

1014456

https://www.phoenixcontact.com/us/products/1014456



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, color: green, NOTE: For indoor use only



1014531

https://www.phoenixcontact.com/us/products/1014531

PRC FC-M CODE-BK - Color coding

1014496

https://www.phoenixcontact.com/us/products/1014496



Color coding, Range of articles: PRC 35, housing material: PA 6.6-FR, color: black, NOTE: For indoor use only

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

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