

1409211

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Device connector rear mounting, Range of articles: PRC 35, housing material: PPE, color: black, number of positions: 5, max. conductor cross section: 2.5 mm², rated voltage: 690 V AC, rated current: 24 A, Connection method: Crimp connection, Contact connection type: Pin, cable length: 150, This item is also available with other cable lengths. For your specific requirements, please contact your local PHOENIX CONTACT subsidiary.

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
- · Ideal for indoor and outdoor use due to weatherproof materials
- · Either preassembled or designed for assembly

Commercial data

Item number	1409211
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AB03
Product key	ABLCAA
Catalog page	Page 77 (NTK-2014)
GTIN	4046356864336
Weight per piece (including packing)	48.87 g
Weight per piece (excluding packing)	48.87 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Order information:	This item is also available with other cable lengths. For your specific requirements, please contact your local PHOENIX CONTACT subsidiary.
Note on application	For assembly notes, please refer to the packing slip
fety 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: On the product On the packing label In the supplied documentation 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.

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	Panel feed-through
Product family	PRC 35
Number of positions	5
Connection profile	4+PE
Coding	AD

Data management status

Article revision	14
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Insulation characteristics

Protection class	II (double or reinforced insulation)
Degree of pollution	2

Connection data

Conductor connection

Tightening torque	2.5 Nm ±0.1 Nm (Tightening torque nut)
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Dimensions

Dimensional drawing	2000 2000 2000 2000 2000 2000 2000 200
Width	34.5 mm
Height	38.4 mm
Length	179.5 mm
Hole diameter	25.5 mm
Wrench size, union nut	32 mm

Electrical properties

Rated voltage (III/2)	690 V
Nominal voltage ATD	690 V AC (III/2.00) in accordance with IEC 61984
	500 V AC (III/2.00) in accordance with IEC 61535/2 PfG 1915
	600 V AC / DC (III/2.00) in accordance with UL 2238 / UL 2237
	500 V DC (III/2.00) in accordance with IEC 61535



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Rated surge voltage (III/2)	8 kV
Rated current	24 A (With 2.5 mm² conductor cross section in accordance with IEC 61984)
	20 A (With 2.5 mm² conductor cross section in accordance with IEC 61535)
	14.1 A (With 2.5 mm² conductor cross section and 85 °C in accordance with 2 PfG 1915)
	19 A (with AWG 14, in accordance with UL 2237)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	100 (Test specification: IEC 60512-13-2)
Insertion force	50 N ±10 N (Test specification: IEC 60512-13-2)

Material specifications

Color	black
Color of the housing part	black
Material	Silicon (Contact storage)
	EPDM (Flat gasket)
	PPE (Contact carriers)
	PPE (Nut)
	CuZn (Contact material, Pb < 0.1)
	EPDM (Seal, pin connector pattern)
Flammability rating according to UL 94	V0
Insulating material group	I / CTI600
Seal material	EPDM
Housing material	PPE
Contact material	Cu alloy
Contact surface material	Ag
Contact carrier material	PPE
O-ring material	Silicon
Material for screw connection	PPE

Connector

Pull-out-force	175 N ±50 N

Cable/line

Cable length	150 mm
Single wire, material	PVC
Wire diameter incl. insulation	3.65 mm ±0.15 mm
Single wire, cross section	2.5 mm ²
Single wire, color	blue, black, gray, brown, green/yellow
Cable cross section	2.5 mm ²
Halogen-free	no



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Mounting

Mounting type	Rear mounting
Thread type	M25 x 1,5 ()

Environmental and real-life conditions

Ambient conditions

Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K
Degree of protection (not plugged in)	IP65 (Lengthwise waterproofing)
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K
Category of shock impact	IK08 (-25°C)
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

Standards and regulations

Standards/specifications	IEC 61984:2008
	EN 61984:2008
	DIN EN IEC 61535:2020
	IEC 61535:2019
	2 PfG 1915/03.2015
	UL 2237 Ed.1:2021-01-08
	CSA C22.2 No. 182.3-16 Ed.2:2019-01

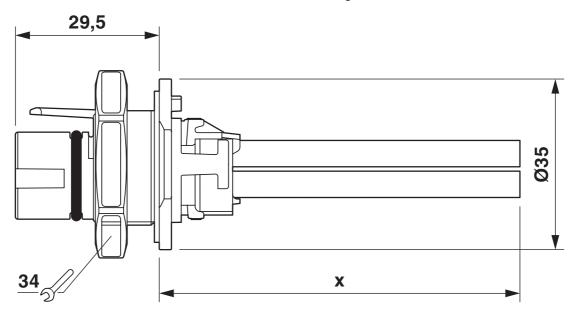


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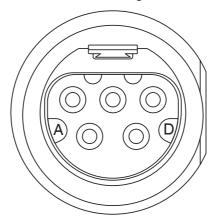
Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram

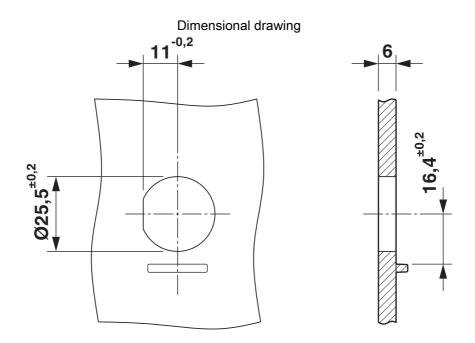


Connector pin assignment



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Housing cutout

Nominal voltage U_N

500 V



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1409211

UL Listed Approval ID: E221474-20150513					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	30 A	-	- 2.5
D	cUL Listed Approval ID: E221474-2015	0513			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	30 A	- 2,5	-
A	TÜV Rheinland Approval ID: R 60168292 0	001			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		690 V	35 A	-	-
	TÜV Rheinland Approval ID: R 60117908	Naminal valtage II	Naminal ourrant I	Cross section AWC	Cross section mm ²
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		500 V	21.4 A	-	-
<u>D</u>	cUL Listed Approval ID: E468743-2019	0809			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	24 A	-	-
D	UL Listed Approval ID: E468743-2019	0809			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	30 A	-	-

Nominal current I_N

32 A

Cross section mm²

Cross section AWG



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DNV

Approval ID: TAE00002KM



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Classifications

ECLASS

	ECLASS-11.0	27440103	
	ECLASS-12.0	27440103	
	ECLASS-13.0	27440103	
ETIM			
	ETIM 9.0	EC003570	
UNSPSC			
	UNSPSC 21.0	39121400	



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Environmental product compliance

EU 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%		

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