

1627608

https://www.phoenixcontact.com/us/products/1627608

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Device connector rear mounting, Range of articles: PRC 35, housing material: PPE, color: black, number of positions: 3, rated voltage: 690 V AC, rated current: 35 A, Connection method: Crimp connection, Contact connection type: Pin, Nut must be ordered separately

#### 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	1627608
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AB03
Product key	ABLCAC
GTIN	4055626337845
Weight per piece (including packing)	12.698 g
Weight per piece (excluding packing)	12.698 g
Customs tariff number	85389099
Country of origin	PL



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#### Technical data

#### Notes

votes	
General	Nut must be ordered separately
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.
	<ul> <li>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.</li> </ul>
	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul> <li>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).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
	<ul> <li>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</li> </ul>
	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
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Use a protective cap to protect connectors that are not in use.</li> <li>The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products</li> </ul>
	Operate the connector only when it is fully plugged in.

• Operate the connector only when it is fully plugged in and

• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the

standards.



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	<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>
	<ul> <li>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).</li> </ul>
roduct properties	
Product type	Panel feed-through
Product family	PRC 35
Number of positions	3
Connection profile	2+PE
Coding	AD
Insulation characteristics	
Protection class	II .
Degree of pollution	2
Onnection data  Conductor connection	
Tightening torque	2.5 Nm ±0.1 Nm (Tightening torque nut)
Dimensional drawing	11.42 - 11.42 - 12.42 - 12.
Width	35 mm
Height	35 mm
Length	29.5 mm
Hole diameter	25.5 mm
Wrench size, union nut	32 mm
ectrical 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
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)

21.4 A (With 6 mm² conductor cross section and 85 °C in

accordance with 2 PfG 1915)



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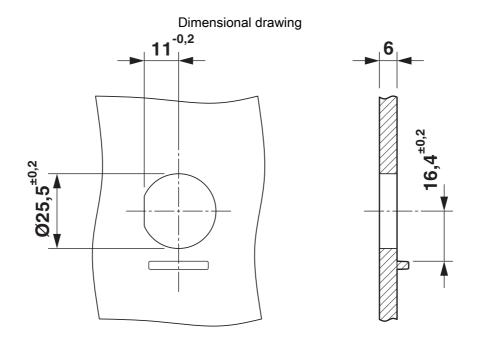
	32 A (with AWG 10, in accordance with UL 2237)
nanical properties	
echanical data	
Insertion/withdrawal cycles	100
Insertion force	30 N ±10 N
erial specifications	
Color	black
Color of the housing part	black
Flammability rating according to UL 94	V0
Insulating material group	I / CTI 600
Seal material	EPDM
Housing material	PPE
Contact material	Cu alloy
Contact surface material	Ag
Contact carrier material	PPE
O-ring material	Silicon
ole/line	
Stripping length of the individual wire	12 mm
unting	
unting  Mounting type	Rear mounting
-	Rear mounting
Mounting type rironmental and real-life conditions	Rear mounting
Mounting type	Rear mounting  IP66 / IP68 (2m / 24h) / IP69K
Mounting type rironmental and real-life conditions mbient conditions	
Mounting type  fronmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K IP65 (Longitudinal watertightness, only in conjunction with
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)	IP66 / IP68 (2m / 24h) / IP69K IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range)
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection	IP66 / IP68 (2m / 24h) / IP69K IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range) IP66 / IP68 (2m / 24h) / IP69K
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection  Ambient temperature (operation)  Ambient temperature (storage/transport)	IP66 / IP68 (2m / 24h) / IP69K  IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range)  IP66 / IP68 (2m / 24h) / IP69K  -40 °C 105 °C (dependent on the derating curve)
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ambient temperature (assembly)	IP66 / IP68 (2m / 24h) / IP69K IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range) IP66 / IP68 (2m / 24h) / IP69K -40 °C 105 °C (dependent on the derating curve) -40 °C 70 °C
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection  Ambient temperature (operation)  Ambient temperature (storage/transport)	IP66 / IP68 (2m / 24h) / IP69K IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range) IP66 / IP68 (2m / 24h) / IP69K -40 °C 105 °C (dependent on the derating curve) -40 °C 70 °C
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ambient temperature (assembly)	IP66 / IP68 (2m / 24h) / IP69K IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range) IP66 / IP68 (2m / 24h) / IP69K -40 °C 105 °C (dependent on the derating curve) -40 °C 70 °C
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ambient temperature (assembly)  Indards and regulations	IP66 / IP68 (2m / 24h) / IP69K IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range) IP66 / IP68 (2m / 24h) / IP69K -40 °C 105 °C (dependent on the derating curve) -40 °C 70 °C 5 °C 85 °C
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ambient temperature (assembly)  Indards and regulations	IP66 / IP68 (2m / 24h) / IP69K  IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range)  IP66 / IP68 (2m / 24h) / IP69K  -40 °C 105 °C (dependent on the derating curve)  -40 °C 70 °C  5 °C 85 °C
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ambient temperature (assembly)  Indards and regulations	IP66 / IP68 (2m / 24h) / IP69K IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range) IP66 / IP68 (2m / 24h) / IP69K -40 °C 105 °C (dependent on the derating curve) -40 °C 70 °C 5 °C 85 °C  IEC 61984:2008 EN 61984:2008
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ambient temperature (assembly)  Indards and regulations	IP66 / IP68 (2m / 24h) / IP69K  IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range)  IP66 / IP68 (2m / 24h) / IP69K  -40 °C 105 °C (dependent on the derating curve)  -40 °C 70 °C  5 °C 85 °C  IEC 61984:2008  EN 61984:2008  DIN EN IEC 61535:2020
Mounting type  fironmental and real-life conditions  mbient conditions  Degree of protection (when plugged in)  Degree of protection (not plugged in)  Degree of protection  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ambient temperature (assembly)  Indards and regulations	IP66 / IP68 (2m / 24h) / IP69K IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range) IP66 / IP68 (2m / 24h) / IP69K -40 °C 105 °C (dependent on the derating curve) -40 °C 70 °C 5 °C 85 °C  IEC 61984:2008 EN 61984:2008 DIN EN IEC 61535:2020 IEC 61535:2019



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### Drawings



Housing cutout



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1627608

 <b>TÜV Rheinland</b> Approval ID: R 60168292 00	01			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	690 V	35 A	-	-

<b>TÜV Rheinland</b> Approval ID: R 60117908				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	500 V	21.4 A	-	-

TÜV Rheinland Approval ID: R 60168255	0001			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	500 V	32 A	-	-

	NV
_	pproval ID: TAE00002KM



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### Classifications

#### **ECLASS**

UNSPSC 21.0

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109
ETIM	
ETIM 9.0	EC003569
UNSPSC	

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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#### Accessories

CRIMPFOX-1,6/2,5-ED-4,0 - Crimping pliers

1687419

https://www.phoenixcontact.com/us/products/1687419



Crimping pliers, for turned contacts, CK 1.6 ED... and CK 2.5 ED...

#### CK2,5-M-2,5 AG - Crimp contact

1409207

https://www.phoenixcontact.com/us/products/1409207



Crimp contact, Range of articles: PRC 35, max. conductor cross section:  $2.5 \, \text{mm}^2$ , rated voltage: 690 V AC, rated current: 24 A, Connection method: Crimp connection, Contact connection type: Pin, Crimping recommendation: Crimp the conductors with the crimp contact in accordance with DIN EN 60352-2.



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#### CK2,5-M-4 AG - Crimp contact

1409208

https://www.phoenixcontact.com/us/products/1409208



Crimp contact, Range of articles: PRC 35, max. conductor cross section: 4 mm², rated voltage: 690 V AC, rated current: 32 A, Connection method: Crimp connection, Contact connection type: Pin, Crimp the wire with the crimp contact in accordance with DIN EN 60352-2

#### CK2,5-M-6 AG - Crimp contact

1409209

https://www.phoenixcontact.com/us/products/1409209



Crimp contact, Range of articles: PRC 35, max. conductor cross section:  $6~\text{mm}^2$ , rated voltage: 690~V AC, rated current: 35~A, Connection method: Crimp connection, Contact connection type: Pin, Crimp the wire with the crimp contact in accordance with DIN EN 60352-2



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#### 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

#### 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)



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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 x 2.5 x 75 mm, 2-component grip, with non-slip grip

#### CRIMPFOX-4,0-ED-6,00 - Crimping pliers

1205859

https://www.phoenixcontact.com/us/products/1205859



Crimping pliers, for CK 4,0... contacts, for 4.0 - 6.0 mm<sup>2</sup> conductor cross sections



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#### FT NUT M25 BK - Nut

1457937

https://www.phoenixcontact.com/us/products/1457937



Nut, Range of articles: PRC 35, color: black

#### FT NUT M25 GN - Nut

1049830

https://www.phoenixcontact.com/us/products/1049830



Nut, Range of articles: PRC 35, color: green, NOTE: For indoor use only



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#### FT NUT M25 BU - Nut

1049831

https://www.phoenixcontact.com/us/products/1049831



Nut, Range of articles: PRC 35, color: blue, NOTE: For indoor use only

#### FT NUT M25 GY - Nut

1049832

https://www.phoenixcontact.com/us/products/1049832



Nut, Range of articles: PRC 35, color: gray, NOTE: For indoor use only

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