

Device connector, rear mounting - PRC 5-FT25-MC2,5-150 - 1409211

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Circular connectors (device-side), Range of articles: PRC, Device connector, rear mounting, housing material: PPE, color: black, number of positions: 5, max. conductor cross section: 2.5 mm², nom. voltage: 690 V AC, rated current: 24 A, Connection method: Crimp connection, Type of contact: Pin, cable length: 150



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| GTIN |  4 046356 864336 |
| GTIN | 4046356864336 |
| Weight per Piece (excluding packing) | 46.000 g |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

General data

| | |
|--|---------------------------------|
| Number of positions | 5 |
| Protection class | II |
| Color | black |
| Locking type | Snap-in locking |
| Insertion/withdrawal cycles | 100 |
| Pull-out-force | 175 N ± 50 N |
| Insertion force | 40 N ±10 N |
| Degree of protection (not plugged in) | IP65 (Lengthwise waterproofing) |
| Degree of protection (when plugged in) | IP66 / IP68 (2m / 24h) |

Connection data

Device connector, rear mounting - PRC 5-FT25-MC2,5-150 - 1409211

Technical data

Connection data

| | |
|---------------------------------------|---|
| Rated current | 24 A (With 2.5 mm ² conductor cross section in accordance with IEC 61984) |
| | 20 A (With 2.5 mm ² conductor cross section in accordance with IEC 61535) |
| | 14.1 A (With 2.5 mm ² conductor cross section and 85 °C in accordance with 2 PfG 1915) |
| | 24 A (With 2.5 mm ² /AWG 14, in accordance with UL 2238) |
| 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 voltage (III/2) | 690 V |
| Torque | 2.5 Nm ±0.1 Nm (Tightening torque nut) |
| Wrench size, union nut | 32 mm |
| Type of contact | Pin |
| Conductor cross section flexible max. | 2.5 mm ² |

Material data

| | |
|--|-----|
| Contact material | Cu |
| Contact surface material | Ag |
| Contact carrier material | PPE |
| Flammability rating according to UL 94 | V0 |

Conductor data

| | |
|--------------------------------|--|
| Fixed cable length | 150 mm |
| Single wire, material | PVC |
| Single wire, color | blue, black, gray, brown, green/yellow |
| Wire diameter incl. insulation | 3.65 mm ±0.15 mm |

Standards and Regulations

| | |
|--|--|
| Flammability rating according to UL 94 | V0 |
| CE safety note | <ul style="list-style-type: none">• 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 style="list-style-type: none">• 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. |
| | <p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> |
| | <ul style="list-style-type: none">• Assembled products may not be manipulated or improperly opened. |

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Standards and Regulations

| | |
|--|---|
| | <ul style="list-style-type: none">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). |
| | <ul style="list-style-type: none">When using the product in direct connection with third-party manufacturers, the user is responsible. |
| | <ul style="list-style-type: none">For operating voltages > 50 V AC, conductive connector housings must be grounded |
| | <ul style="list-style-type: none">Ensure that the protective or functional ground has been properly connected. |
| | <ul style="list-style-type: none">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 |
| | <ul style="list-style-type: none">Observe the corresponding technical data. You will find information:<ul style="list-style-type: none">On the productOn the packing labelIn the supplied documentationOnline at phoenixcontact.com/products under the product |
| | <ul style="list-style-type: none">Only use tools recommended by Phoenix Contact |
| | <ul style="list-style-type: none">The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product. |
| | <ul style="list-style-type: none">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 |
| | <ul style="list-style-type: none">Operate the connector only when it is fully plugged in. |
| | <ul style="list-style-type: none">Operate the connector only when it is fully plugged in and interlocked. |
| | <ul style="list-style-type: none">Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards. |
| | <ul style="list-style-type: none">Observe the minimum bending radius of the cable. Lay the cable without twisting it. |
| | <ul style="list-style-type: none">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). |

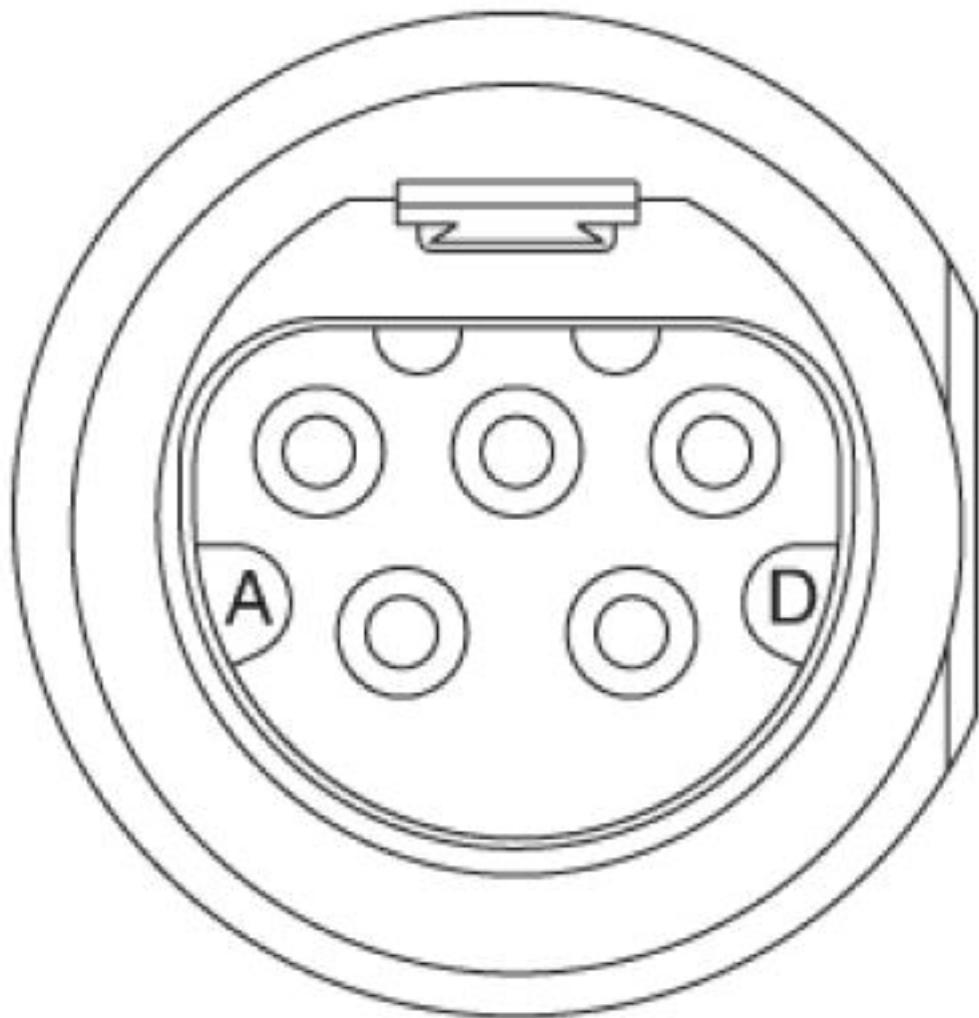
Environmental Product Compliance

| | |
|------------|---|
| | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Device connector, rear mounting - PRC 5-FT25-MC2,5-150 - 1409211

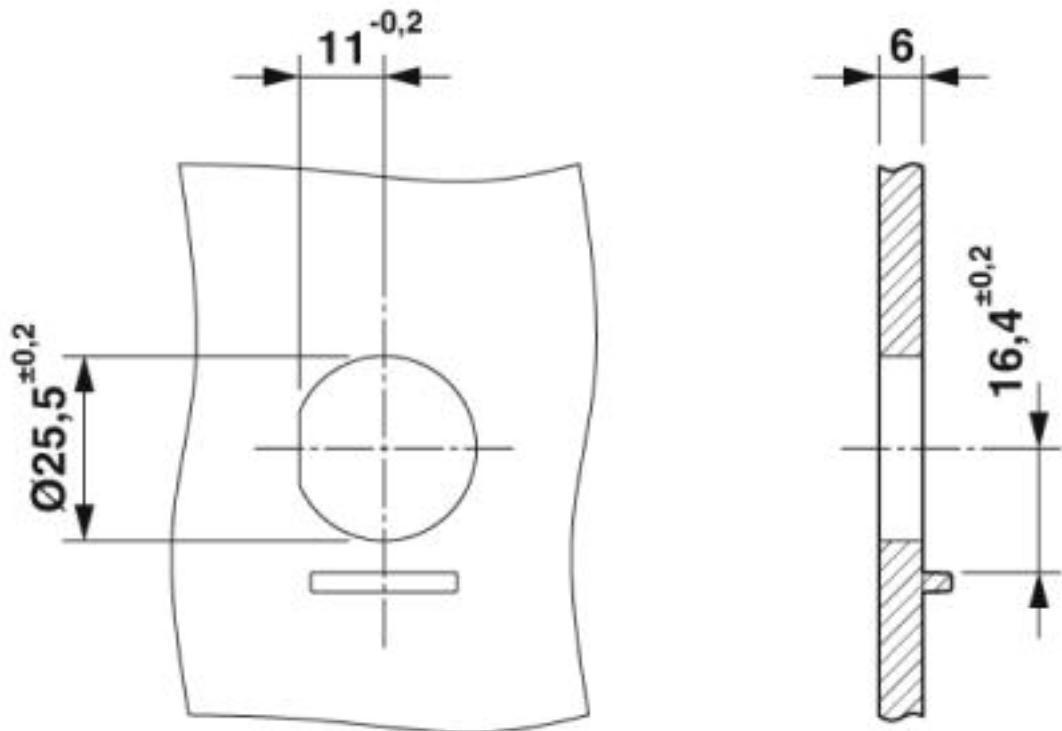
Schematic diagram



Connector pin assignment

Device connector, rear mounting - PRC 5-FT25-MC2,5-150 - 1409211

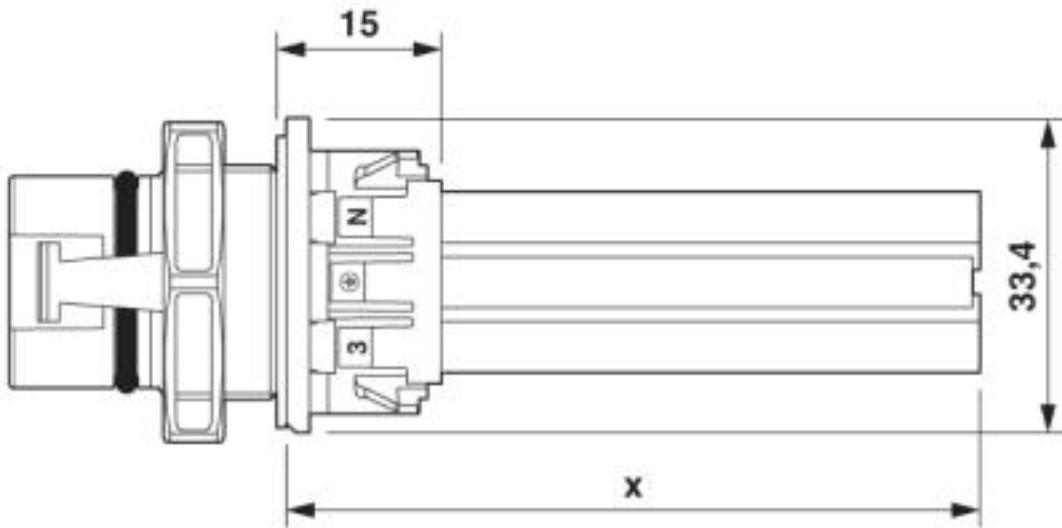
Dimensional drawing



Housing cutout

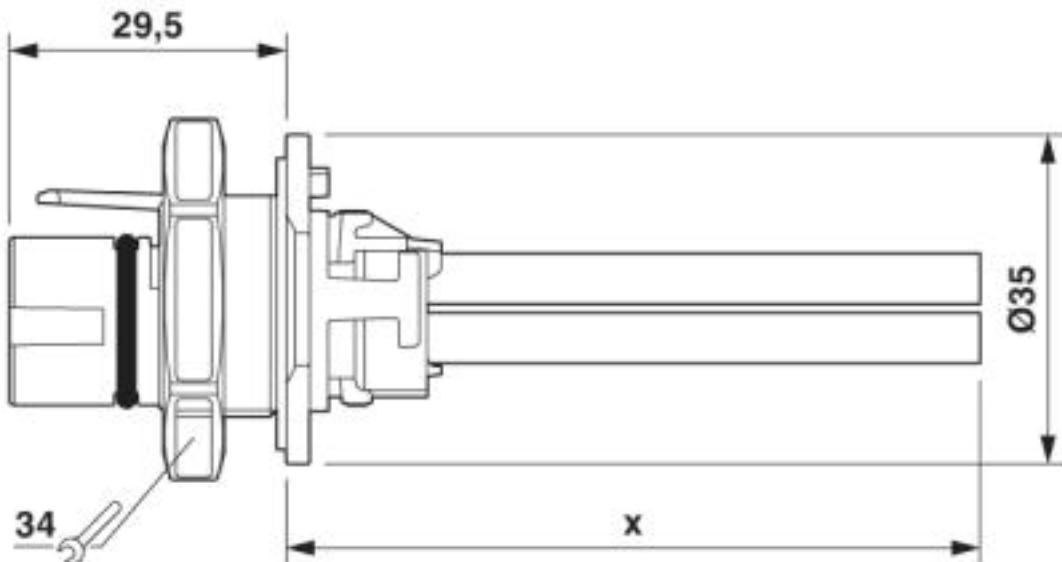
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Dimensional drawing



Dimensional drawing

Dimensional drawing



Dimensional drawing

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27260700 |
| eCl@ss 4.1 | 27260700 |
| eCl@ss 5.0 | 27260700 |
| eCl@ss 5.1 | 27260700 |
| eCl@ss 6.0 | 27260700 |
| eCl@ss 7.0 | 27440102 |
| eCl@ss 8.0 | 27440102 |
| eCl@ss 9.0 | 27440103 |

ETIM

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| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002061 |
| ETIM 6.0 | EC002061 |

UNSPSC

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|---------------|----------|
| UNSPSC 6.01 | 30211923 |
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11 | 39121522 |
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2 | 39121413 |

Approvals

Approvals

Approvals

DNV GL / TÜV Rheinland / TÜV Rheinland / UL Listed / cUL Listed / EAC / EAC / cULus Listed

Ex Approvals

Approval details

| | | | |
|--------|---|---|------------|
| DNV GL |  | https://approvalfinder.dnvgl.com/ | TAE00002KM |
|--------|---|---|------------|

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Approvals

| | | | |
|----------------------------|---|---|-----------------|
| TÜV Rheinland |  | http://www.certipedia.com | R 60117904-0002 |
| Nominal voltage UN | | 690 V | |
| Nominal current IN | | 35 A | |
| mm ² /AWG/kcmil | | 6 | |

| | | | |
|----------------------------|---|---|-----------------|
| TÜV Rheinland |  | http://www.certipedia.com | R 60117904-0001 |
| Nominal voltage UN | | 500 V | |
| Nominal current IN | | 32 A | |
| mm ² /AWG/kcmil | | 6 | |

| | | | |
|----------------------------|---|---|------------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E221474-20150513 |
| Nominal voltage UN | | 600 V | |
| Nominal current IN | | 30 A | |
| mm ² /AWG/kcmil | | 2.5 | |

| | | | |
|----------------------------|---|---|------------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E221474-20150513 |
| Nominal voltage UN | | 600 V | |
| Nominal current IN | | 30 A | |
| mm ² /AWG/kcmil | | 2.5 | |

| | | | |
|-----|---|--|---------|
| EAC |  | | B.01742 |
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Approvals

EAC



B.00767

cULus Listed



Accessories

Accessories

Protective cover

Protective cap - PRC COVER M - 1409237



Protective cap for 3 and 5-pos. PRC device plugs