

PRC 3-FT25-MC4-150 - Device connector rear mounting



1409220  
<https://www.phoenixcontact.com/us/products/1409220>

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Device connector rear mounting, Range of articles: PRC 35, housing material: PPE, color: black, number of positions: 3, max. conductor cross section: 4 mm<sup>2</sup>, rated voltage: 690 V AC, rated current: 32 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                          | 1409220            |
| Packing unit                         | 10 pc              |
| Minimum order quantity               | 10 pc              |
| Sales key                            | AB03               |
| Product key                          | ABLCAA             |
| Catalog page                         | Page 77 (NTK-2014) |
| GTIN                                 | 4046356867733      |
| Weight per piece (including packing) | 42.4 g             |
| Weight per piece (excluding packing) | 41 g               |
| Customs tariff number                | 85444290           |
| Country of origin                    | PL                 |

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## Technical data

### Notes

|                     |                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                        |

### Safety note

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety note | <ul style="list-style-type: none"><li>• 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.</li><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> <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"><li>• Assembled products may not be manipulated or improperly opened.</li><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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li><li>• Ensure that the protective or functional ground has been properly connected.</li><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><li>• Observe the corresponding technical data. You will find information:<ul style="list-style-type: none"><li>o On the product</li><li>o On the packing label</li><li>o In the supplied documentation</li><li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li></ul></li><li>• Only use tools recommended by Phoenix Contact</li><li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li><li>• 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a></li><li>• Operate the connector only when it is fully plugged in.</li><li>• Operate the connector only when it is fully plugged in and interlocked.</li></ul> |
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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 | 3                  |
| Connection profile  | 2+PE               |
| Coding              | AD                 |

Insulation characteristics

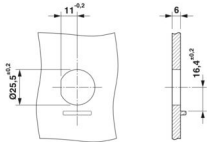
|                     |    |
|---------------------|----|
| Protection class    | II |
| Degree of pollution | 2  |

Connection data

Conductor connection

|                   |                                        |
|-------------------|----------------------------------------|
| Tightening torque | 2.5 Nm ±0.1 Nm (Tightening torque nut) |
|-------------------|----------------------------------------|

Dimensions

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

Mechanical characteristics

|                  |         |
|------------------|---------|
| Contact diameter | 2.45 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               | 32 A (With 4 mm <sup>2</sup> conductor cross section in accordance with IEC 61984)              |
|                             | 25 A (With 4 mm <sup>2</sup> conductor cross section in accordance with IEC 61535)              |
|                             | 17.3 A (With 4 mm <sup>2</sup> conductor cross section and 85 °C in accordance with 2 PfG 1915) |
|                             | 29 A (with AWG 12, in accordance with UL 2237)                                                  |

## Mechanical properties

### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | 100        |
| Insertion force             | 30 N ±10 N |

## Material specifications

|                                        |            |
|----------------------------------------|------------|
| Color                                  | black      |
| Color of the housing part              | black      |
| Material                               | PPE        |
| Flammability rating according to UL 94 | V0         |
| Insulating material group              | I / CTI600 |
| Seal material                          | Silicon    |
|                                        | EPDM       |
|                                        | Silicon    |
| 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 | 150 N ±50 N |
|----------------|-------------|

## Cable/line

|                                |                           |
|--------------------------------|---------------------------|
| Cable length                   | 150 mm                    |
| Single wire, material          | PVC                       |
| Wire diameter incl. insulation | 4.15 mm ±0.15 mm          |
| Single wire, cross section     | 4 mm <sup>2</sup>         |
| Single wire, color             | brown, blue, green/yellow |
| Cable cross section            | 4 mm <sup>2</sup>         |
| Halogen-free                   | no                        |

## Mounting

|               |               |
|---------------|---------------|
| Mounting type | Rear mounting |
|---------------|---------------|

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## 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                                                |
| 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                                                                |

## 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 |

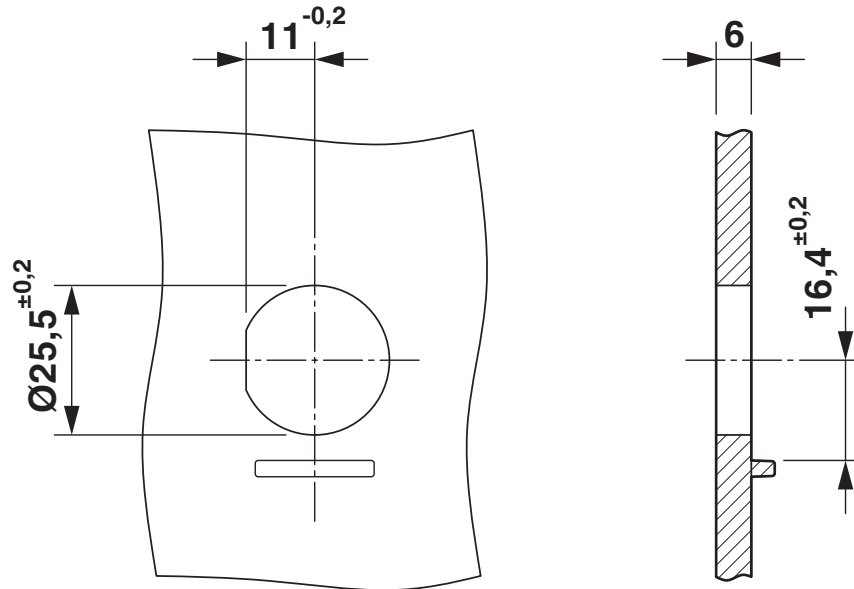
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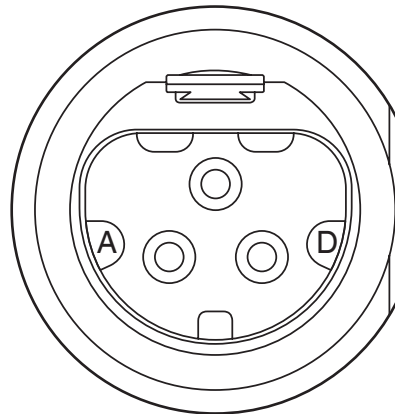
## Drawings

Dimensional drawing



Housing cutout

Schematic diagram



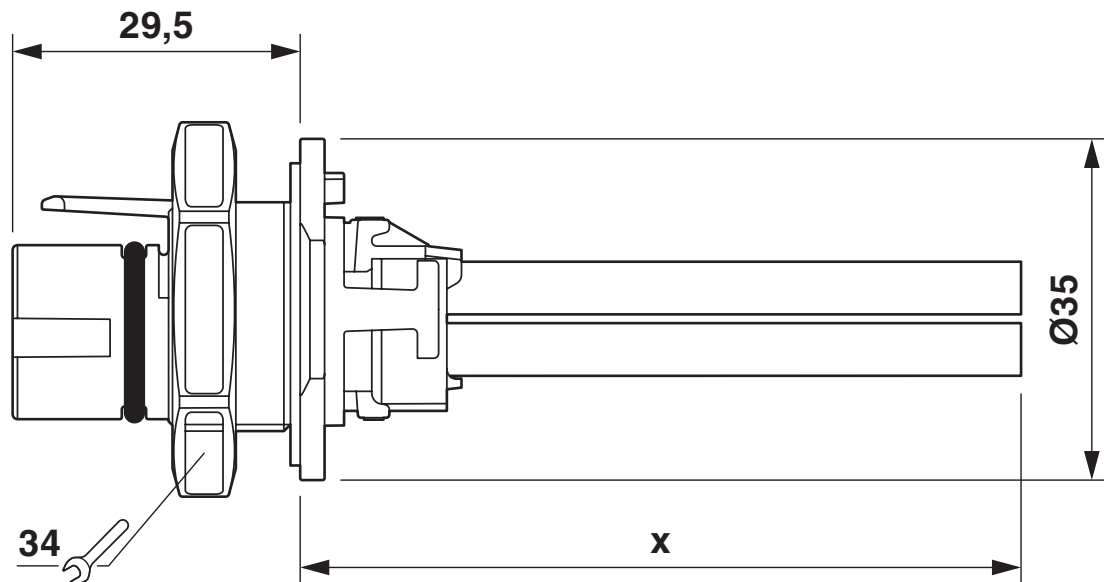
Connector pin assignment

# PRC 3-FT25-MC4-150 - Device connector rear mounting

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Dimensional drawing



Dimensional drawing

# PRC 3-FT25-MC4-150 - Device connector rear mounting



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1409220>

|                                                                                   |                                                   |                       |                   |                             |
|-----------------------------------------------------------------------------------|---------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>UL Listed</b><br>Approval ID: E221474-20150513 |                       |                   |                             |
|                                                                                   | Nominal voltage $U_N$                             | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                   | 600 V                                             | 35 A                  | -                 | 14 - 10                     |

|                                                                                   |                                                    |                       |                   |                             |
|-----------------------------------------------------------------------------------|----------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>cUL Listed</b><br>Approval ID: E221474-20150513 |                       |                   |                             |
|                                                                                   | Nominal voltage $U_N$                              | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                   | 600 V                                              | 35 A                  | 14 - 10           | -                           |

|                                                                                    |                                                      |                       |                   |                             |
|------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>TÜV Rheinland</b><br>Approval ID: R 60168292 0001 |                       |                   |                             |
|                                                                                    | Nominal voltage $U_N$                                | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                    | 690 V                                                | 35 A                  | -                 | -                           |

|                                                                                     |                                                 |                       |                   |                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>TÜV Rheinland</b><br>Approval ID: R 60117908 |                       |                   |                             |
|                                                                                     | Nominal voltage $U_N$                           | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                     | 500 V                                           | 21.4 A                | -                 | -                           |

|                                                                                     |                                                    |                       |                   |                             |
|-------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>cUL Listed</b><br>Approval ID: E468743-20190809 |                       |                   |                             |
|                                                                                     | Nominal voltage $U_N$                              | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                     | 600 V                                              | 25 A                  | -                 | -                           |

|                                                                                     |                                                   |                       |                   |                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>UL Listed</b><br>Approval ID: E468743-20190809 |                       |                   |                             |
|                                                                                     | Nominal voltage $U_N$                             | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                     | 600 V                                             | 32 A                  | -                 | -                           |

|                                                                                     |                                                      |                       |                   |                             |
|-------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>TÜV Rheinland</b><br>Approval ID: R 60168255 0001 |                       |                   |                             |
|                                                                                     | Nominal voltage $U_N$                                | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                     | 500 V                                                | 32 A                  | -                 | -                           |

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| Functional Safety<br>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                          | 17.3 A                         | -                 | - 4                           |

| DNV<br>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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## 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)

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