

# PP-RJ-SC - Patch panel



2703016  
<https://www.phoenixcontact.com/gb/products/2703016>

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Patch panel, RJ45 jack on screw terminal blocks, CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, shield contacting with strain relief

View from above right, cover open

## Product description

This product is the successor to FL-PP-RJ45-SC, item no. 2901643. Ethernet patch panels enable quick and easy connection between the field cabling and control cabinet cabling. The passive termination panels are a convenient alternative to the on-site assembly of RJ45 connectors.

## Your advantages

- Extended temperature range of -40 °C ... +75 °C
- Fast connection of the field cable
- Wiring space covered with front panel cover
- Tool-free shield contacting with strain relief
- PoE-capable in accordance with IEEE 802.3bt, type 4

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2703016       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | DNC334        |
| Product key                          | DNC334        |
| GTIN                                 | 4055626462875 |
| Weight per piece (including packing) | 68.32 g       |
| Weight per piece (excluding packing) | 66.69 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

#### Utilization restriction

|            |                                                               |
|------------|---------------------------------------------------------------|
| CCCex note | Use in potentially explosive areas is not permitted in China. |
|------------|---------------------------------------------------------------|

### Product properties

|              |              |
|--------------|--------------|
| Product type | Patch panel  |
| MTTF         | 105699 Years |

#### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree     | 2  |

### Electrical properties

|                                                 |                                                  |
|-------------------------------------------------|--------------------------------------------------|
| Maximum power dissipation for nominal condition | 0 W (passive module, no supply voltage required) |
| Rated insulation voltage                        | 85 V DC                                          |

### Interfaces

Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Serial transmission speed                  | 10/100/1000 Mbps                             |
| Frequency range                            | 125 MHz                                      |
| Connection method                          | Screw connection                             |
| Note on the connection method              | CAT5e                                        |
| Tightening torque                          | 0.22 Nm ... 0.25 Nm                          |
| Pin assignment                             | 1:1                                          |
| Transmission length                        | 100 m (including patch cables)               |
| Single conductor/terminal point, rigid     | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Single-wire/terminal point, flexible       | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Max. AWG conductor cross-section, flexible | 16                                           |
| Min. AWG conductor cross-section, flexible | 28                                           |
| Single-wire/terminal point, rigid AWG max. | 16                                           |
| Single-wire/terminal point, rigid AWG min. | 28                                           |
| Stripping length                           | 5 mm                                         |
| Transmission medium                        | Copper                                       |
| Output nominal voltage                     | < 57 V DC                                    |
| Maximum output power                       | 60 W                                         |
| Maximum output current                     | 725 mA (Per channel)                         |

Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

|                   |           |
|-------------------|-----------|
| Connection method | RJ45 jack |
|-------------------|-----------|

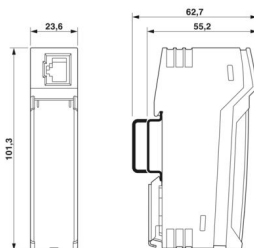
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## Dimensions

|                                                                                    |          |
|------------------------------------------------------------------------------------|----------|
| Dimensional drawing                                                                |          |
|  |          |
| Width                                                                              | 23.8 mm  |
| Height                                                                             | 101.3 mm |
| Depth                                                                              | 50 mm    |

## Material specifications

|                                        |                       |
|----------------------------------------|-----------------------|
| Color (Housing)                        | light gray (RAL 7035) |
| Material (Housing)                     | Plastic               |
| Flammability rating according to UL 94 | V0                    |

## Cable/line

|                         |                   |
|-------------------------|-------------------|
| External cable diameter | 5.5 mm ... 6.5 mm |
|-------------------------|-------------------|

## Mechanical tests

|                                                                    |                                                                          |
|--------------------------------------------------------------------|--------------------------------------------------------------------------|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | Operation: 10 Hz ... 57 Hz, amplitude $\pm 3.5$ mm, 57 Hz ... 150 Hz, 5g |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27              | Operation: 30g for 11 ms, three shocks in each spatial direction         |
| Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27   | Operation: 10g for 16 ms, 1000 shocks in each spatial direction          |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                                                                             |
|-----------------------------------------|---------------------------------------------------------------------------------------------|
| Degree of protection                    | IP20 (Manufacturer's declaration)                                                           |
| Ambient temperature (operation)         | -40 °C ... 75 °C                                                                            |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C                                                                            |
| Altitude                                | $\leq 5000$ m (For restrictions, see the manufacturer's declaration for altitude operation) |
| Permissible humidity (operation)        | 10 % ... 95 % (non-condensing)                                                              |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

### UL

|                |                 |
|----------------|-----------------|
| Identification | UL 61010 Listed |
|----------------|-----------------|

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## Mounting

|               |                                                                                  |
|---------------|----------------------------------------------------------------------------------|
| Mounting type | DIN rail mounting, stationary                                                    |
| Assembly note | The product can be snapped onto all 35 mm DIN rails in accordance with EN 60715. |

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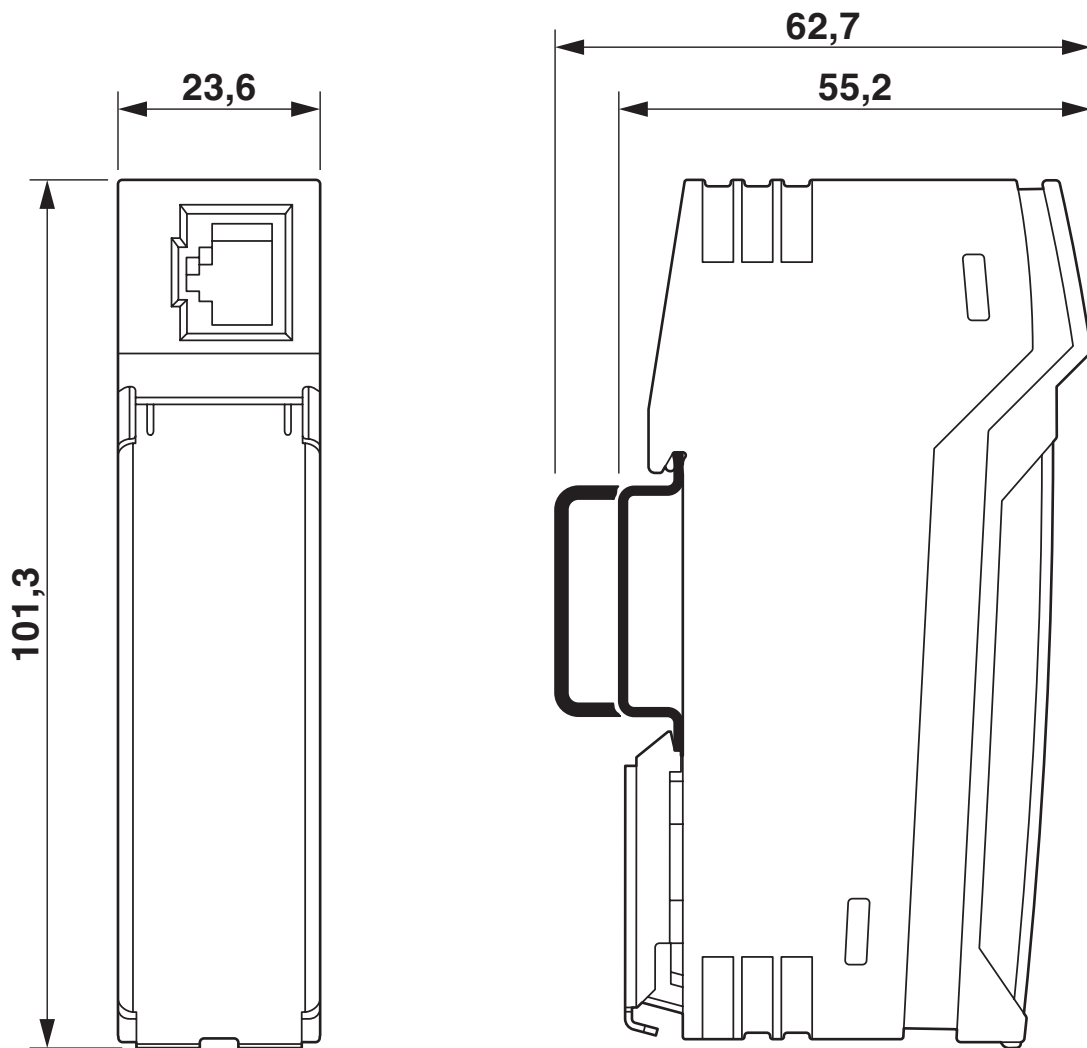
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## Drawings

Dimensional drawing



Compact housing

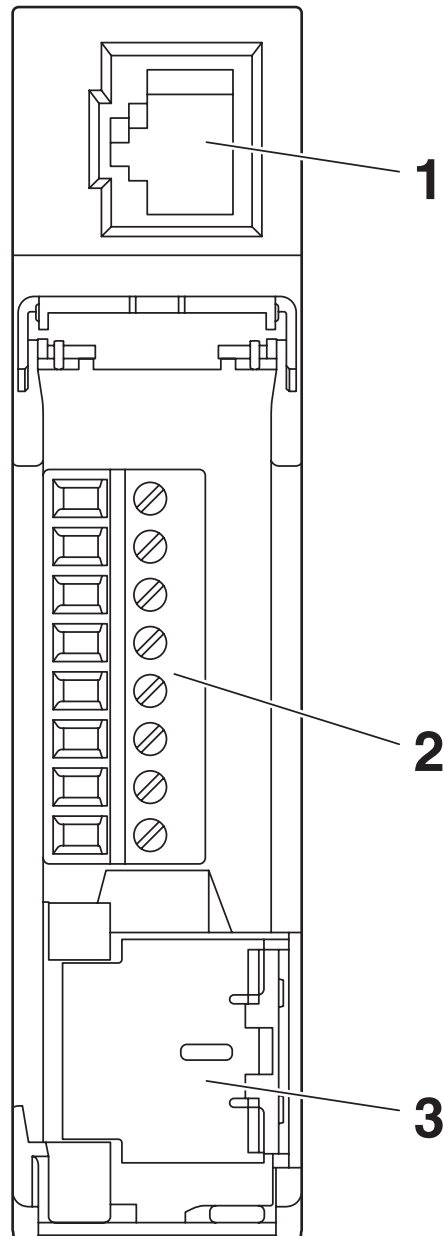
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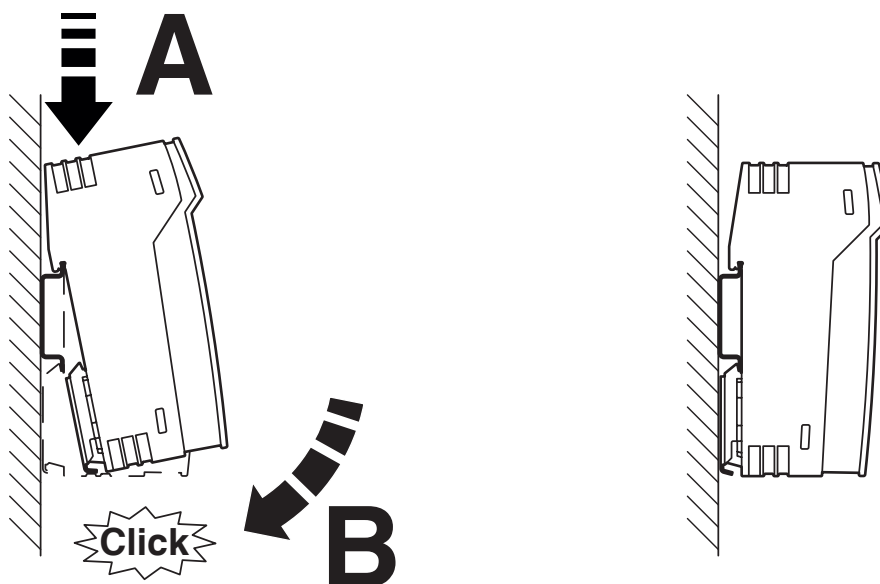


Schematic diagram



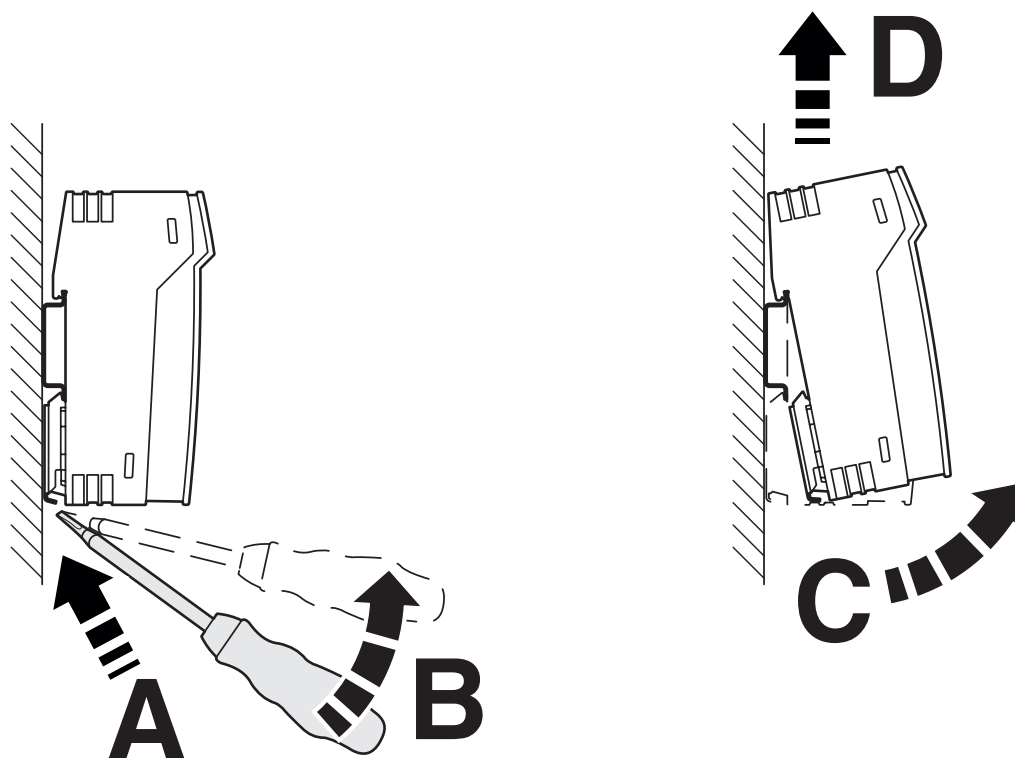
Front view

Schematic diagram



Mounting on a DIN rail

Schematic diagram



Removal

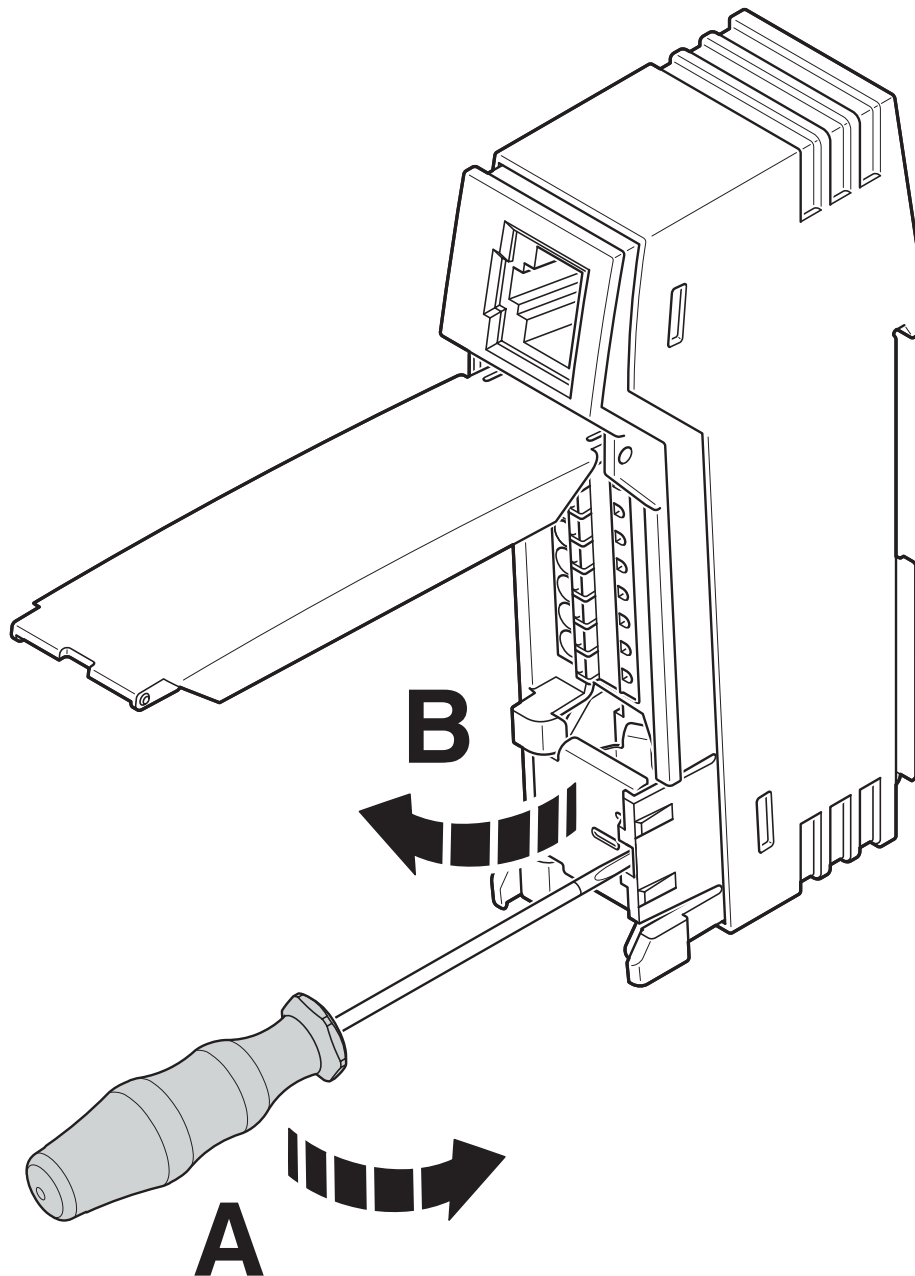
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Schematic diagram



Open shield contact spring

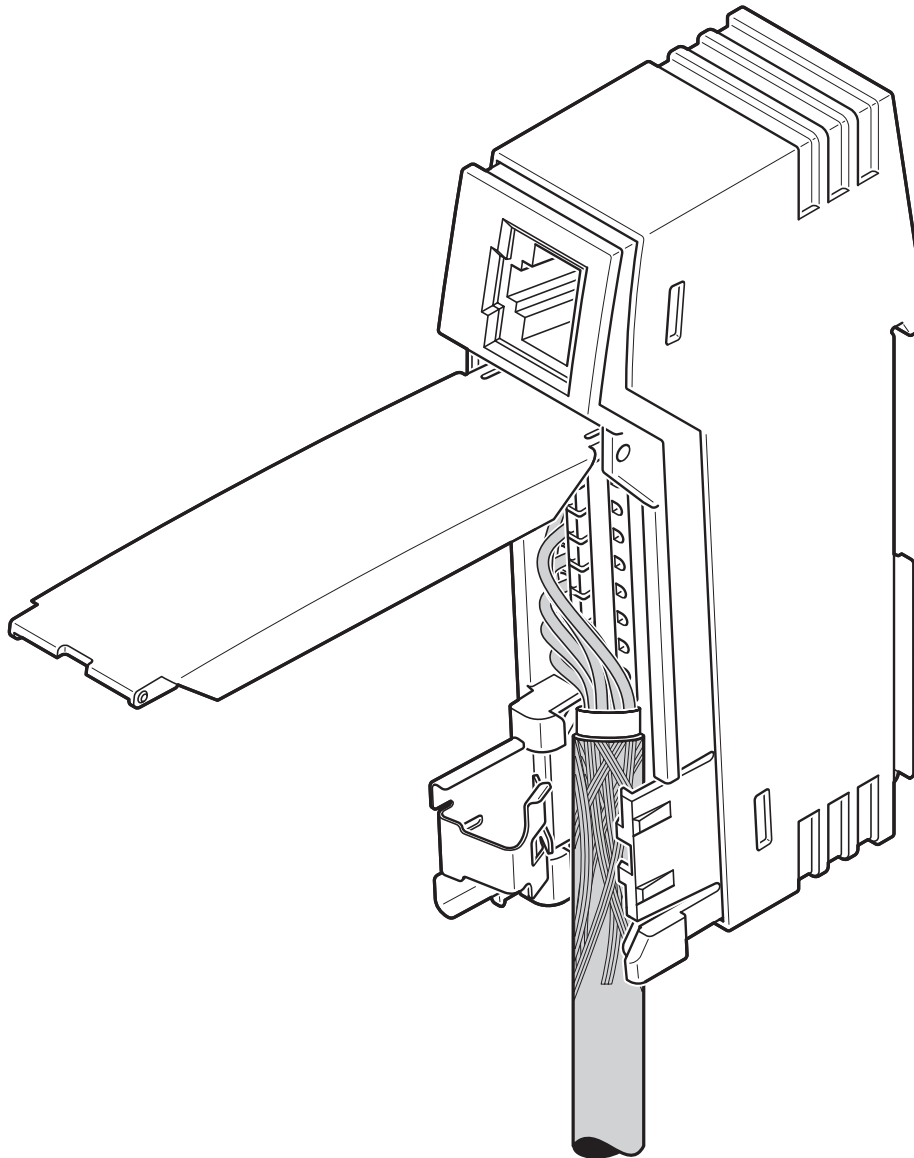
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Schematic diagram



Inserting the cable

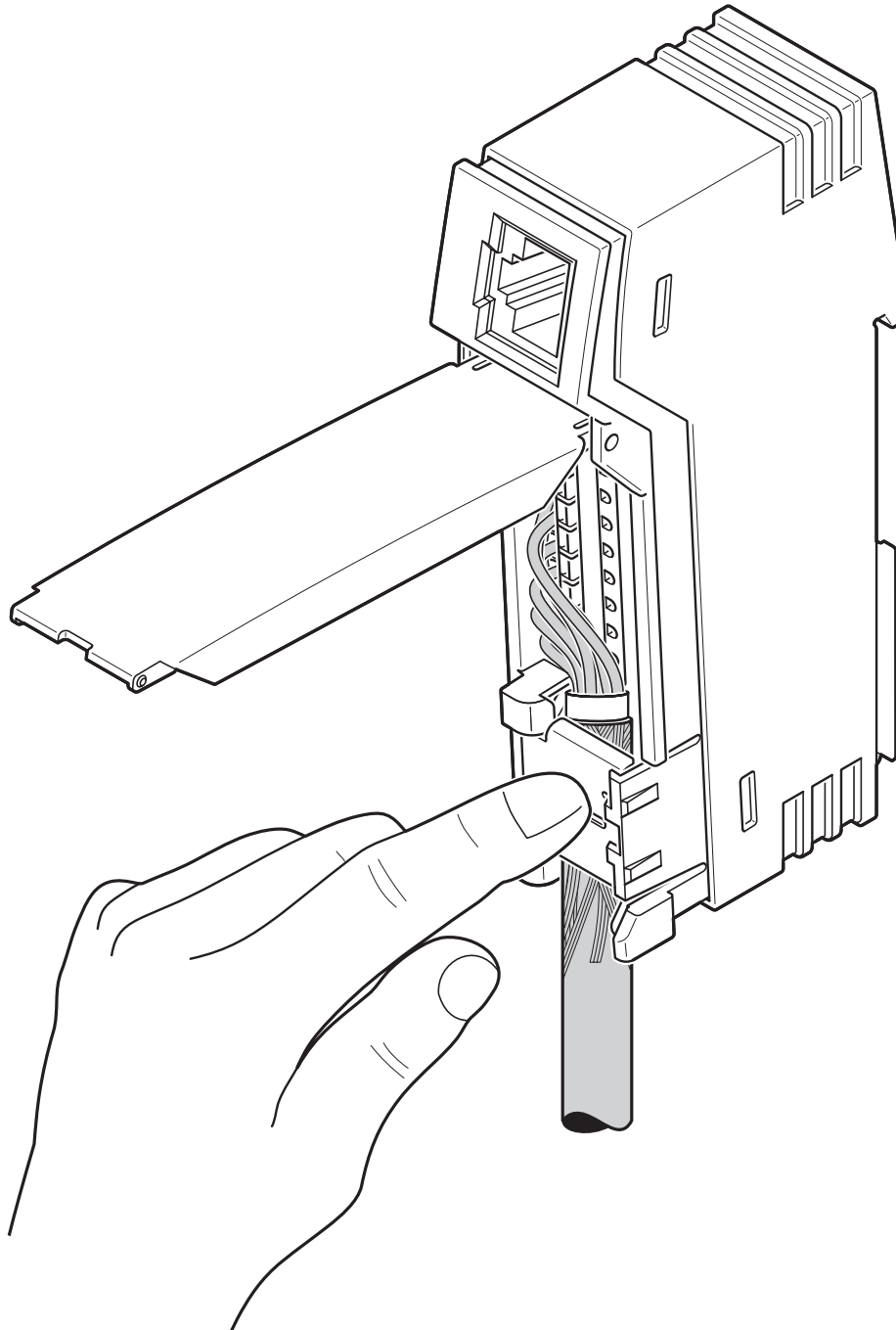
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Schematic diagram



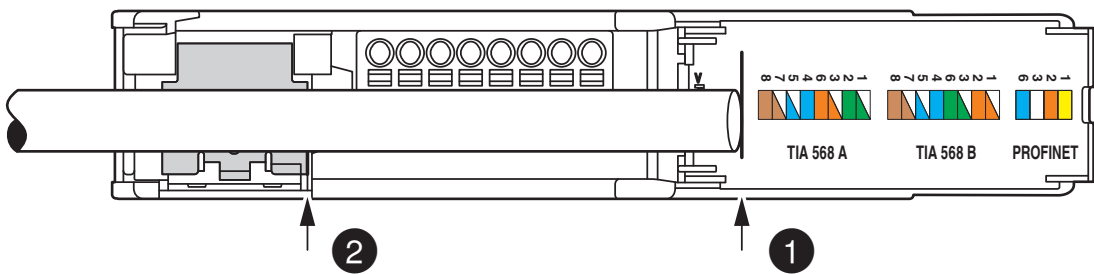
Close shield contact spring

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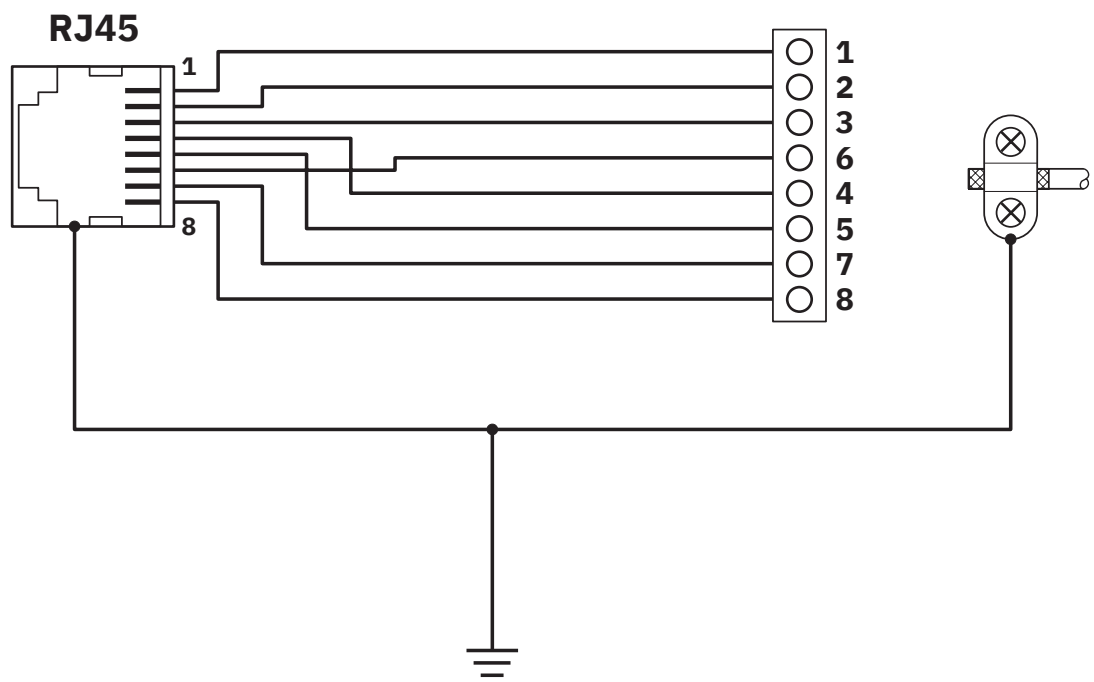
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Schematic diagram



Stripping length

Circuit diagram



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2703016>



**cULus Listed**

Approval ID: E238705

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19170112 |
| ECLASS-15.0 | 19170112 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001128 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43223300 |
|-------------|----------|

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## Environmental product compliance

### 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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