

# PP-RJ-IDC - Patch panel

2703019

<https://www.phoenixcontact.com/us/products/2703019>



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View from above right, cover open

Patch panel, RJ45 jack on IDC terminal blocks, CAT6, 10/100/1000 Mbps, DIN rail adapter, IP20, shield contacting with strain relief

## Product description

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. The IDC fast connection terminal blocks enable tool-free connection without stripping the single-core wires. The terminal blocks with inserted wires are simply pressed shut by hand. Observe the permissible single-core wire diameter and the permissible insulation material.

## 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	2703019
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	DN07
Product key	DNC334

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GTIN	4055626462899
Weight per piece (including packing)	60.67 g
Weight per piece (excluding packing)	57.3 g
Customs tariff number	85369010
Country of origin	DE

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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#### Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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### 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	250 MHz
Connection method	IDC connection
Note on the connection method	CAT6
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Single conductor/terminal point, rigid	0.14 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>
Single-wire/terminal point, flexible	0.14 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>
Max. AWG conductor cross-section, flexible	22
Min. AWG conductor cross-section, flexible	26
Single-wire/terminal point, rigid AWG max.	22
Single-wire/terminal point, rigid AWG min.	26
Wire diameter incl. insulation	1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request)
Frequency of connections between conductors of the same cross section	10
Transmission medium	Copper
Output nominal voltage	< 57 V DC
Maximum output power	60 W
Maximum output current	725 mA (Per channel)

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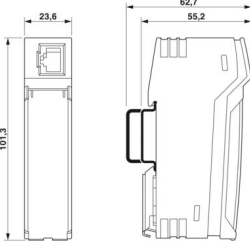
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Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

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
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## Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	: 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	: 30g for 11 ms, three shocks in each spatial direction
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	: 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
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## 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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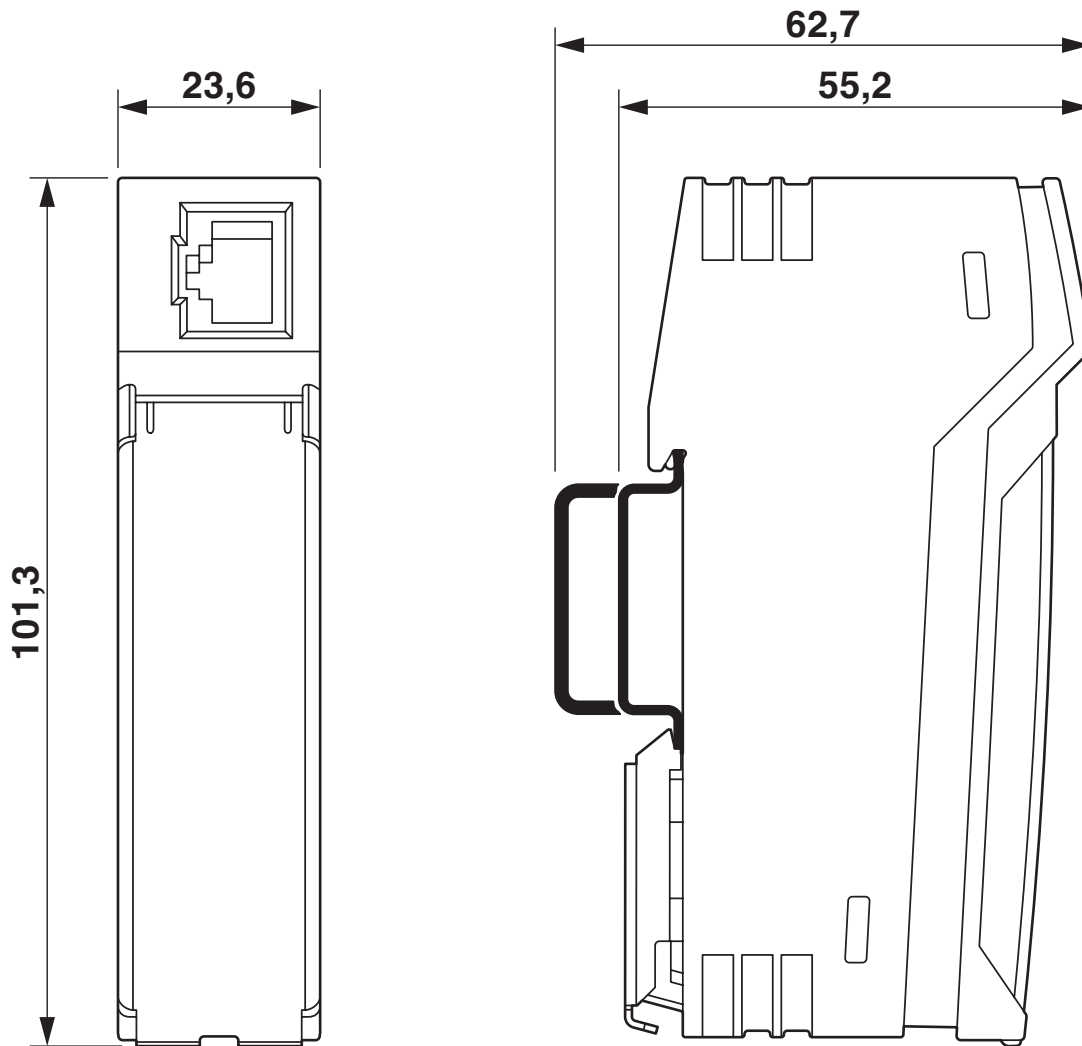
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## Drawings

Dimensional drawing



Compact housing

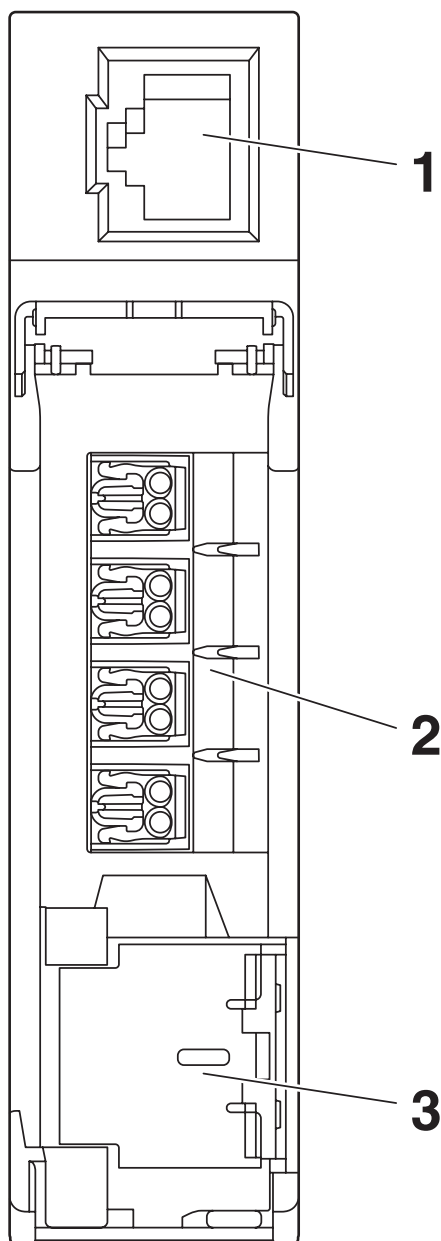
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Schematic diagram



Front view

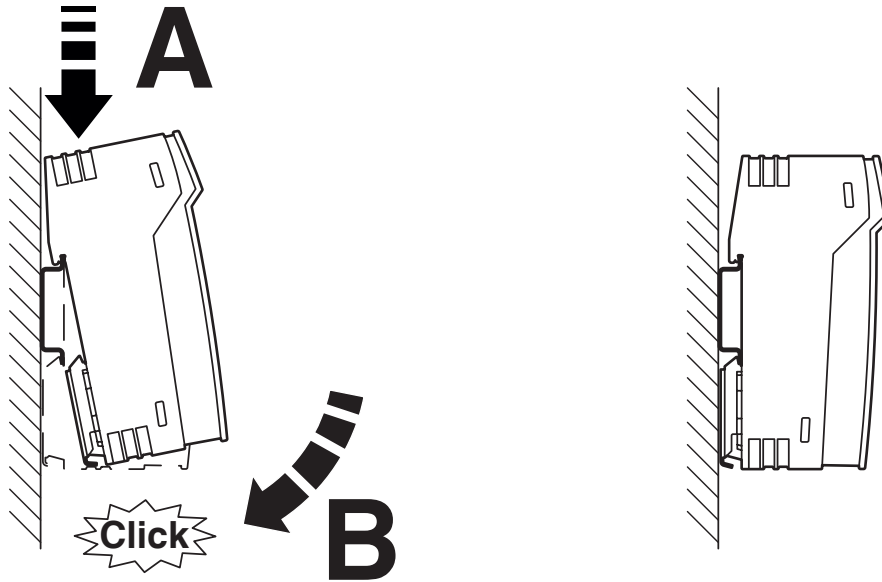
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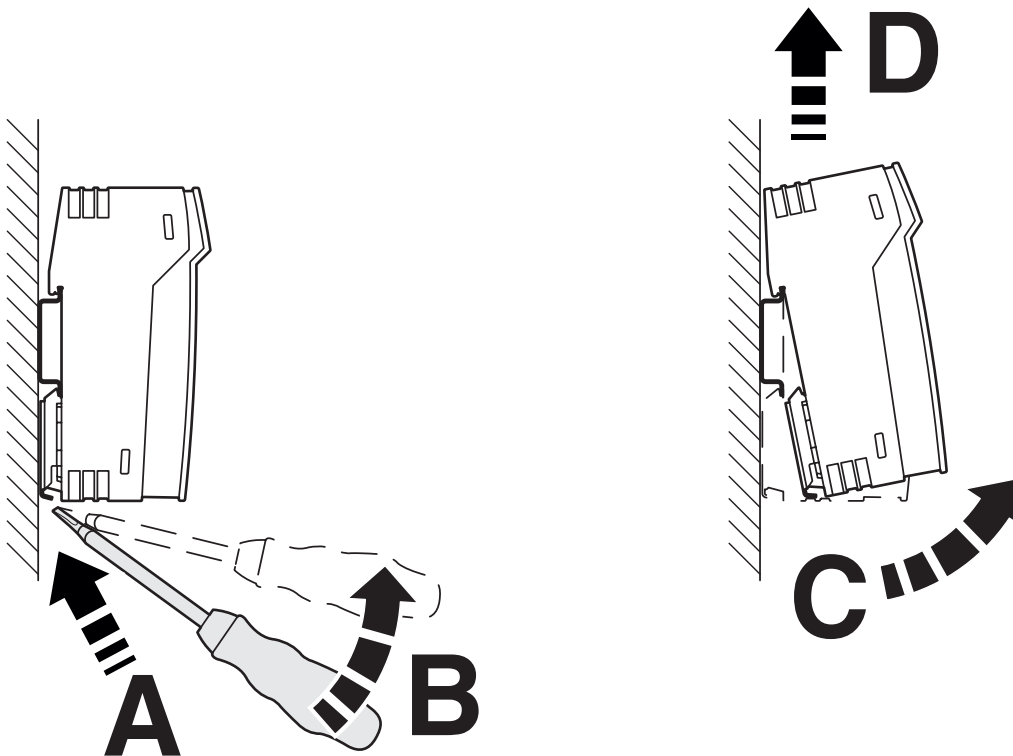


Schematic diagram



Mounting on a DIN rail

Schematic diagram



Removal

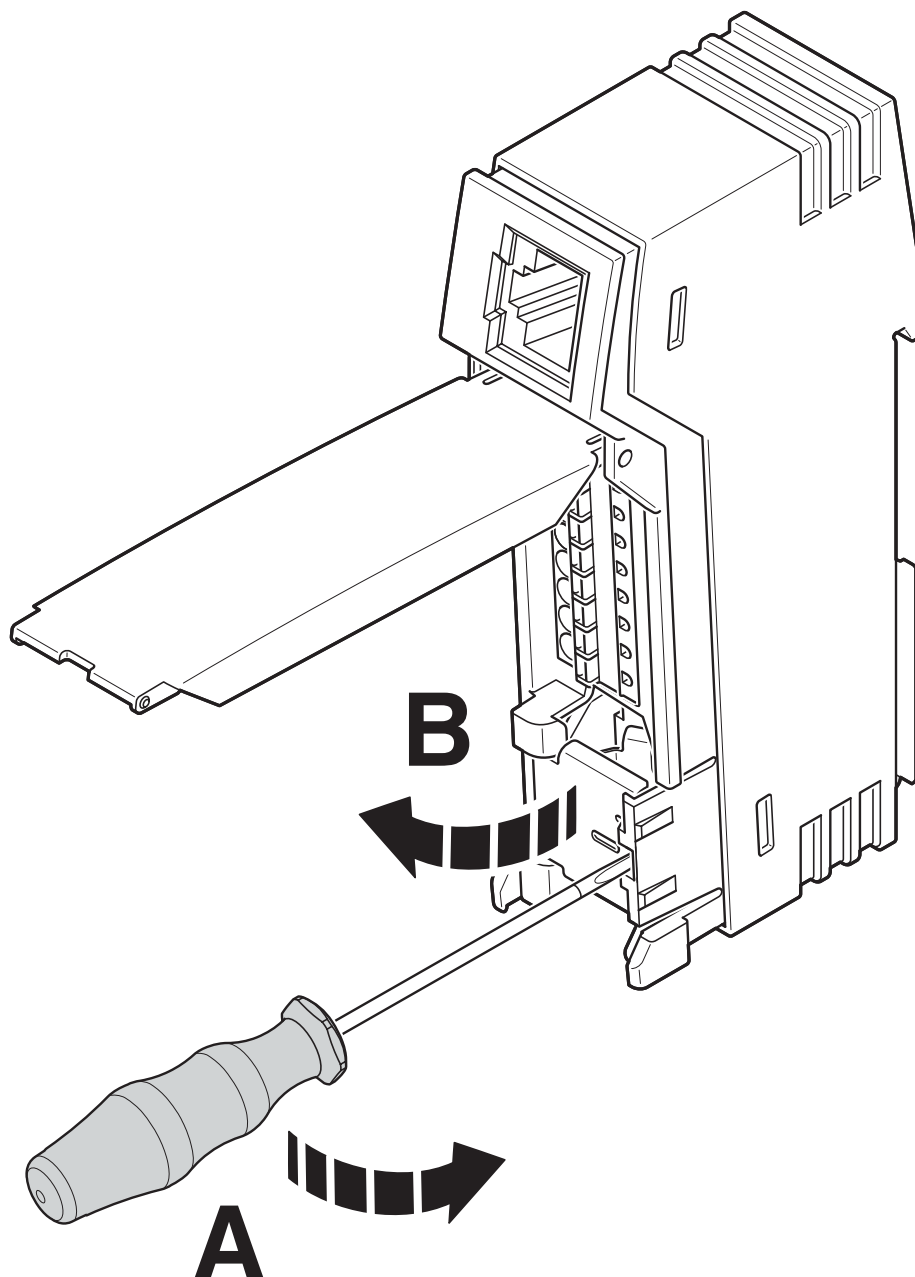
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Schematic diagram



Open shield contact spring

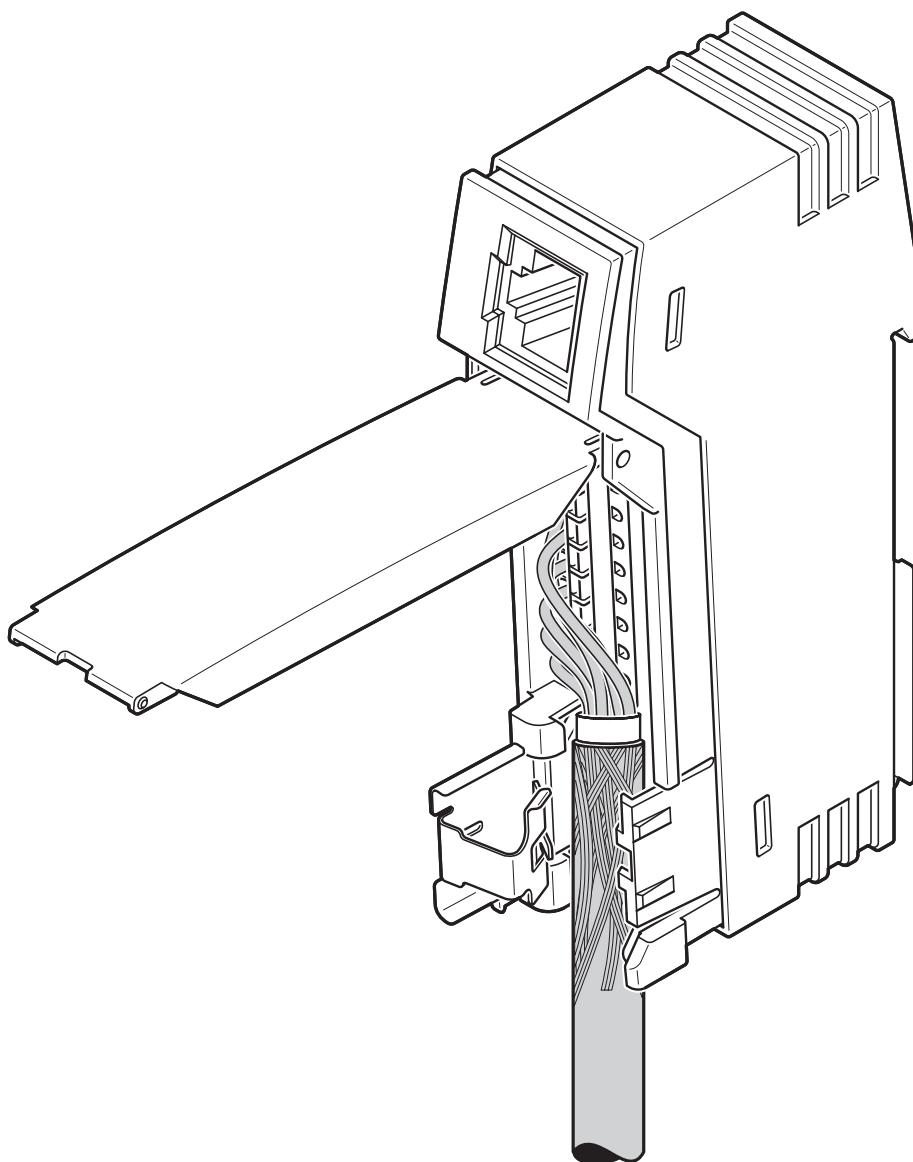
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Schematic diagram



Inserting the cable

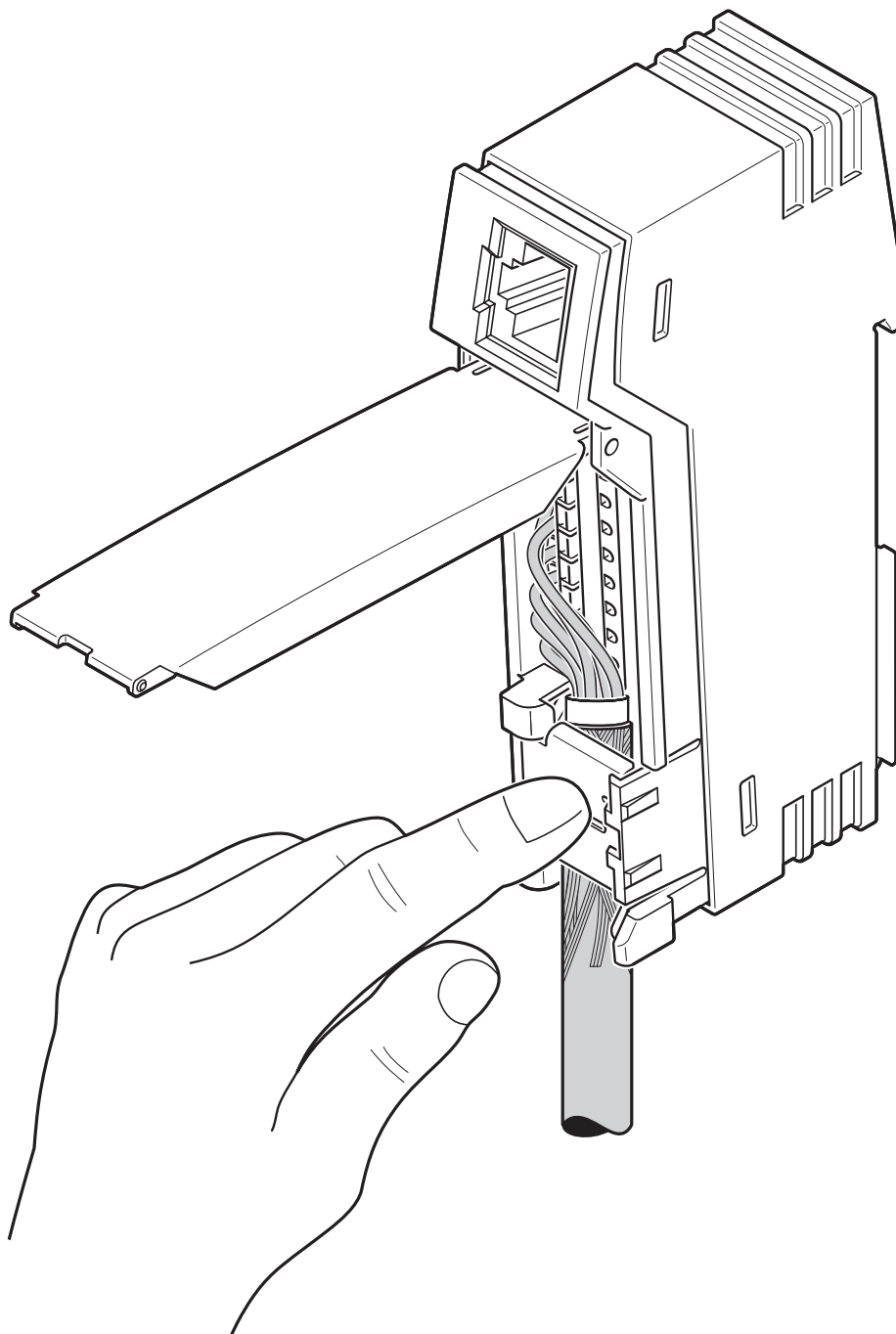
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Schematic diagram



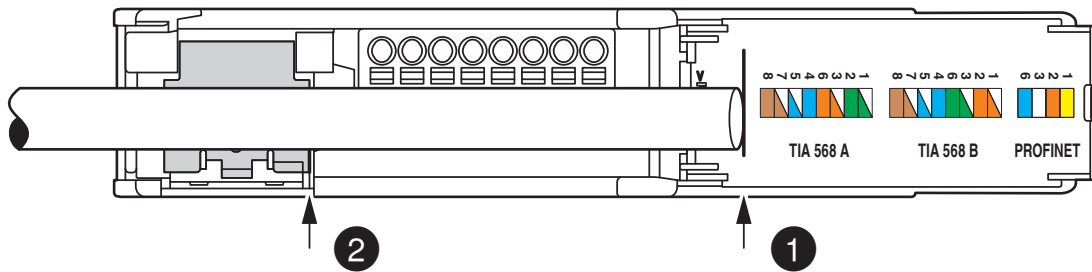
Close shield contact spring

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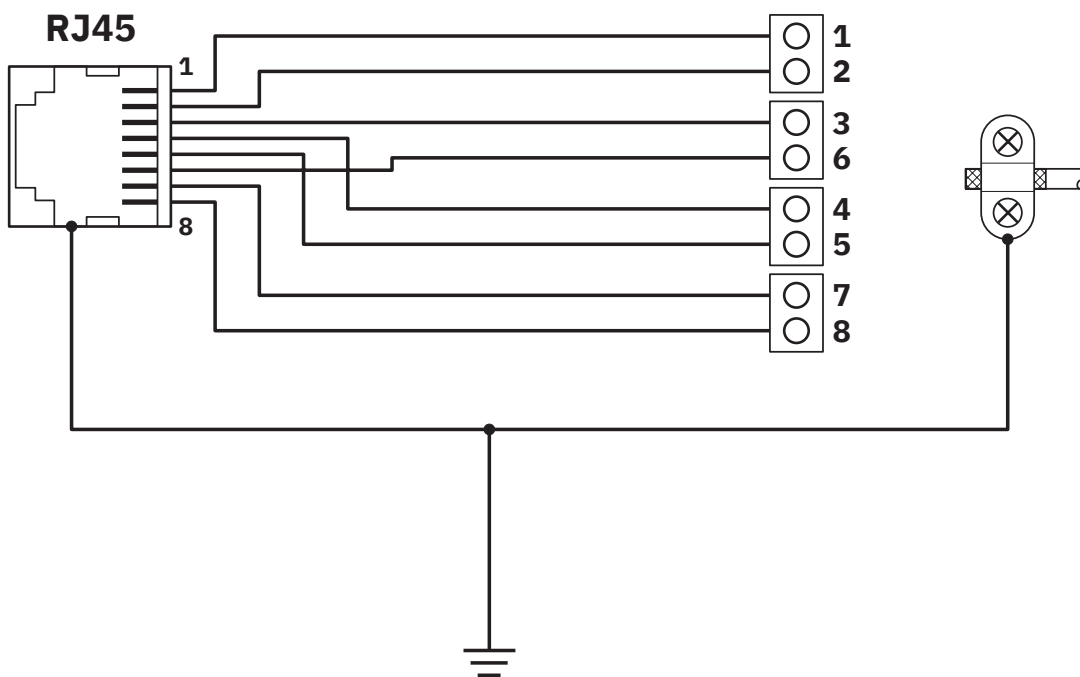
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Schematic diagram



Stripping length

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2703019>



**cULus Listed**

Approval ID: E238705

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## Classifications

### ECLASS

ECLASS-13.0	19170112
ECLASS-15.0	19170112

### ETIM

ETIM 10.0	EC001128
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### UNSPSC

UNSPSC 21.0	43223300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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