

# PP-RJ-SC - Patch panel



2703016  
<https://www.phoenixcontact.com/us/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

## 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
- Shipbuilding approval in accordance with DNV GL
- PoE-capable in accordance with IEEE 802.3bt, type 4

## Commercial data

Item number	2703016
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	DN07
Product key	DNC334
GTIN	4055626462875
Weight per piece (including packing)	72.23 g
Weight per piece (excluding packing)	65.23 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
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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 (In accordance with EN/IEC 60079-7, Annex H)

### 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 mm² ... 1.5 mm²
Single-wire/terminal point, flexible	0.14 mm² ... 1.5 mm²
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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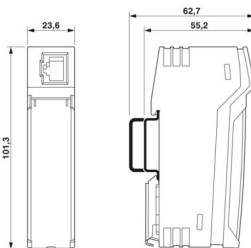
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## Dimensions

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) $\leq 2000$ m (Restrictions for ATEX applications)
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

## Approvals

### CE

Certificate	CE-compliant
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### ATEX

Identification	Ex II 3 G Ex ec IIC Gc
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Certificate	PxCIF18ATEX2703015U
Note	Please follow the special installation instructions in the documentation!

## UKEX

Identification	II 3 G Ex ec IIC Gc
Certificate	PxCIMA22UKEX2703015U

## UL, USA

Certificate	UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4
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## UL, Canada

Certificate	CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16
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## Corrosive gas test

Identification	ISA-S71.04-1985 G3 Harsh Group A
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## Shipbuilding

Identification	DNV GL
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## Shipbuilding data

Temperature	D
Humidity	B
Vibration	B
EMC	B

## Mounting

Mounting type	DIN rail mounting
Useable DIN rail type	DIN rail: 35 mm

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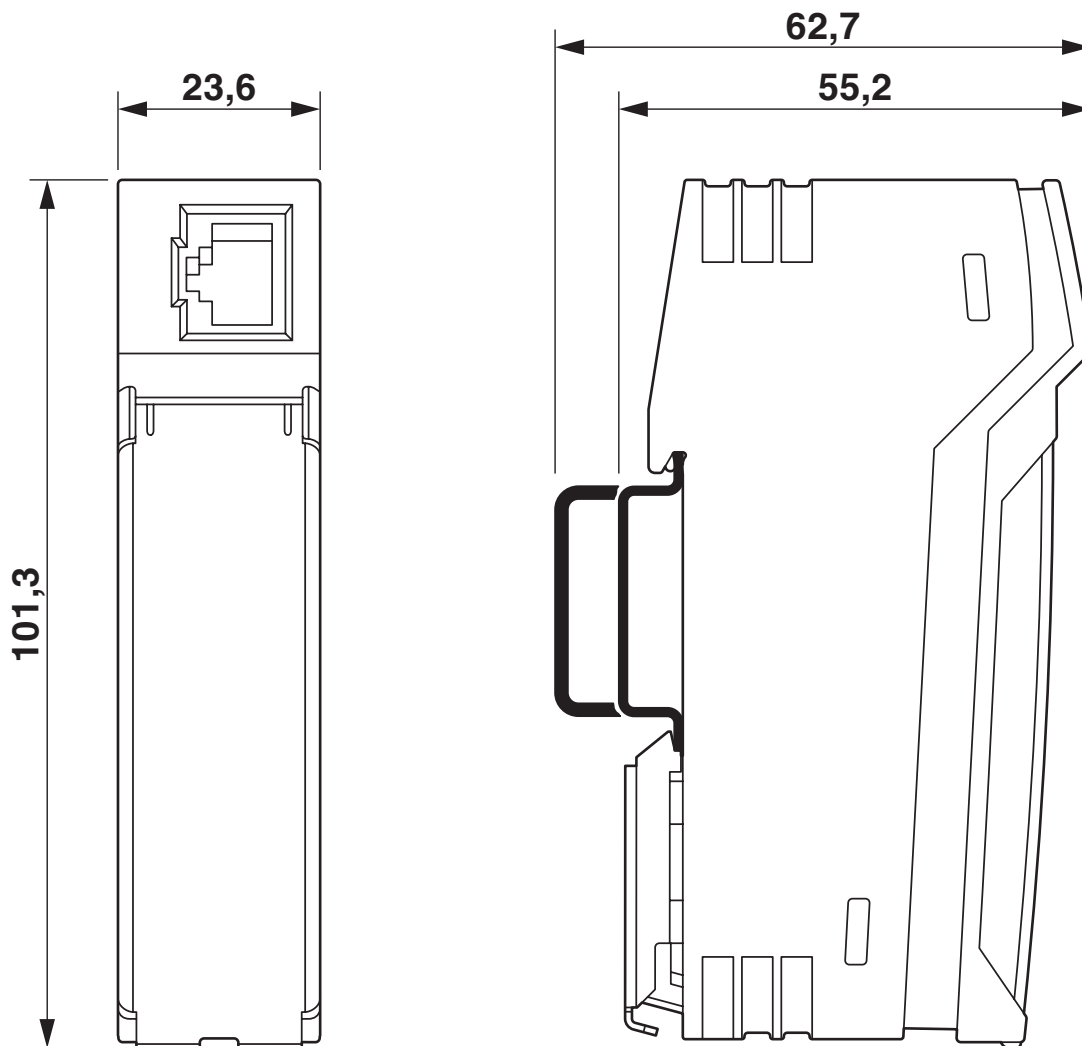
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## Drawings

Dimensional drawing



Compact housing

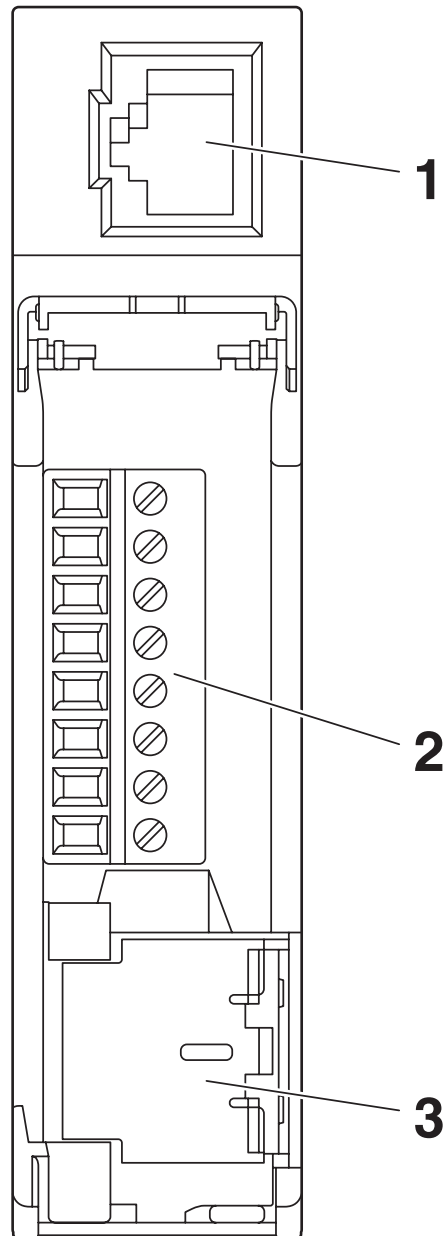
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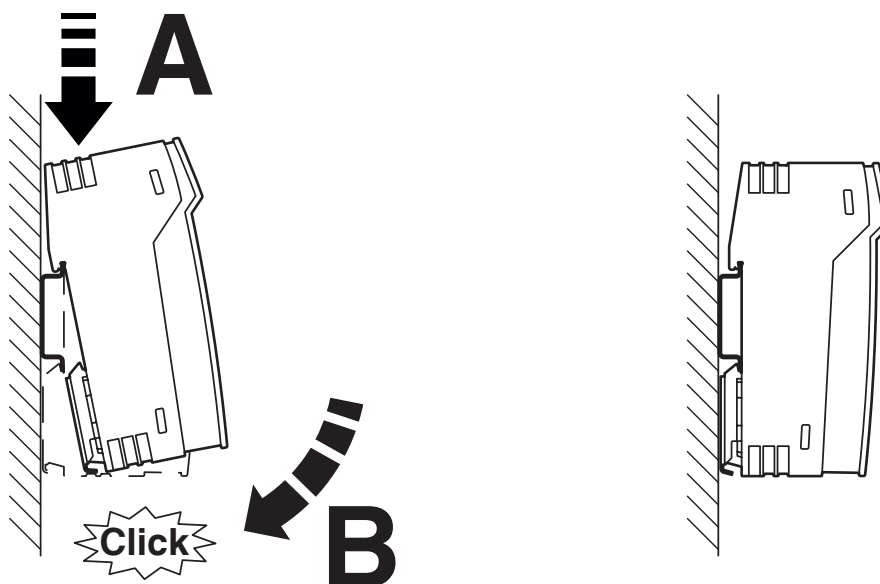


Schematic diagram



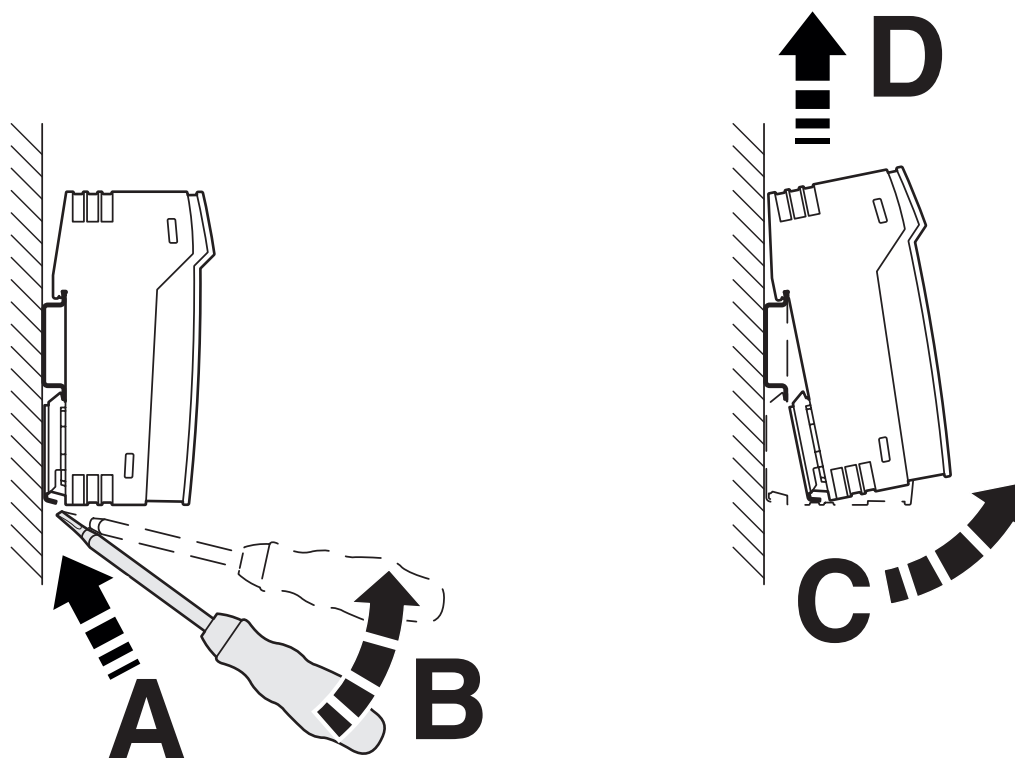
Front view

Schematic diagram



Mounting on a DIN rail

Schematic diagram



Removal

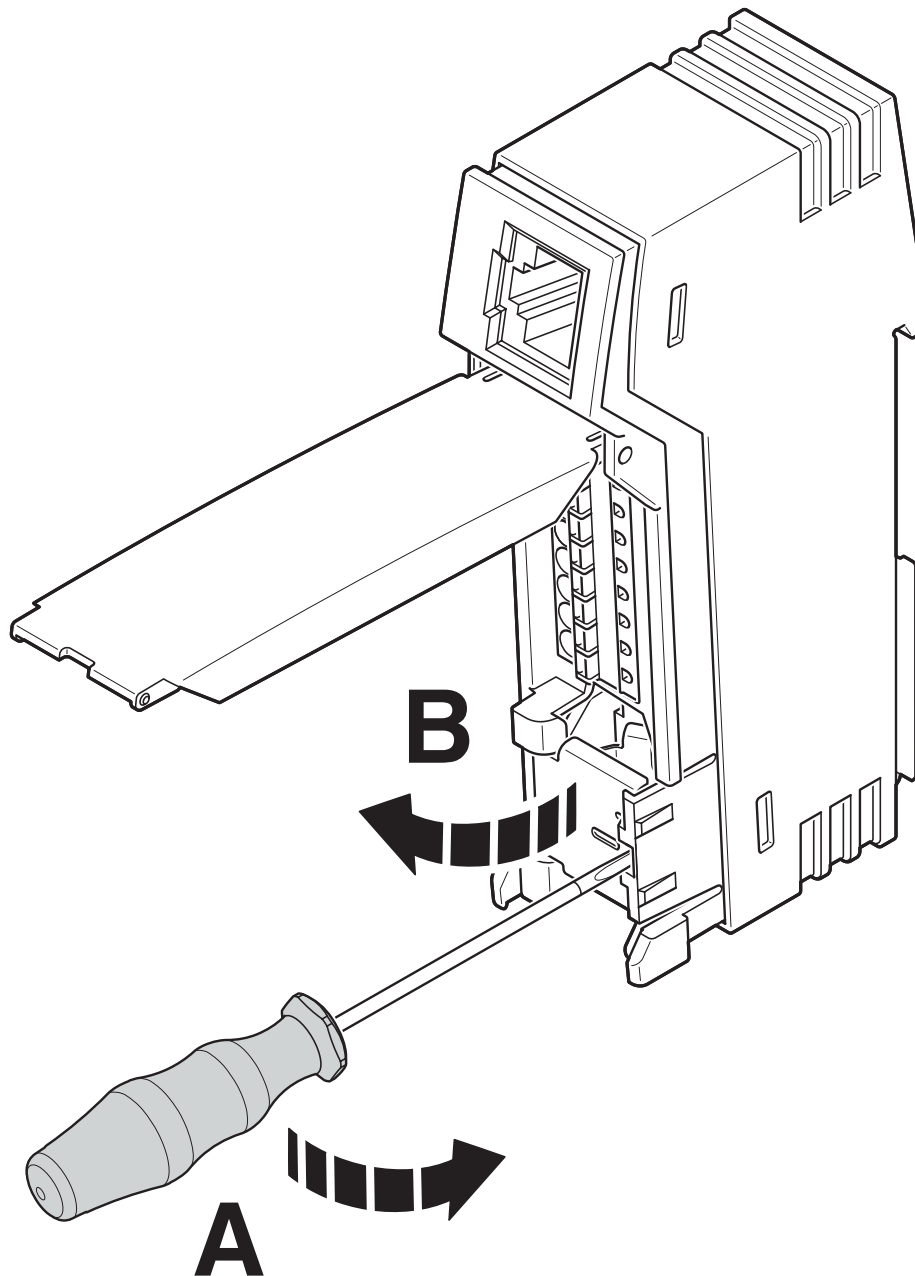
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Schematic diagram



Open shield contact spring



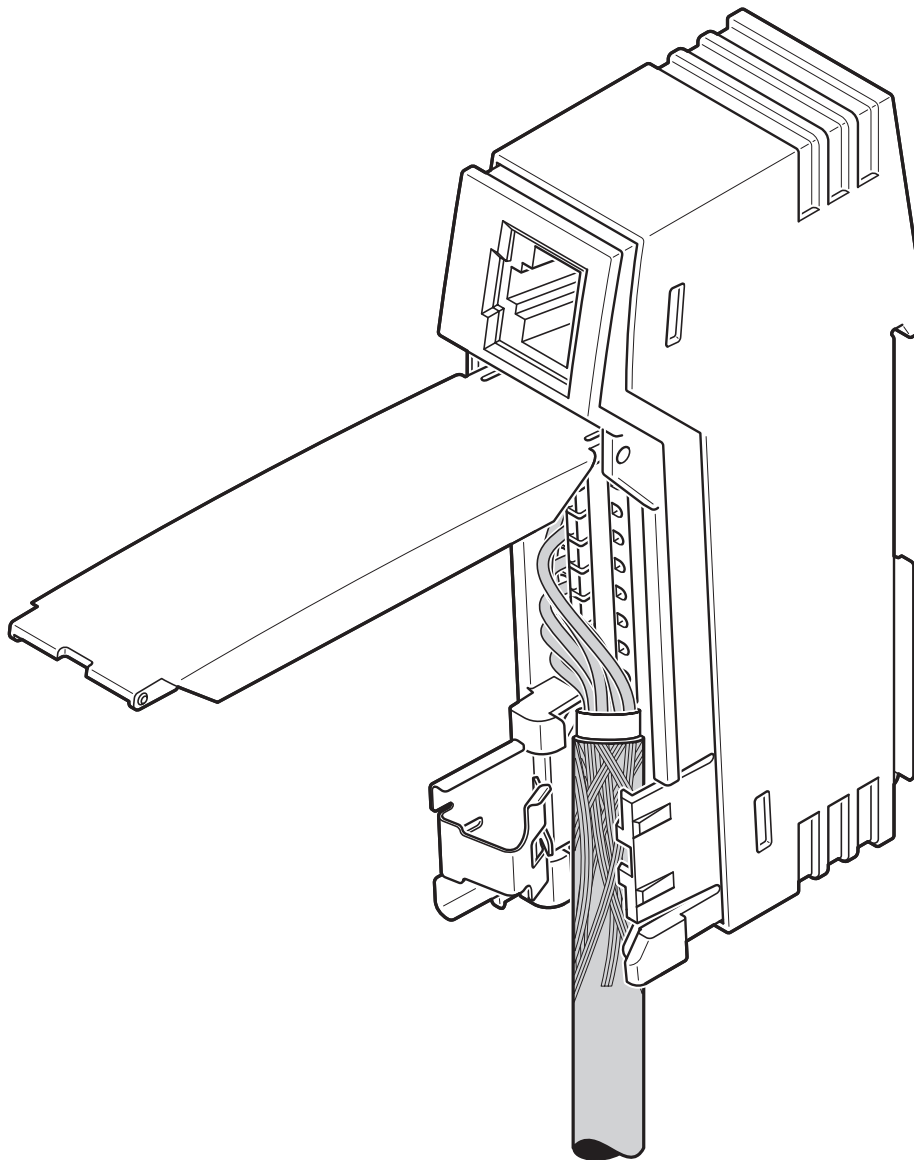
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Schematic diagram



Inserting the cable

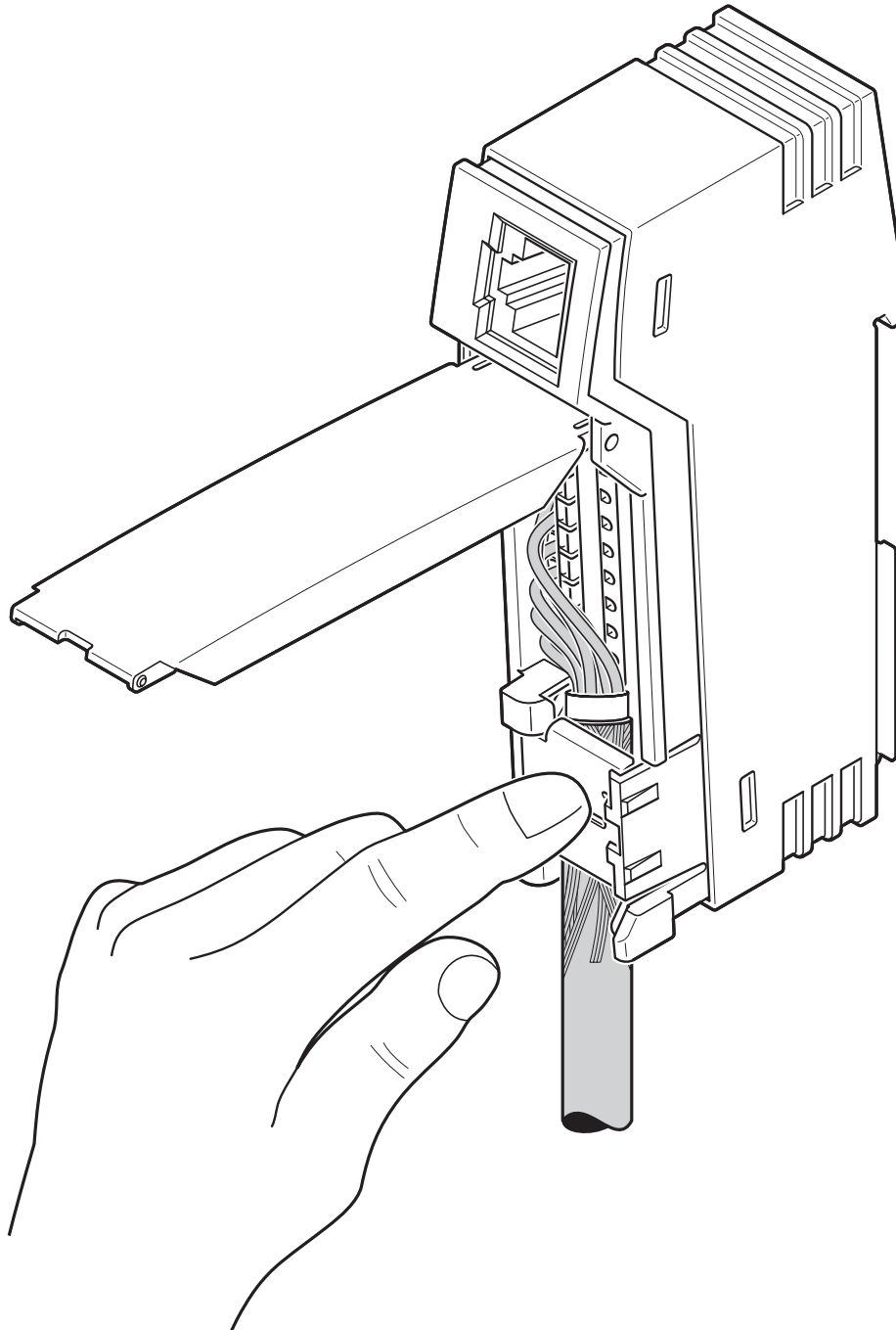
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Schematic diagram



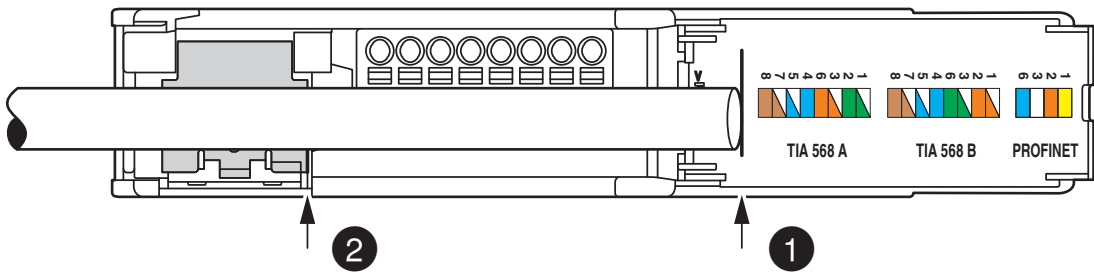
Close shield contact spring

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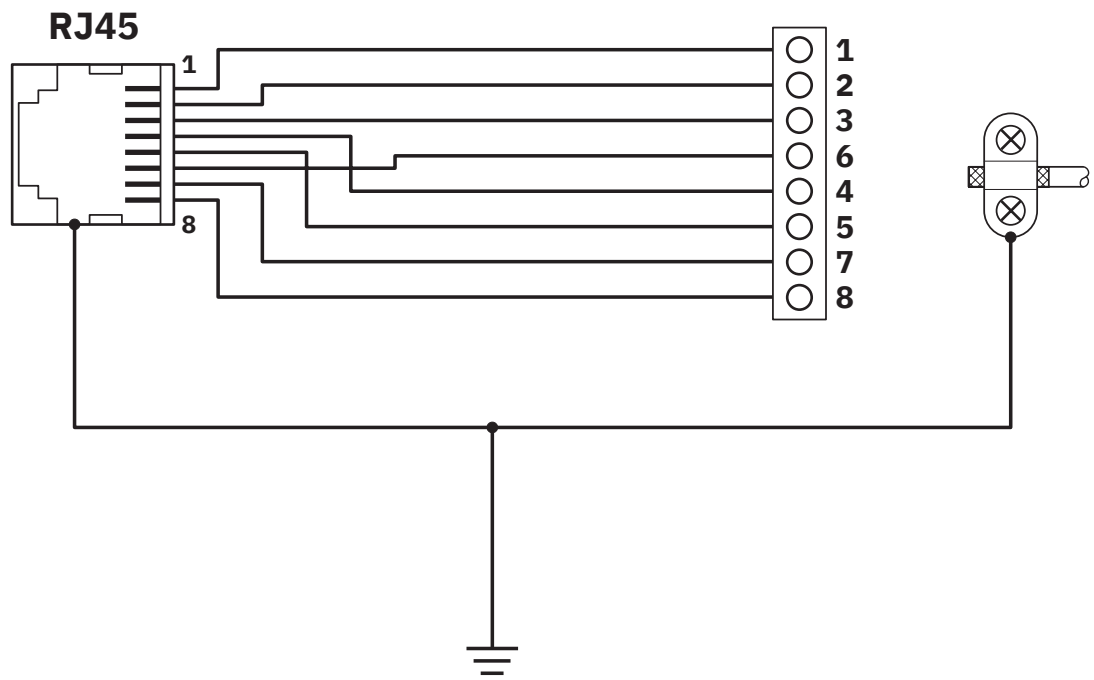
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Schematic diagram



Stripping length

Circuit diagram




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## Approvals

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



**DNV GL**

Approval ID: TAA00001KR



**cULus Listed**

Approval ID: E238705



**cULus Listed**

Approval ID: E366272

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## Classifications

### ECLASS

ECLASS-13.0	19170112
ECLASS-15.0	19170112

### ETIM

ETIM 9.0	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
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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