# PP-RJ-SCC - Patch panels

2703018

https://www.phoenixcontact.com/gb/products/2703018

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Patch panel, RJ45 jack on Push-in terminal blocks, 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.

## 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 | 2703018 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DNC334 |
| Product key | DNC334 |
| Catalog page | Page 361 (C-6-2019) |
| GTIN | 4055626462882 |
| Weight per piece (including packing) | 116.17 g |
| Weight per piece (excluding packing) | 62.27 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

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## Technical data

### Notes

| 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 (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 | Push-in connection |
| Pin assignment | 1:1 |
| Transmission length | 100 m (including patch cables) |
| Conductor cross section flexible max. | 1.5 mm² |
| Conductor cross section flexible min. | 0.2 mm² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 0.25 mm² ... 1.5 mm² (only together with CRIMPFOX 6) |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm² ... 1.5 mm² (only together with CRIMPFOX 6) |
| Conductor cross section, rigid max. | 1.5 mm² |
| Conductor cross section, rigid min. | 0.2 mm² |
| Max. AWG conductor cross section, flexible | 16 |
| Min. AWG conductor cross section, flexible | 26 |
| Single-wire/terminal point, rigid AWG max. | 16 |
| Single-wire/terminal point, rigid AWG min. | 26 |
| Stripping length | 8 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 |
|---|---|

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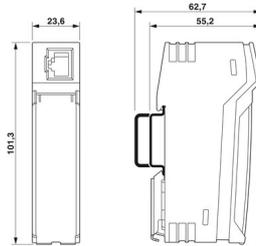
| Dimensional drawing |  |
|---|---|
| Width | 23.8 mm |
| Height | 101.3 mm |
| Depth | 50 mm |

## Material specifications

| Material | Plastic |
|---|---|
| Flammability rating according to UL 94 | V0 |

## Cable/line

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

## 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 | ≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| | ≤ 2000 m (Restrictions for ATEX applications) |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |

## Approvals

### CE

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

### ATEX

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

### UKEX

| Identification | ⟨Ex⟩ II 3 G Ex ec IIC Gc |
|---|---|
| Certificate | PxCIMA22UKEX2703015U |

| UL, USA | |
|---|---|
| Certificate | UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4 |

| UL, Canada | |
|---|---|
| Certificate | CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16 |

| Corrosive gas test | |
|---|---|
| Identification | ISA-S71.04-1985 G3 Harsh Group A |

| Shipbuilding | |
|---|---|
| Identification | DNV GL |

| DNV GL data | |
|---|---|
| Temperature | D |
| Humidity | B |
| Vibration | B |
| EMC | B |

## Mounting

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

## Drawings

Schematic diagram
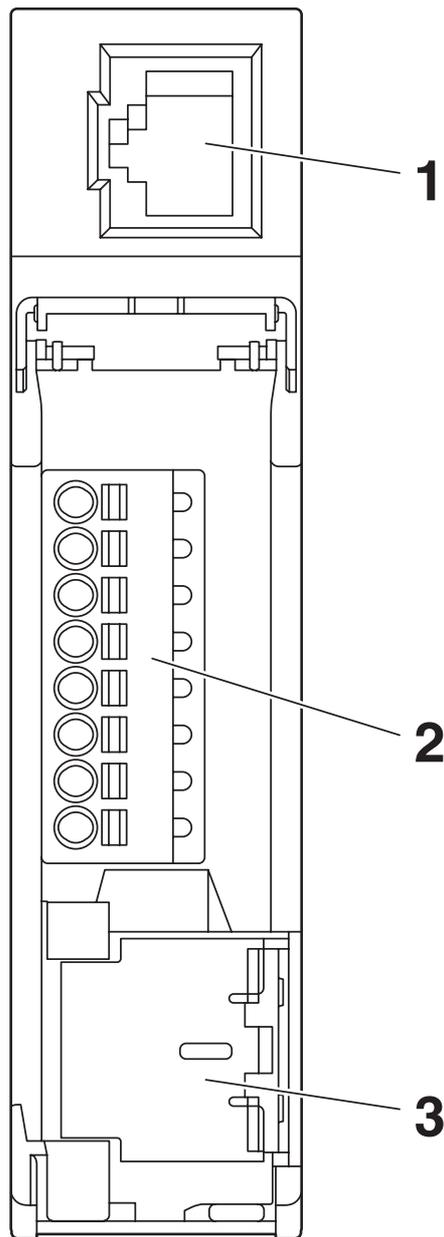


Front view

Schematic diagram
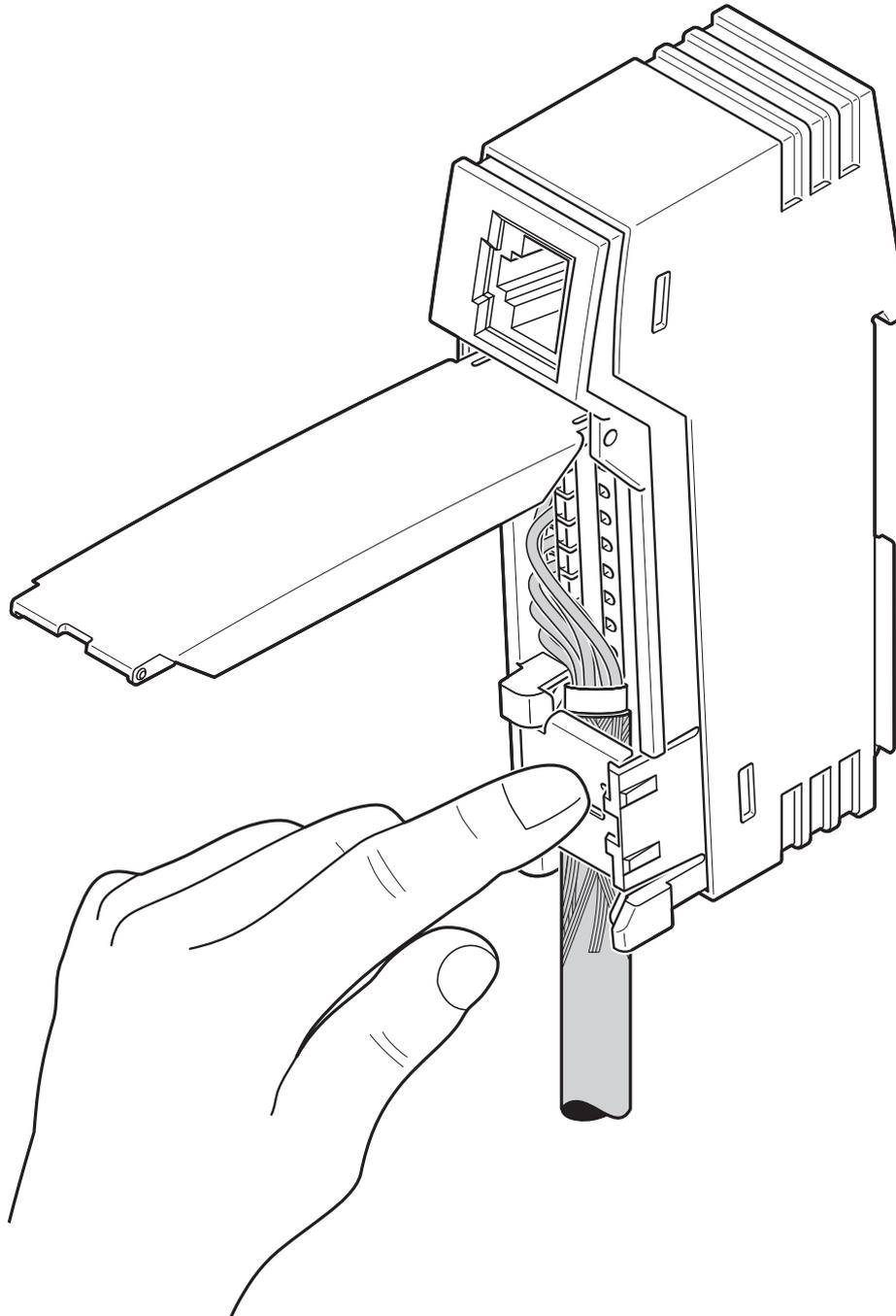
Close shield contact spring
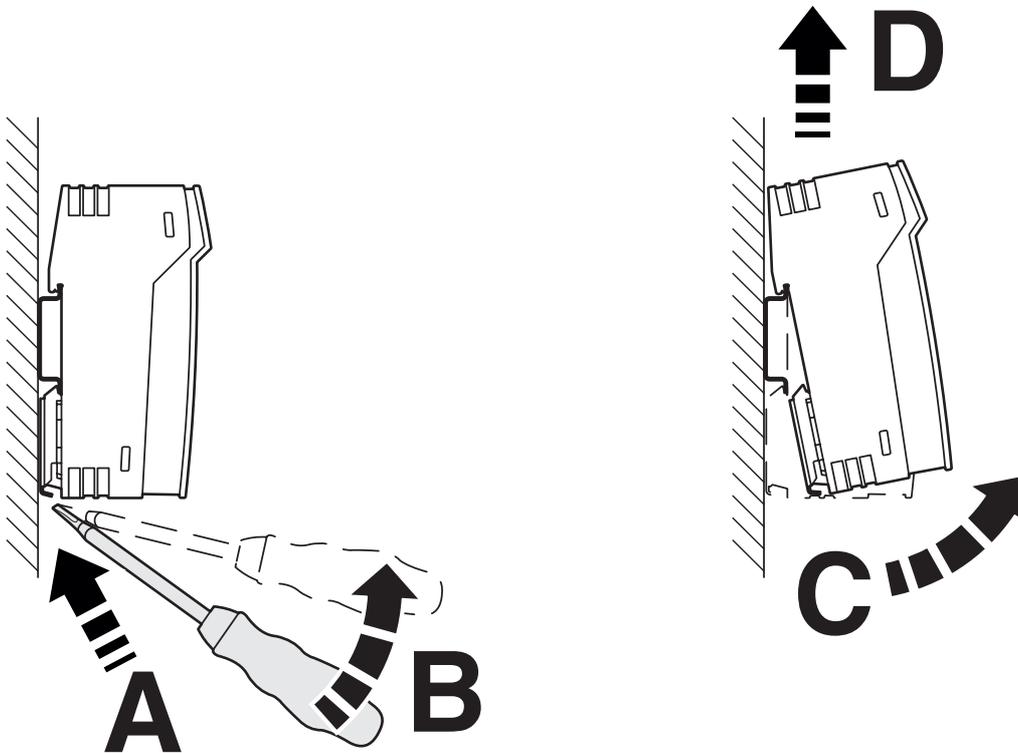
Schematic diagram

Removal

Schematic diagram
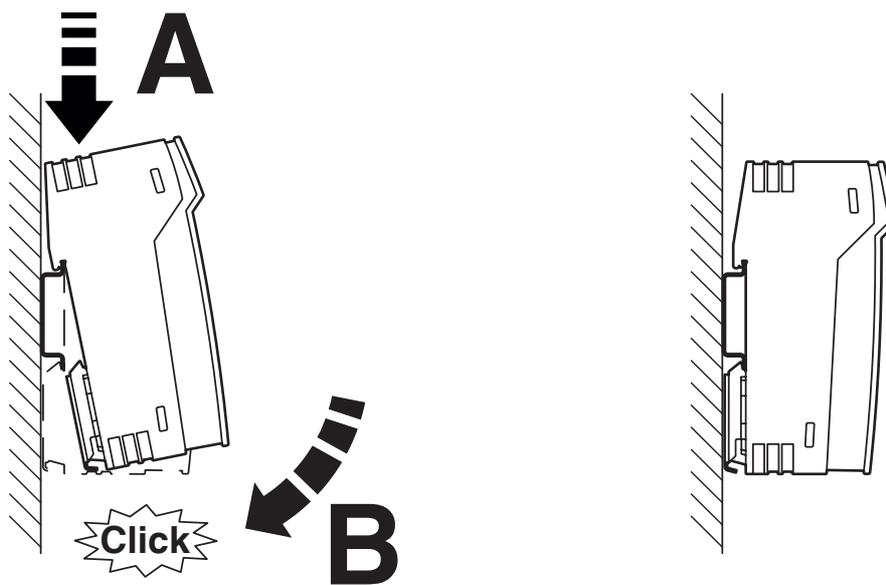
Mounting on a DIN rail

## Dimensional drawing

23,6

101,3

62,7

55,2
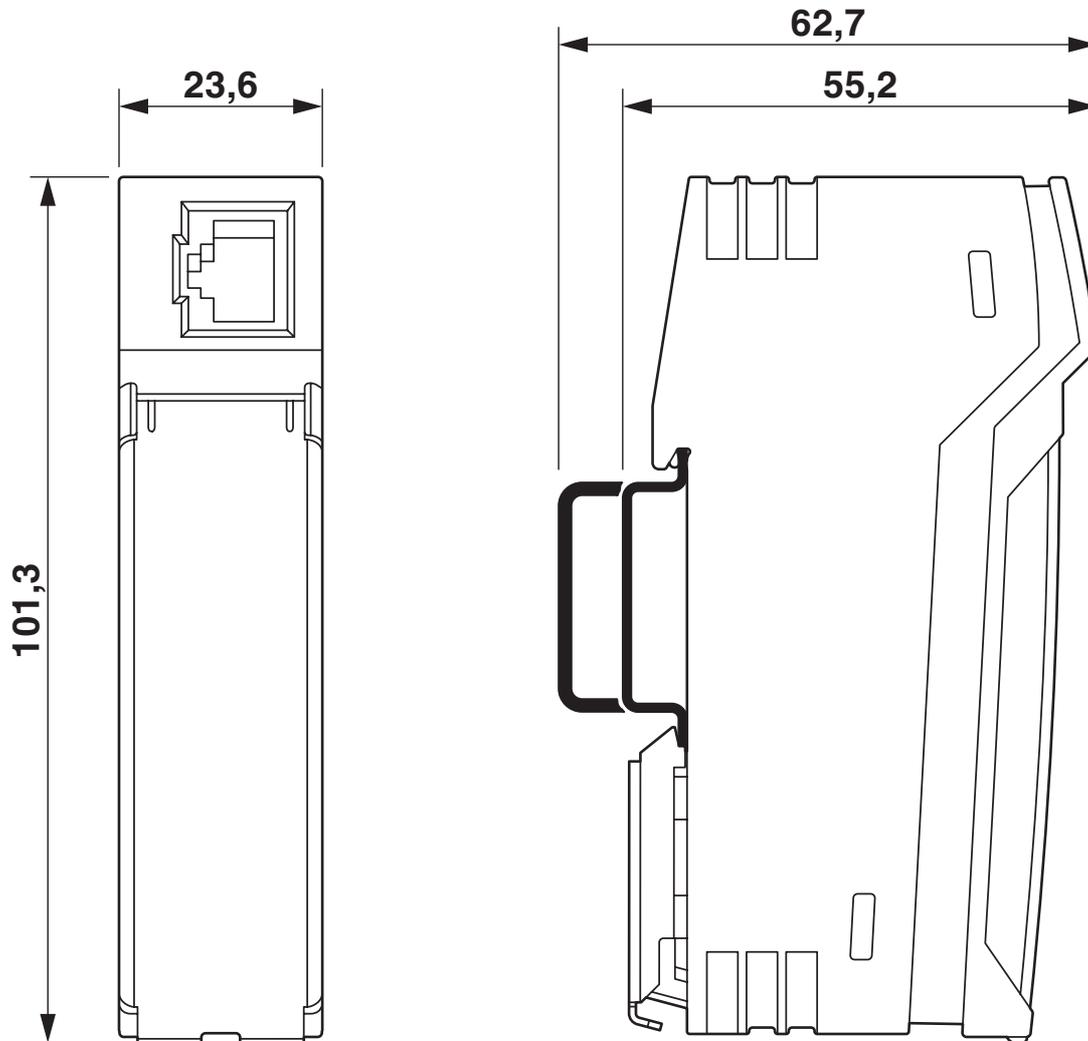
Compact housing

## Schematic diagram

TIA 568 A     TIA 568 B     PROFINET

**2**     **1**
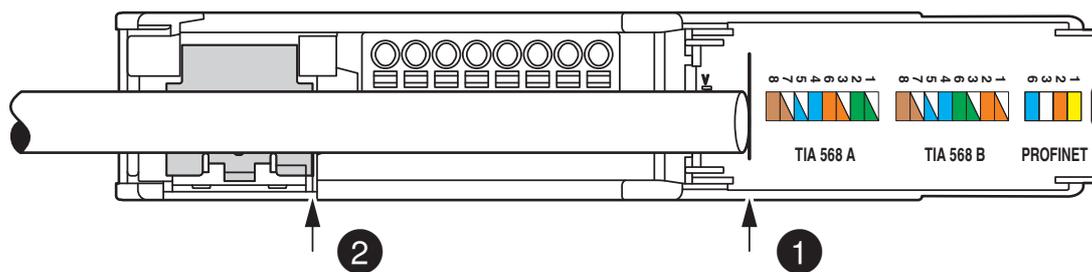
Stripping length
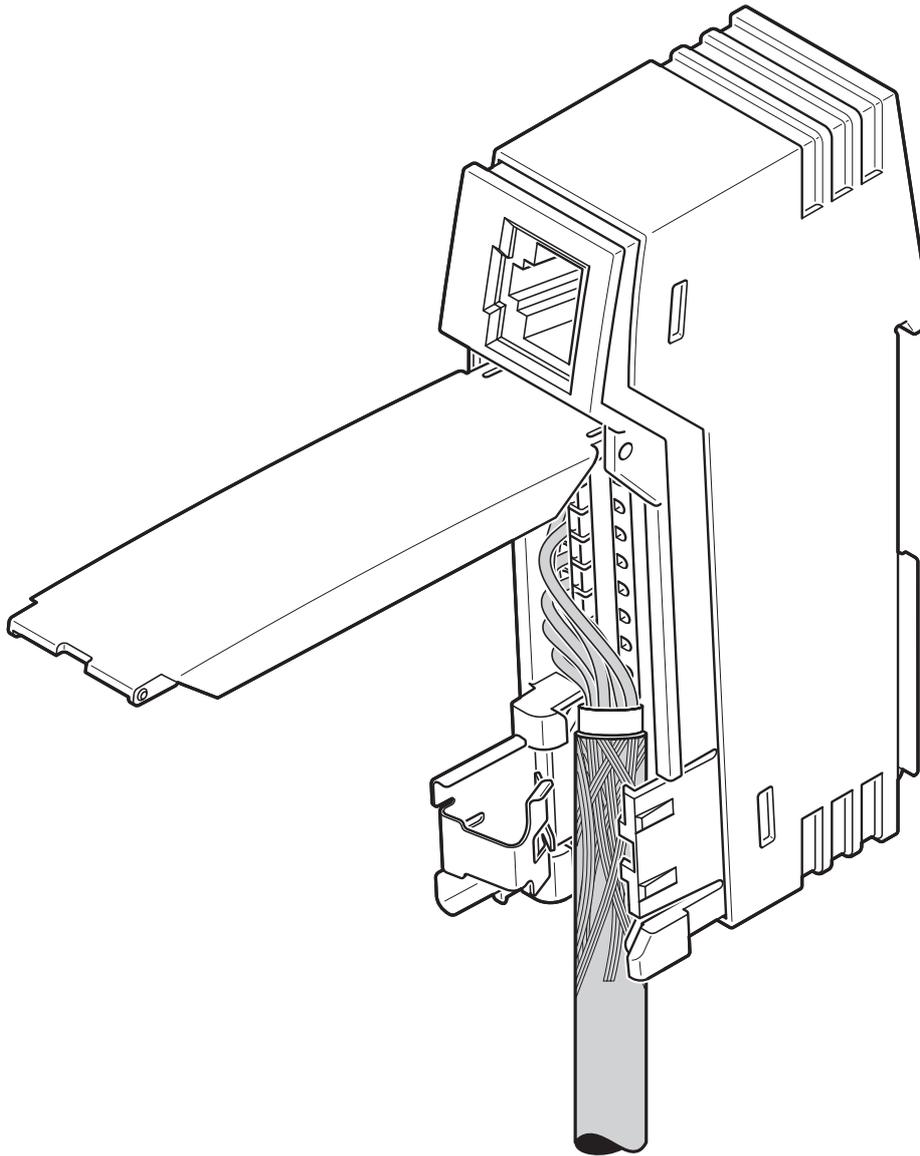
Schematic diagram

Inserting the cable

Schematic diagram
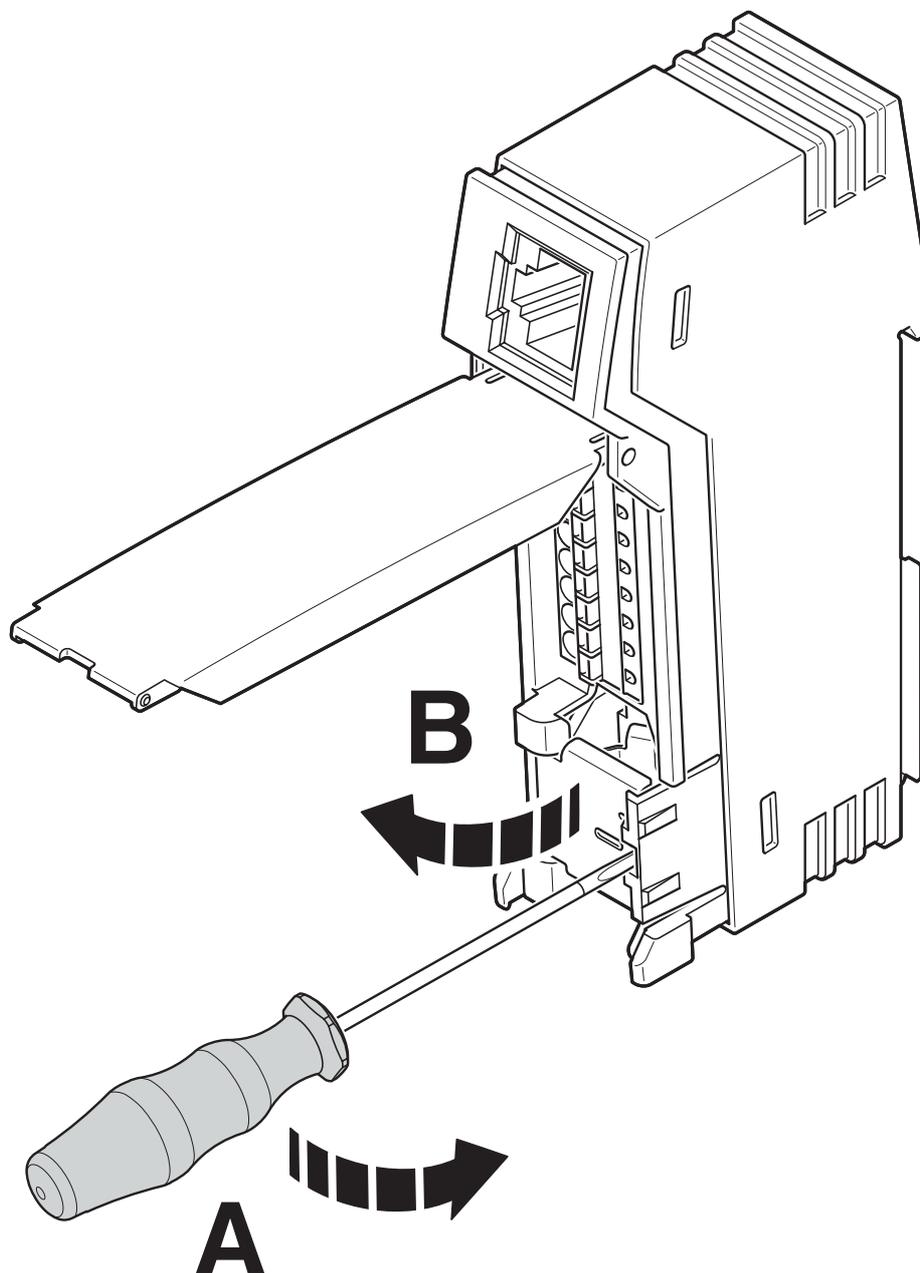


Open shield contact spring

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2703018

**DNV GL**
Approval ID: TAA00001KR

**UL Listed**
Approval ID: FILE E 238705

**cUL Listed**
Approval ID: FILE E 238705

**cUL Listed**
Approval ID: FILE E 366272

**UL Listed**
Approval ID: FILE E 366272

**cULus Listed**

**cULus Listed**

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 19170112 |
| ECLASS-12.0 | 19170112 |
| ECLASS-13.0 | 19170112 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC002697 |

### UNSPSC

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

## Environmental product compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| --- | --- |
| | No hazardous substances above threshold values |

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## Accessories

### PP-RJ-RJ-F - Patch panels

2703020

https://www.phoenixcontact.com/gb/products/2703020

Patch panel, two RJ45 jacks, 10/100/1000 MBps, DIN rail adapter, IP20, shield current monitoring, surge protection

### PP-RJ-SC-F - Patch panels

2703021

https://www.phoenixcontact.com/gb/products/2703021

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

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## PP-RJ-SCC-F - Patch panels

2703022

https://www.phoenixcontact.com/gb/products/2703022

Patch panel, RJ45 jack on Push-in terminal blocks, 10/100/1000 Mbps, DIN rail adapter, IP20, shield contacting with strain relief, shield current monitoring, surge protection

## PP-RJ-IDC-F - Patch panels

2703023

https://www.phoenixcontact.com/gb/products/2703023

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

# PP-RJ-SCC - Patch panels

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## FL CRIMPTOOL - Assembly tool

2744869

https://www.phoenixcontact.com/gb/products/2744869

Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45...,  for assembly on site

## FL CAT5 FLEX CONF/ - Network cable

2744843

https://www.phoenixcontact.com/gb/products/2744843

CAT5-SF/UTP cable (J-LI02YS(ST)C H 2 x 2 x 26 AWG), light-duty, flexible installation cable 2 x 2 x 0.14 mm$^2$, stranded, shielded, outer sheath: 5.75 mm ± 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line assignment

# PP-RJ-SCC - Patch panels

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https://www.phoenixcontact.com/gb/products/2703018

## FL ISOLATOR  100-RJ/RJ - Network isolator

2313931

https://www.phoenixcontact.com/gb/products/2313931

Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Possible to connect two RJ45 plugs.

## FL ISOLATOR 1000-RJ/RJ - Network isolator

2313915

https://www.phoenixcontact.com/gb/products/2313915

Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 1 Gbps. Possible to connect two RJ45 plugs.

# PP-RJ-SCC - Patch panels

## FL ISOLATOR  100-M12 - Network isolator

2902985

https://www.phoenixcontact.com/gb/products/2902985

Passive network isolator for electrical isolation in Ethernet networks. For the protection of Ethernet devices against potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Ethernet connection via two M12 sockets (D-coded).

## NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

https://www.phoenixcontact.com/gb/products/1411854
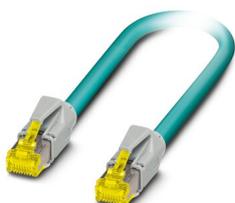
Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, $CAT6_A$, cable outlet: straight, Ethernet

# PP-RJ-SCC - Patch panels

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https://www.phoenixcontact.com/gb/products/2703018

## NBC-R4AC/10G-R4AC/10G-94F/2,0 - Patch cable

1408360
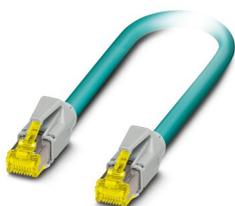
https://www.phoenixcontact.com/gb/products/1408360

Patch cable, CAT6$_A$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

## NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365
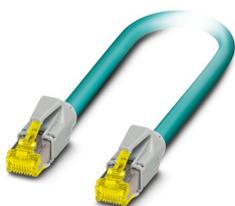
https://www.phoenixcontact.com/gb/products/1408365

Patch cable, CAT6$_A$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

# PP-RJ-SCC - Patch panels

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## NBC-R4AC/1,0-93B/R4AC - Patch cable

1408968

https://www.phoenixcontact.com/gb/products/1408968

Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

## NBC-R4AC/2,0-93B/R4AC - Patch cable

1408969

https://www.phoenixcontact.com/gb/products/1408969

Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

## FL CAT5 PATCH 0,3 - Patch cable

2832250

https://www.phoenixcontact.com/gb/products/2832250

Patch cable, CAT5, assembled, 0.3 m

## FL CAT5 PATCH 0,5 - Patch cable

2832263

https://www.phoenixcontact.com/gb/products/2832263

Patch cable, CAT5, assembled, 0.5 m

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https://www.phoenixcontact.com/gb/products/2703018

## FL CAT5 PATCH 1,0 - Patch cable

2832276

https://www.phoenixcontact.com/gb/products/2832276

Patch cable, CAT5, assembled, 1 m

## FL CAT5 PATCH 1,5 - Patch cable

2832221

https://www.phoenixcontact.com/gb/products/2832221

Patch cable, CAT5, assembled, 1.5 m

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https://www.phoenixcontact.com/gb/products/2703018

## FL CAT5 PATCH 2,0 - Patch cable

2832289

https://www.phoenixcontact.com/gb/products/2832289

Patch cable, CAT5, assembled, 2 m

## FL CAT5 PATCH 3,0 - Patch cable

2832292

https://www.phoenixcontact.com/gb/products/2832292

Patch cable, CAT5, assembled, 3 m

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https://www.phoenixcontact.com/gb/products/2703018

## VS-08-RJ45-10G/Q - RJ45 connector

1419001

https://www.phoenixcontact.com/gb/products/1419001

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6$_A$, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: black, Ethernet

## VS-PN-RJ45-5-Q/IP20 - RJ45 connector

1658435

https://www.phoenixcontact.com/gb/products/1658435

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5, material: Plastic, connection method: Insulation displacement connection, cable outlet: straight, color: traffic grey A RAL 7042, PROFINET

# PP-RJ-SCC - Patch panels

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## VS-CABLE-STRIP-VARIO - Stripping tool

1657407

https://www.phoenixcontact.com/gb/products/1657407

Stripping tool, for the multi-level stripping of shielded cables

## VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

https://www.phoenixcontact.com/gb/products/1656725

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

# PP-RJ-SCC - Patch panels

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https://www.phoenixcontact.com/gb/products/2703018

## VS-08-RJ45-5-Q/IP20 BK - RJ45 connector

1658008

https://www.phoenixcontact.com/gb/products/1658008



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: black, Ethernet

## SZF 0-0,4X2,5 - Screwdriver

1204504

https://www.phoenixcontact.com/gb/products/1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

# PP-RJ-SCC - Patch panels

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https://www.phoenixcontact.com/gb/products/2703018

## MICROFOX-SP - Diagonal cutter

1212488

https://www.phoenixcontact.com/gb/products/1212488

Electronic diagonal cutter, tapered head, angled (21°), without chamfer, with opening spring

## VS-OE-OE-94F/... - Data cable

1417359

https://www.phoenixcontact.com/gb/products/1417359

Data cable, Ethernet CAT6$_A$ (10 Gbps), 8-position halogen-free, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

# PP-RJ-SCC - Patch panels

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## FL-PP-RJ45-SC - Patch panels

2901643

https://www.phoenixcontact.com/gb/products/2901643

Patch panel, one RJ45 jack to 8 screw connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via jumpers

## FL-PP-RJ45-LSA - Patch panels

2901645

https://www.phoenixcontact.com/gb/products/2901645

Patch panel, one RJ45 jack to 8 LSA connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via bridges

# PP-RJ-SCC - Patch panels

2703018

https://www.phoenixcontact.com/gb/products/2703018

## FL-PP-RJ45/RJ45 - Patch panels

2901646

https://www.phoenixcontact.com/gb/products/2901646

Patch panel, two RJ45 jacks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via jumpers