PP-RJ-IDC - Patch panels

2703019

https://www.phoenixcontact.com/gb/products/2703019

PHŒNIX CONTACT

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Patch panel, RJ45 jack on IDC 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. 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
- Shipbuilding approval in accordance with DNV GL
- PoE-capable in accordance with IEEE 802.3bt, type 4

Commercial data

Item number	2703019
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC334
Product key	DNC334
Catalog page	Page 361 (C-6-2019)
GTIN	4055626462899
Weight per piece (including packing)	111.3 g
Weight per piece (excluding packing)	57.63 g
Customs tariff number	85369010
Country of origin	DE

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	250 MHz
Connection method	IDC connection
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Conductor cross section flexible max.	0.34 mm²
Conductor cross section flexible min.	0.14 mm²
Conductor cross section, rigid max.	0.34 mm²
Conductor cross section, rigid min.	0.14 mm²
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)

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

Connection method	RJ45 jack

Dimensions
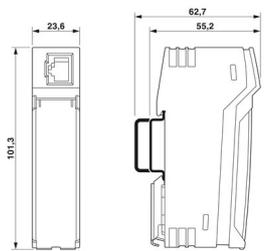
Dimensional drawing	
Width	23.8 mm
Height	101.3 mm
Depth	50 mm

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
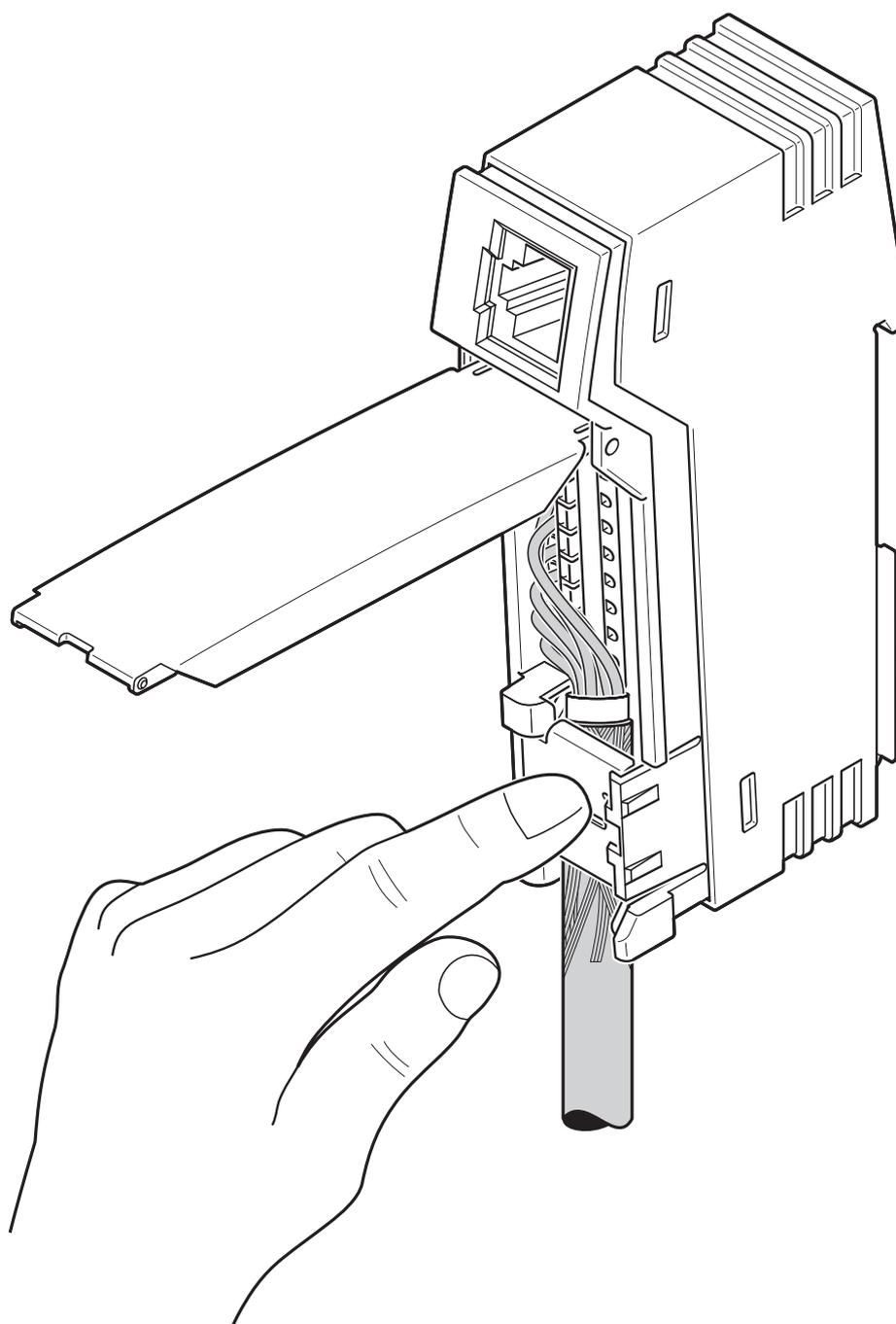
Close shield contact spring
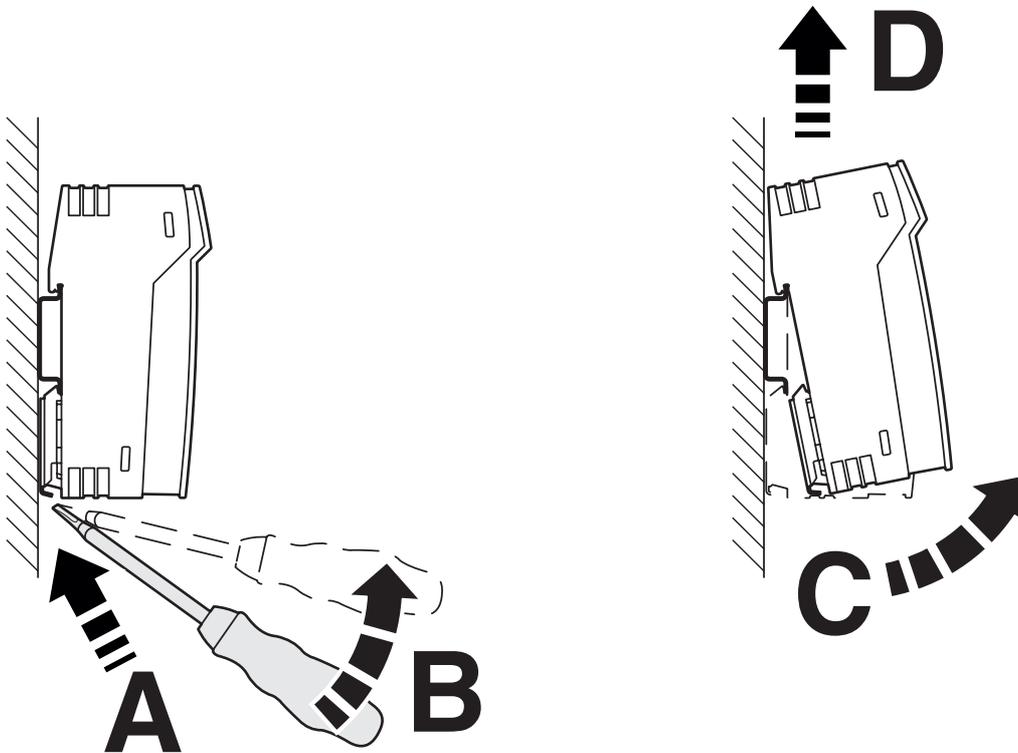
Schematic diagram

Removal

Schematic diagram
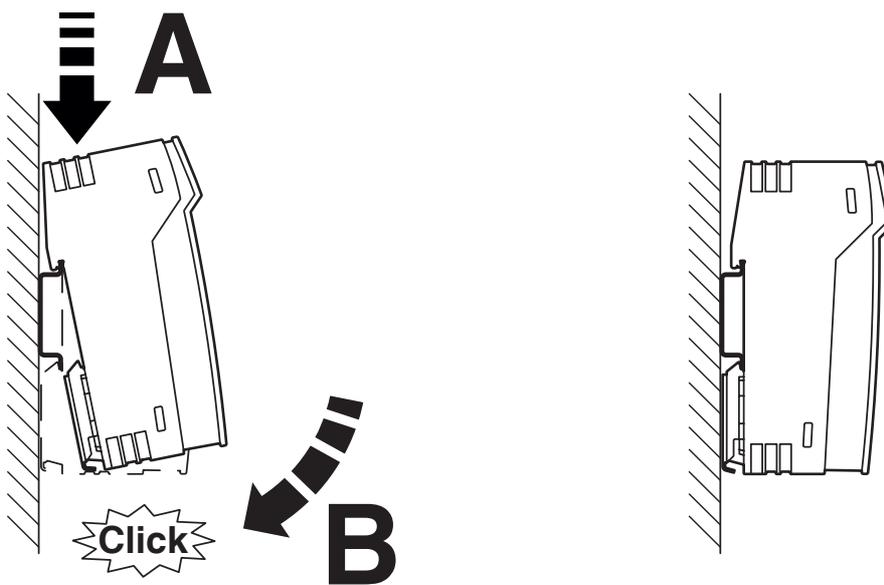
Mounting on a DIN rail

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Dimensional drawing

23,6

62,7

55,2

101,3
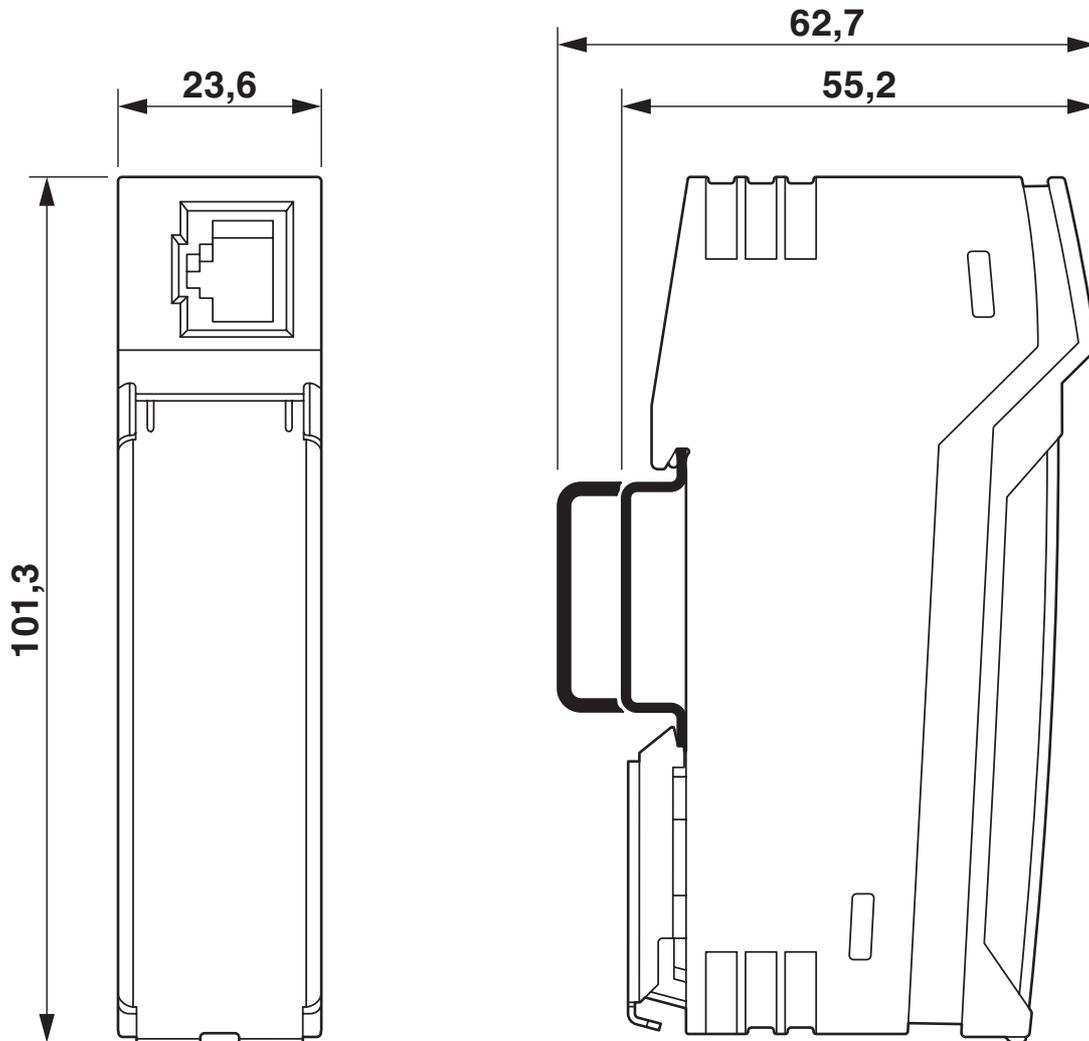
Compact housing

Schematic diagram

TIA 568 A

TIA 568 B

PROFINET
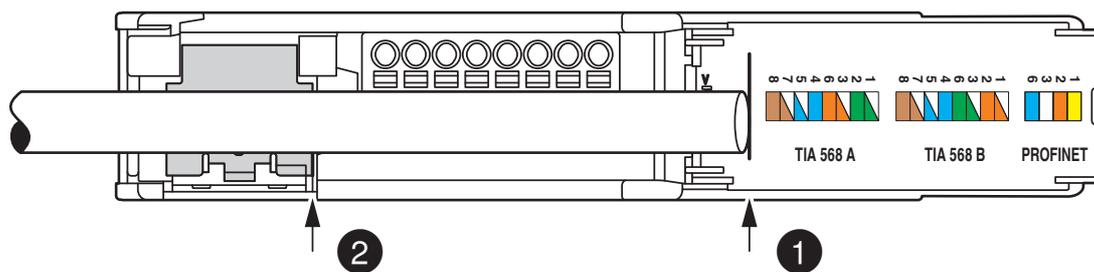
Stripping length
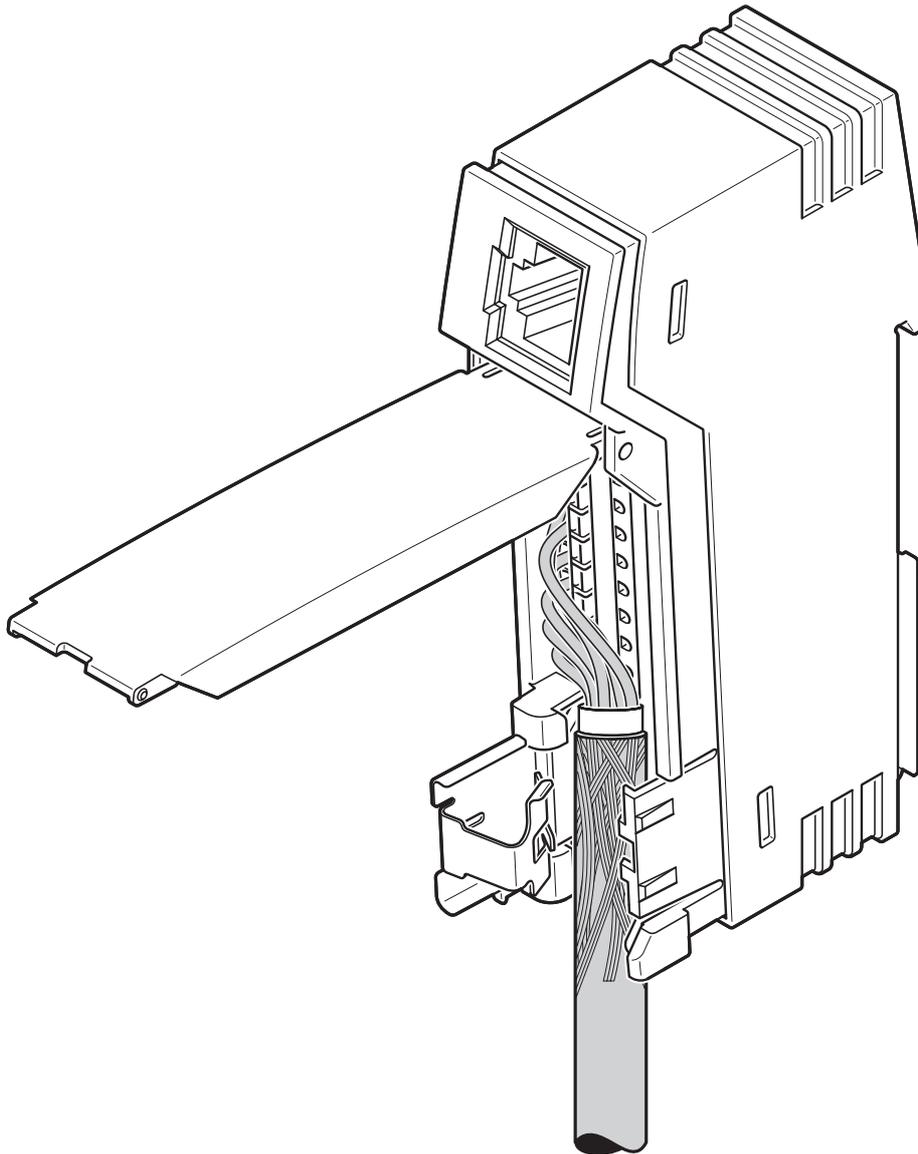
Schematic diagram

Inserting the cable
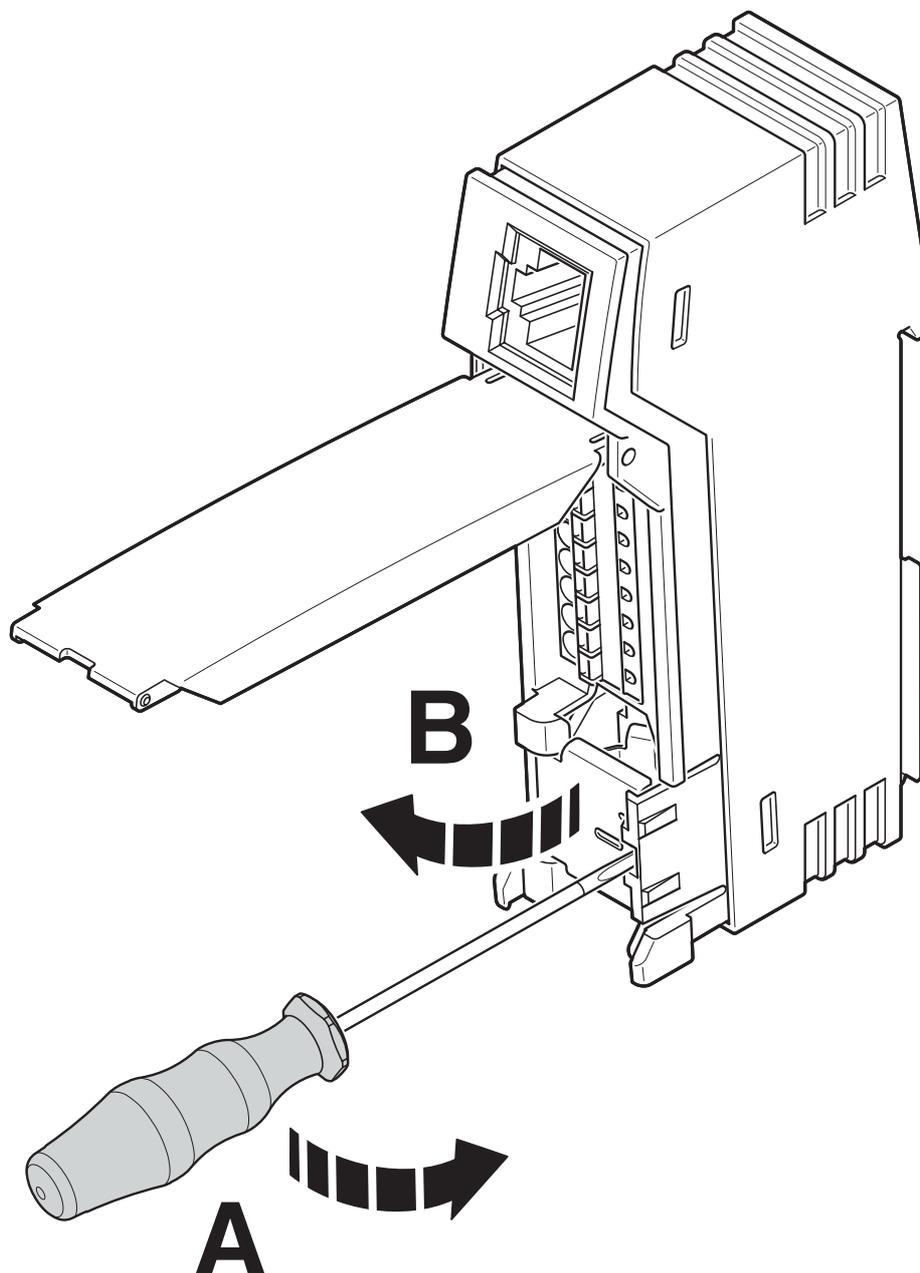
Schematic diagram

Open shield contact spring

Schematic diagram
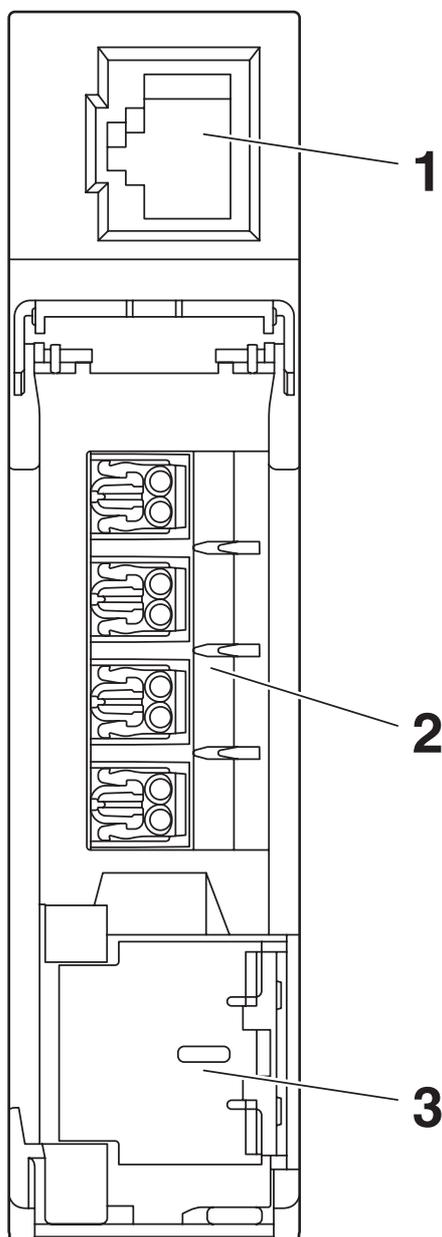
Front view

Approvals

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

DNV GL
Approval ID: TAA00001KR

UL Listed
Approval ID: FILE E 238705

cUL Listed
Approval ID: FILE E 238705

ATEX
Approval ID: PxCIF18ATEX2703015U

cUL Listed
Approval ID: FILE E 366272

UL Listed
Approval ID: FILE E 366272

cULus Listed

cULus Listed

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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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https://www.phoenixcontact.com/gb/products/2703019

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

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 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.

PP-RJ-IDC - Patch panels

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https://www.phoenixcontact.com/gb/products/2703019

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.

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).

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

1411854

https://www.phoenixcontact.com/gb/products/1411854
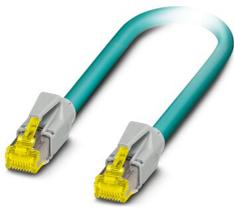
Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6$_A$, cable outlet: straight, Ethernet

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

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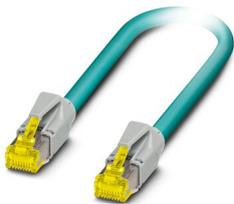
https://www.phoenixcontact.com/gb/products/1408360

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

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

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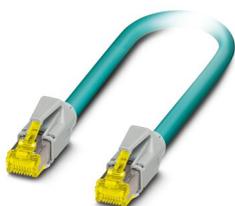
https://www.phoenixcontact.com/gb/products/1408365

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

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

PP-RJ-IDC - Patch panels

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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

FL CAT5 PATCH 1,0 - Patch cable

2832276

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

Patch cable, CAT5, assembled, 1 m

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FL CAT5 PATCH 1,5 - Patch cable

2832221

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

Patch cable, CAT5, assembled, 1.5 m

FL CAT5 PATCH 2,0 - Patch cable

2832289

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

Patch cable, CAT5, assembled, 2 m

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FL CAT5 PATCH 3,0 - Patch cable

2832292

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

Patch cable, CAT5, assembled, 3 m

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

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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

VS-CABLE-STRIP-VARIO - Stripping tool

1657407

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

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

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https://www.phoenixcontact.com/gb/products/2703019

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

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

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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

MICROFOX-SP - Diagonal cutter

1212488

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

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

PP-RJ-IDC - Patch panels

2703019

https://www.phoenixcontact.com/gb/products/2703019

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)

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

PP-RJ-IDC - Patch panels

2703019

https://www.phoenixcontact.com/gb/products/2703019

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

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