FL-PP-RJ45-SCC - Patch panel

2901642

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Patch panel, one RJ45 jack to 8 spring-force 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

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

- Safe shield connection to ground potential
- Mounting on a DIN rail
- CAT5e
- 10/100/1000 Mbps
- Optional shield connection via jumpers
- Shipbuilding approval in accordance with DNV GL
- PoE-capable in accordance with IEEE 802.3bt, type 4

Commercial data

Item number	2901642
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	DN07
Product key	DNC331
GTIN	4046356623384

Weight per piece (including packing)	54.5 g
Weight per piece (excluding packing)	56.073 g
Customs tariff number	85366990
Country of origin	US

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
MTBF	6702 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	2962 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))

Connection data

Connection method	Spring-cage connection

Interfaces

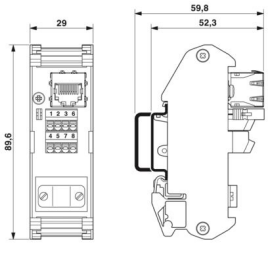
Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

Serial transmission speed	10/100/1000 Mbps
Connection method	Spring connection
No. of channels	1
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Single conductor/terminal point, rigid	0.2 mm² ... 1.5 mm²
Single-wire/terminal point, flexible	0.2 mm² ... 1 mm²
Max. AWG conductor cross-section, flexible	16
Min. AWG conductor cross-section, flexible	24

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

Connection method	RJ45 CAT5e
No. of channels	1

Dimensions

Dimensional drawing	

Width	29 mm
Height	90 mm
Depth	53 mm

Material specifications

Color (Housing)	green (RAL 6021)
Material (Housing)	PVC / PA

Cable/line

External cable diameter	6 mm ... 10 mm
Cable impedance	100 Ω

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≤ 2500

Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	Operation: 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Operation: 25g, 11 ms period, half-sine shock pulse

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Ambient temperature (assembly)	-10 °C ... 70 °C
Permissible humidity (operation)	25 % ... 95 % (non-condensing)

Approvals

CE

Identification	CE-compliant

ATEX

Identification	Ⓔx II 3 G Ex ec IIC Gc
Certificate	PxCIF14ATEX2901642U
Note	Please follow the special installation instructions in the documentation!

Corrosive gas test

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

Shipbuilding

Identification	DNV GL

Shipbuilding data

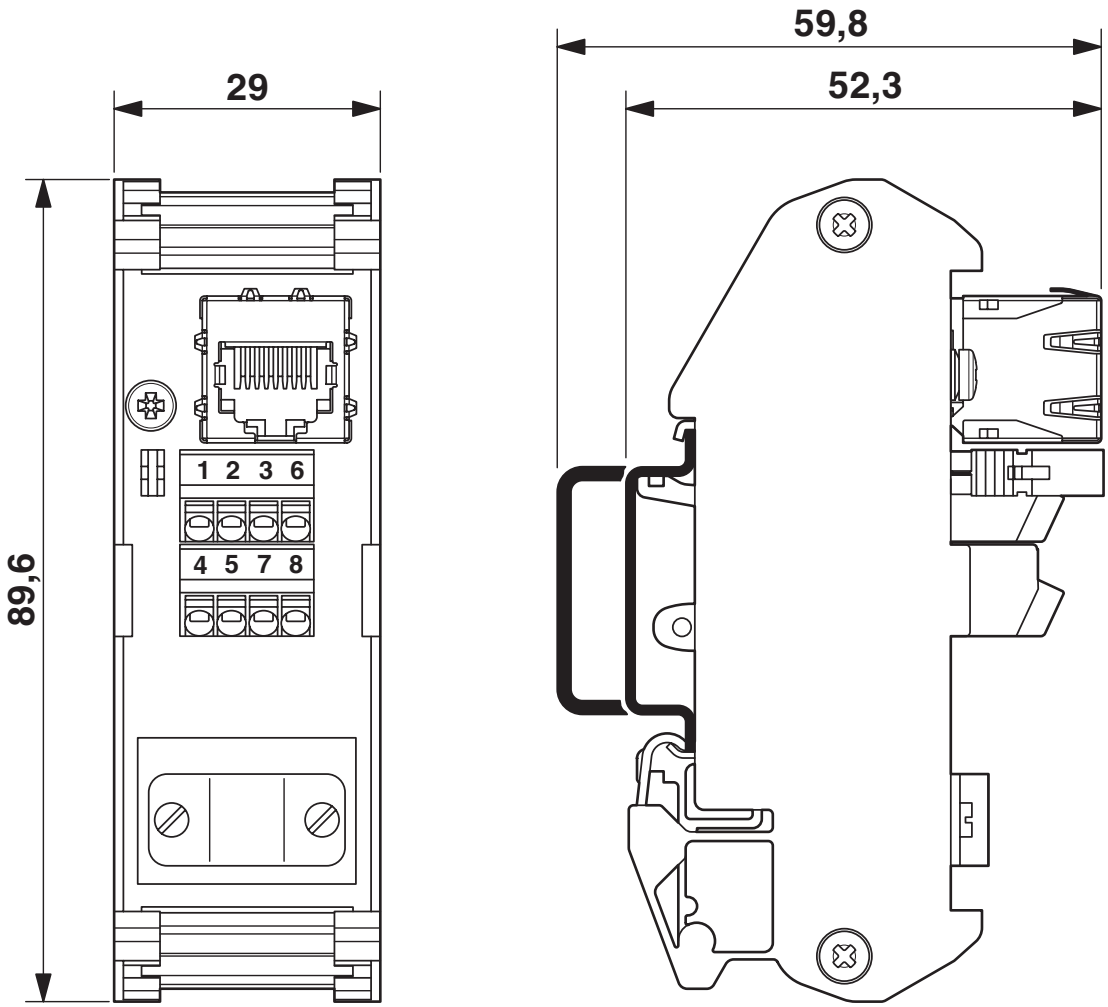
Temperature	B
Humidity	A
Vibration	A
EMC	B
Enclosure	Required protection according to the Rules shall be provided upon installation on board

Mounting

Mounting type	DIN rail mounting

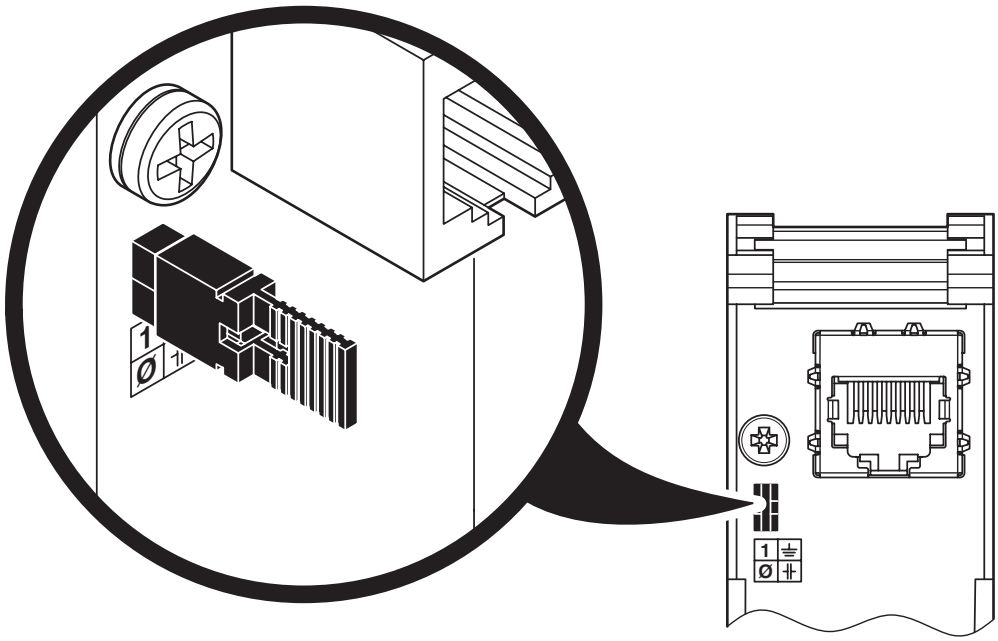
Drawings

Dimensional drawing



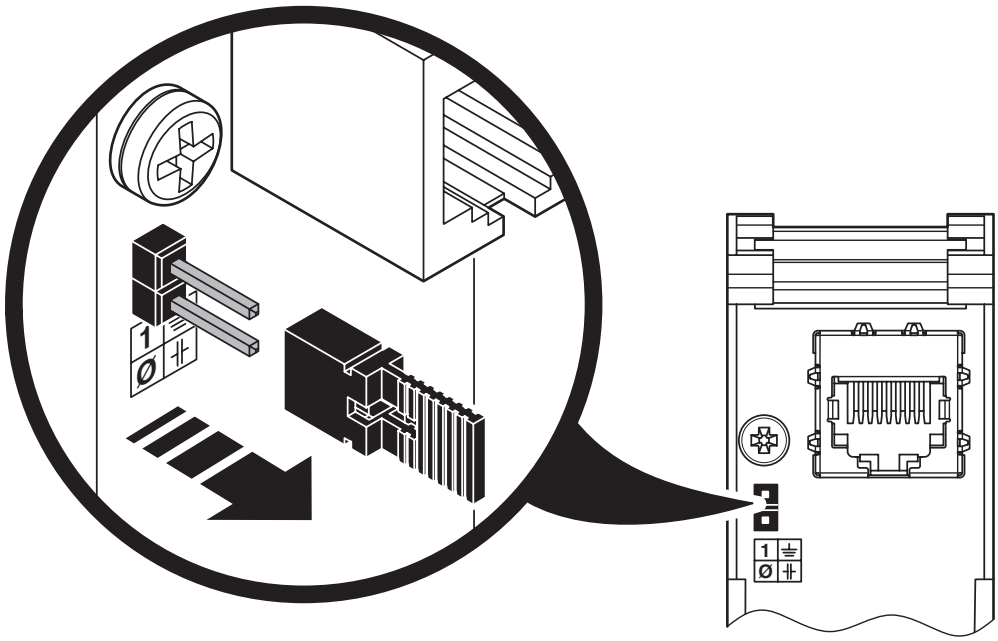
Dimensional drawing

Schematic diagram



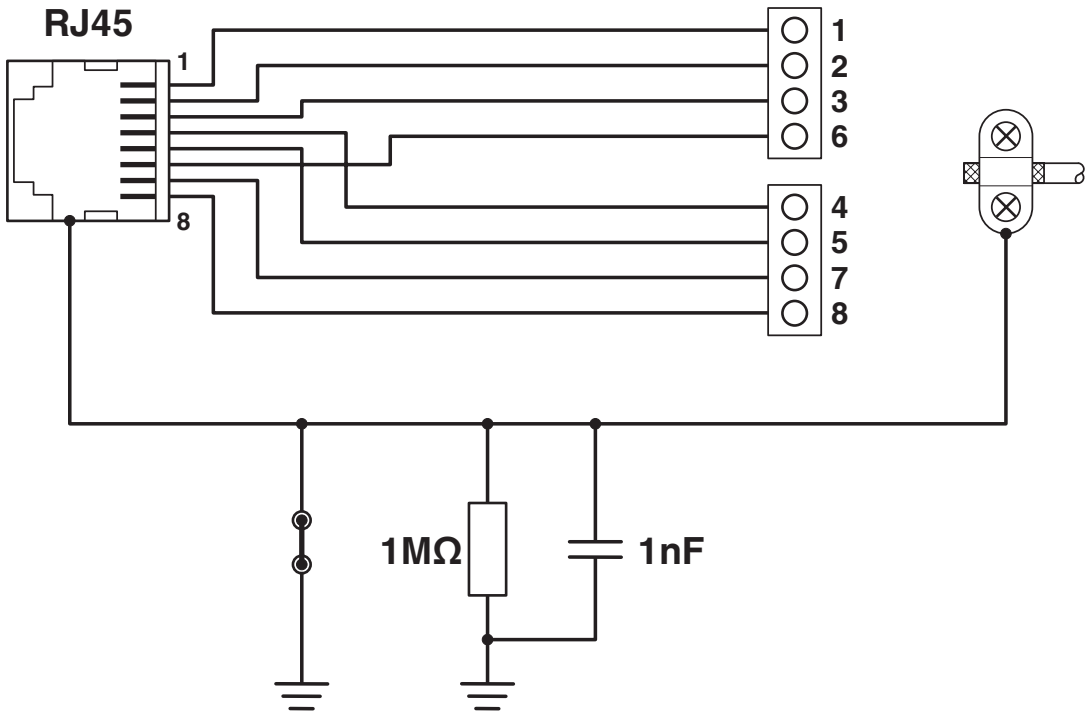
Shield connection direct to PE

Schematic diagram



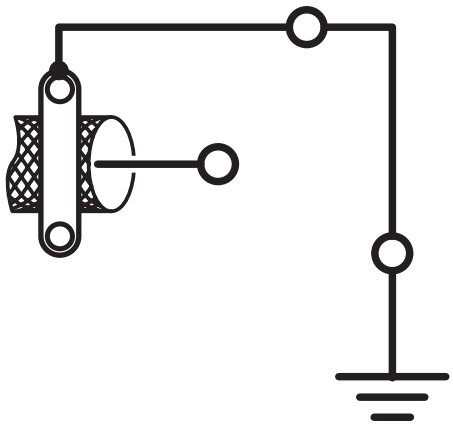
Shield connection to PE via RC element

Circuit diagram



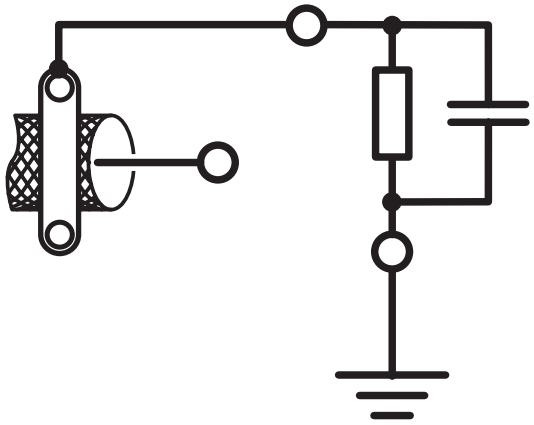
Circuit diagram

Circuit diagram

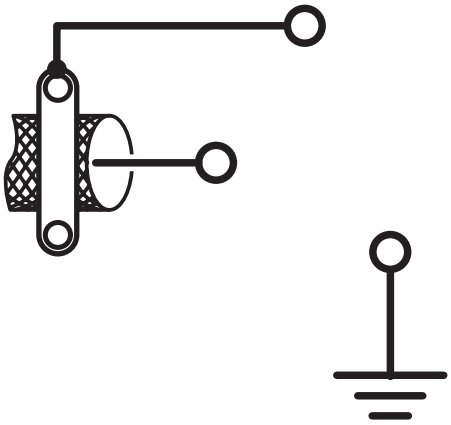


Shield connection direct to PE

Circuit diagram



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2901642

DNV GL
Approval ID: TAA00001KR_7

Classifications

ECLASS

ECLASS-13.0	19170112
ECLASS-15.0	19170112

ETIM

ETIM 10.0	EC001128

UNSPSC

UNSPSC 21.0	43223309

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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