

# FL-PP-RJ45-SCC - Patch panel

2901642

<https://www.phoenixcontact.com/us/products/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)	53.8 g
Weight per piece (excluding packing)	56.073 g
Customs tariff number	85366990
Country of origin	US

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## Technical data

### Notes

#### Note on application

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

CCCx note	Use in potentially explosive areas is not permitted in China.
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### 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
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### 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-cage connection
No. of channels	1
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Single conductor/terminal point, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Single-wire/terminal point, flexible	0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Single-wire/terminal point, rigid AWG max.	16
Single-wire/terminal point, rigid AWG min.	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	
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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	Vibration (operation): 5g, 10...150 Hz, 2.5 h, in XYZ direction
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Shock (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	Ex II 3 G Ex ec IIC Gc
Certificate	PxCIF14ATEX2901642U
Note	Please follow the special installation instructions in the documentation!

UKEX	
Identification	Ex II 3 G Ex ec IIC Gc
Certificate	PxCIMA21UKEX2901642U

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	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
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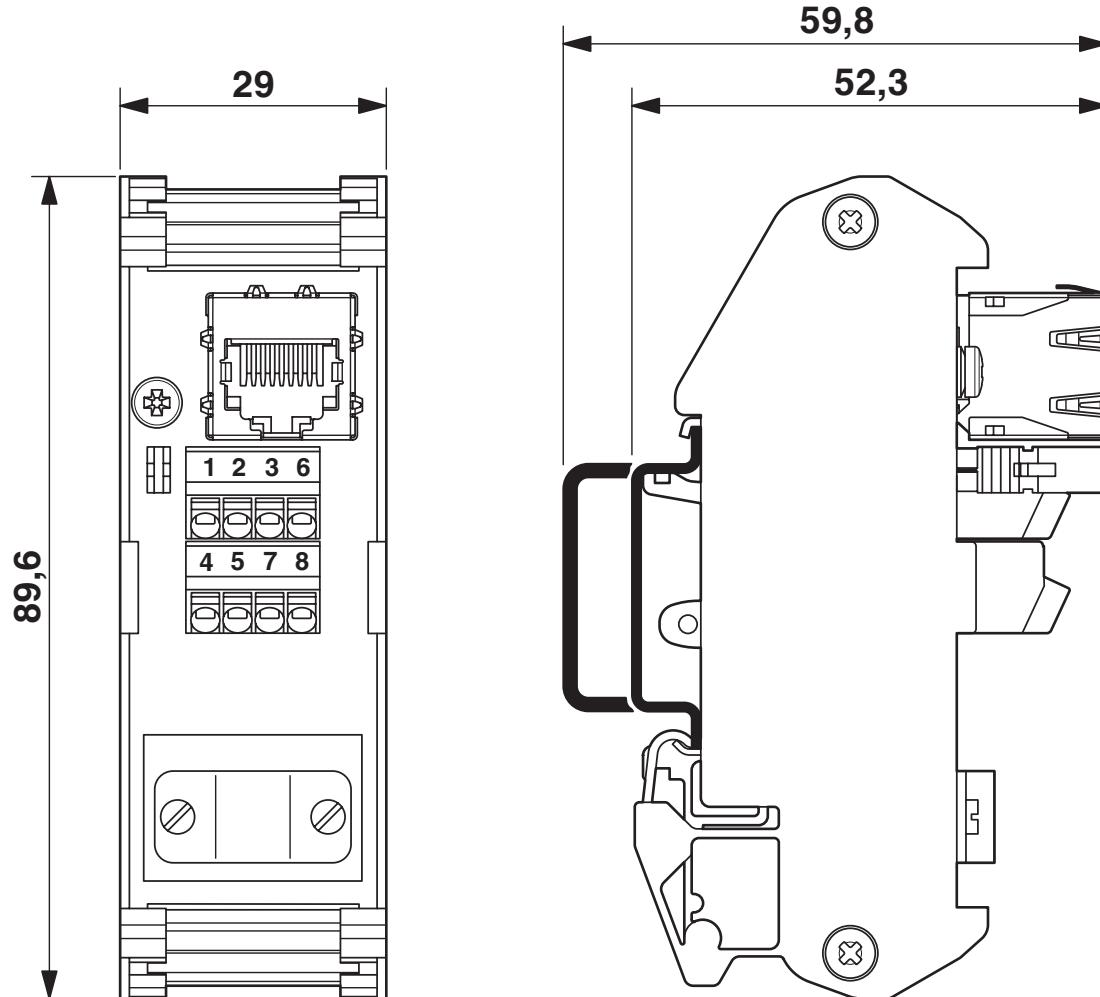
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## Drawings

Dimensional drawing



Dimensional drawing

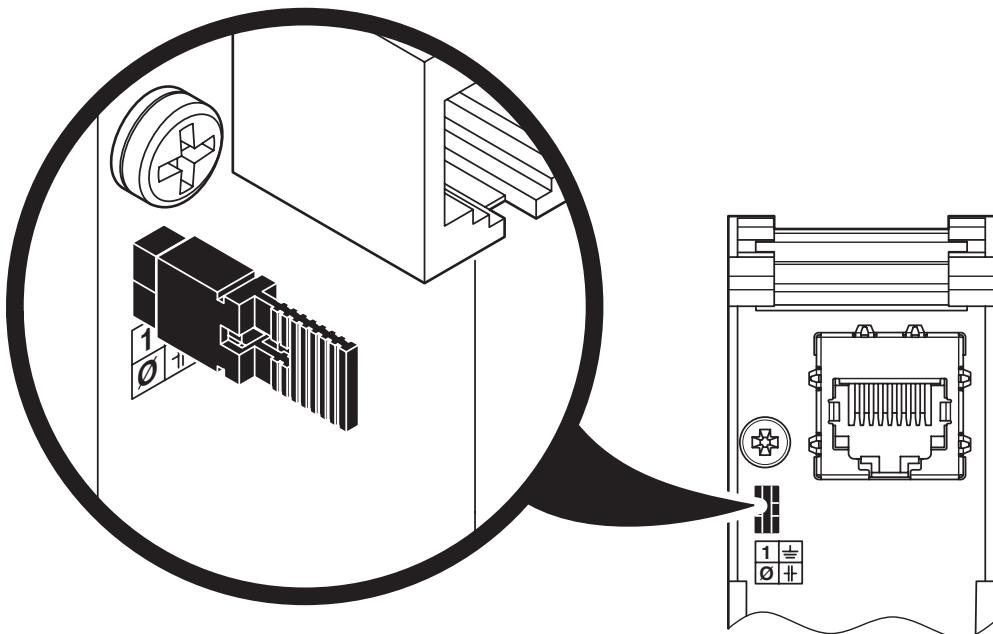
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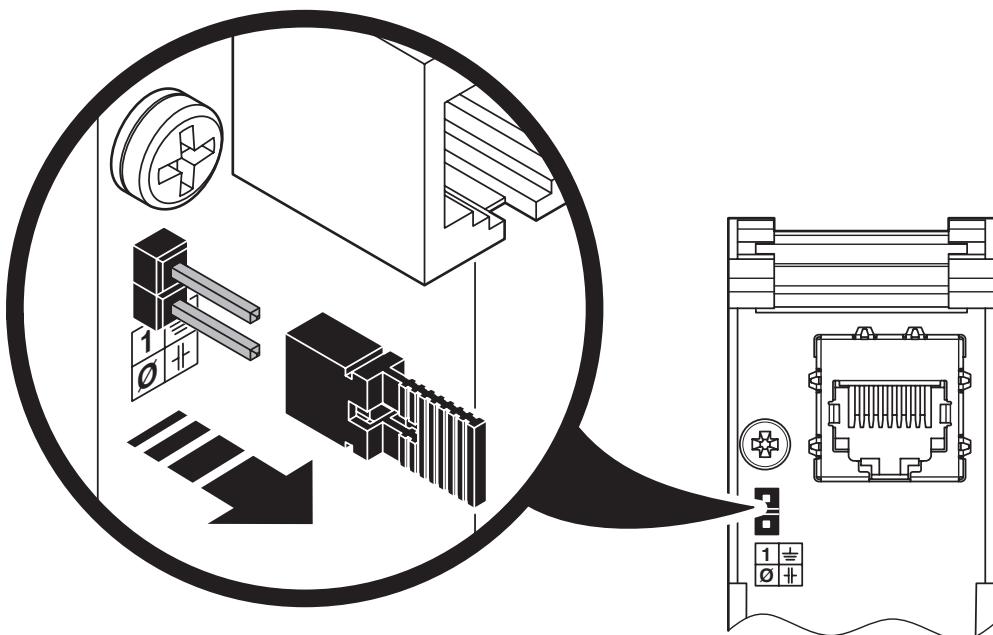


Schematic diagram



Shield connection direct to PE

Schematic diagram



Shield connection to PE via RC element

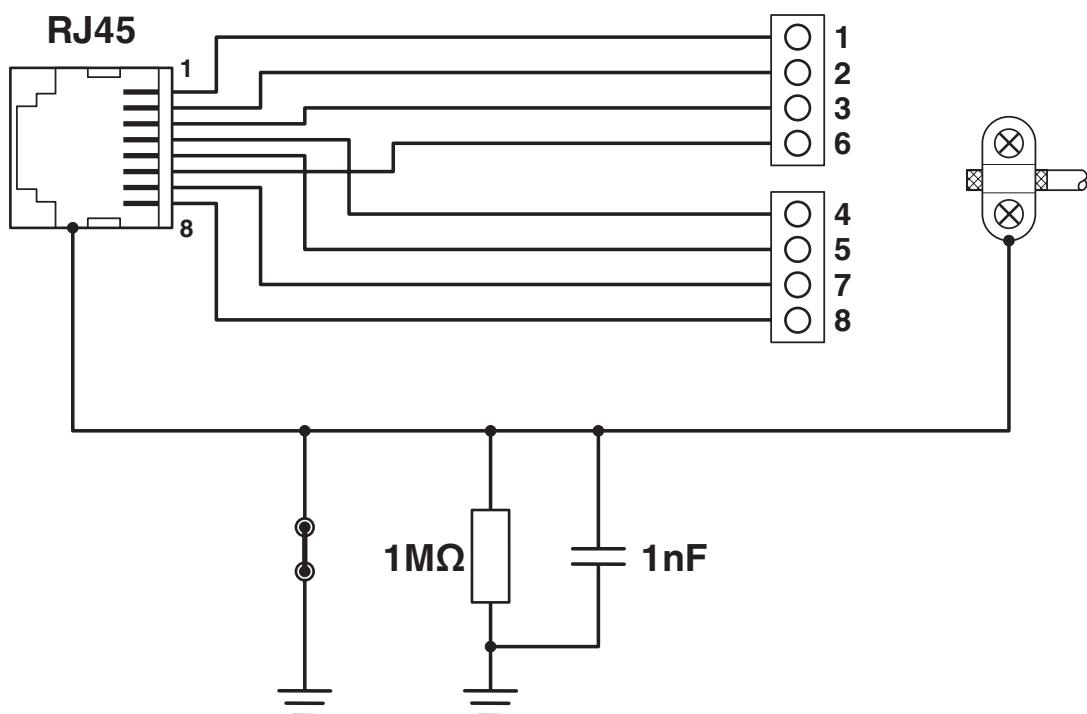
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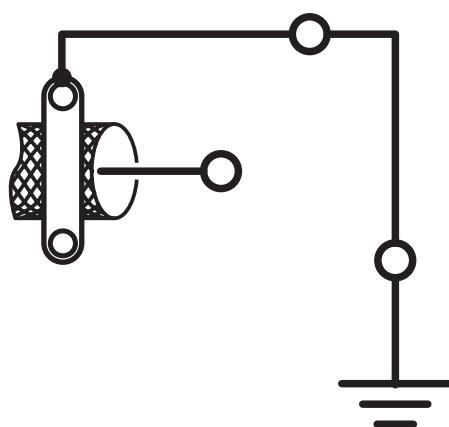


Circuit diagram



Circuit diagram

Circuit diagram



Shield connection direct to PE

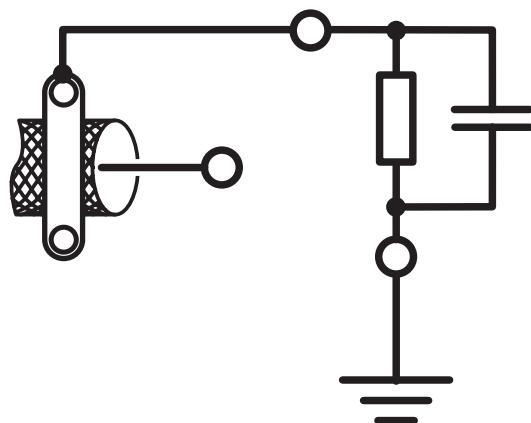
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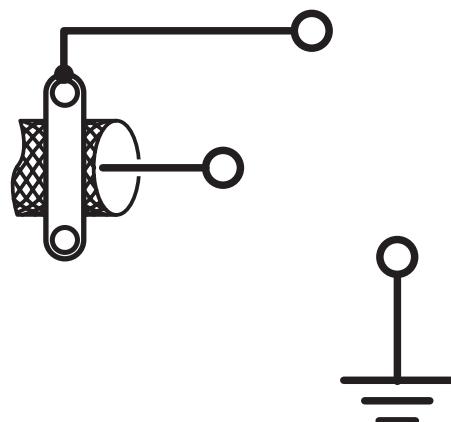
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Circuit diagram



Circuit diagram



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## Approvals

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



**DNV GL**

Approval ID: TAA00001KR

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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	43223309
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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-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.
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### EU REACH SVHC

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