

# FL-PP-RJ45/RJ45 - Patch panel



2901646

<https://www.phoenixcontact.com/us/products/2901646>

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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

## 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
- CAT5e
- 10/100/1000 Mbps
- Mounting on a DIN rail
- Easy and convenient extension for RJ45 cable
- 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	2901646
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	DN07
Product key	DNC331
GTIN	4046356622806
Weight per piece (including packing)	53.8 g
Weight per piece (excluding packing)	57.26 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

CCCex 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))

### Interfaces

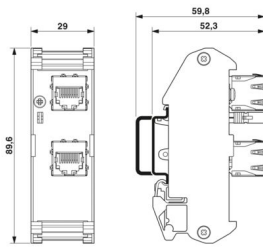
Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

Serial transmission speed	10/100/1000 Mbps
Connection method	RJ45 jack
Note on the connection method	CAT5e
No. of channels	1
Pin assignment	1:1
Transmission length	100 m (including patch cables)

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)
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Material (Housing)	PVC / PA
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## Cable/line

Cable impedance	100 Ω
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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≤ 2500
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## 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
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### ATEX

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

### UKEX

Identification	Ⓜ 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

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2901646

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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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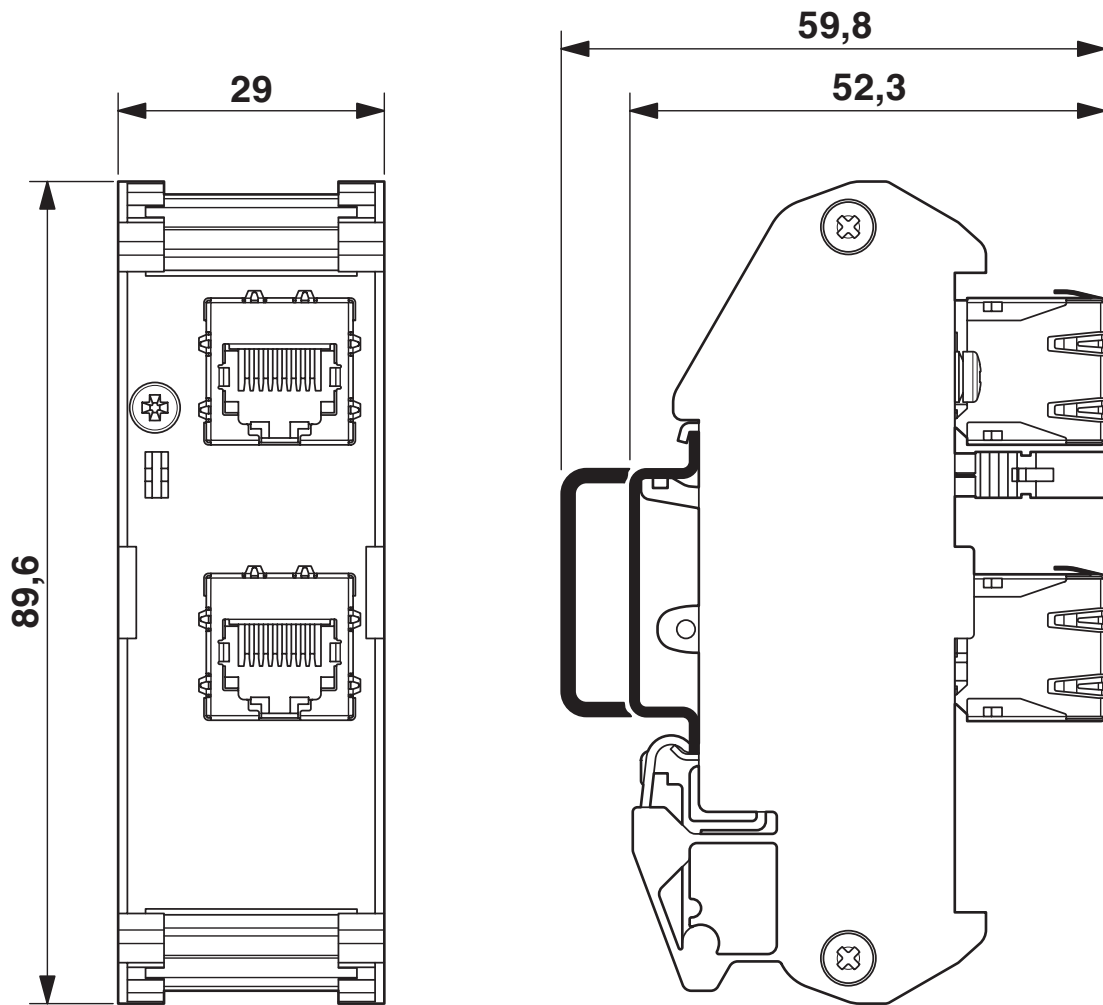
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## Drawings

Dimensional drawing



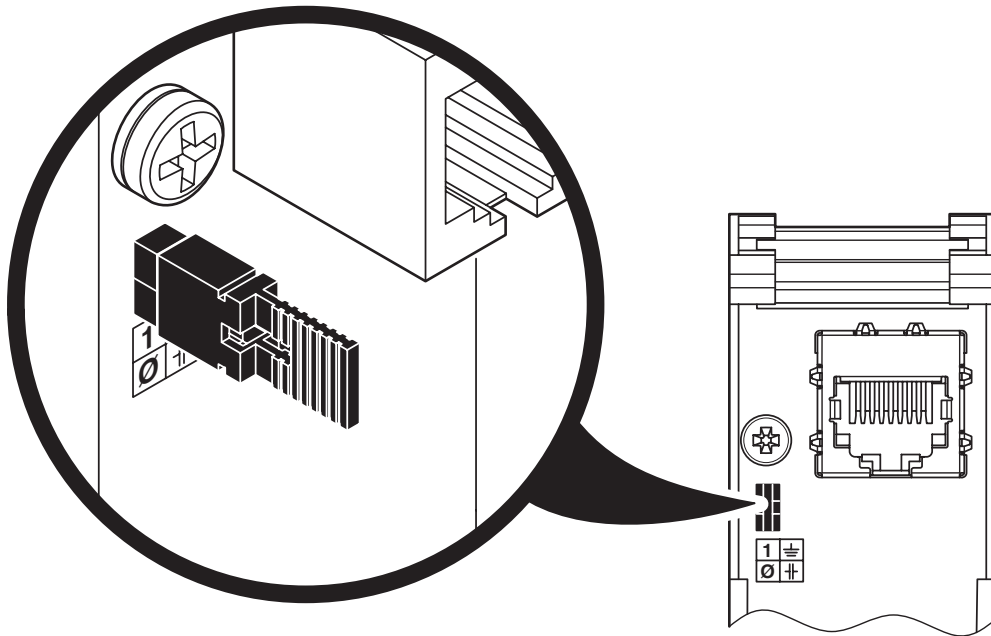
Dimensional drawing

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2901646

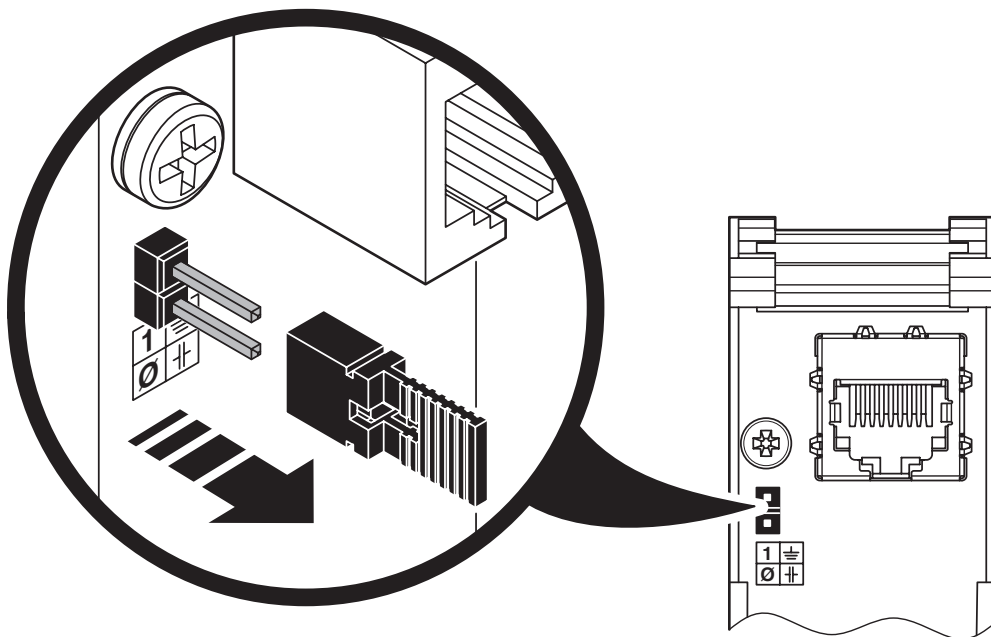
<https://www.phoenixcontact.com/us/products/2901646>

Schematic diagram



Shield connection direct to PE

Schematic diagram



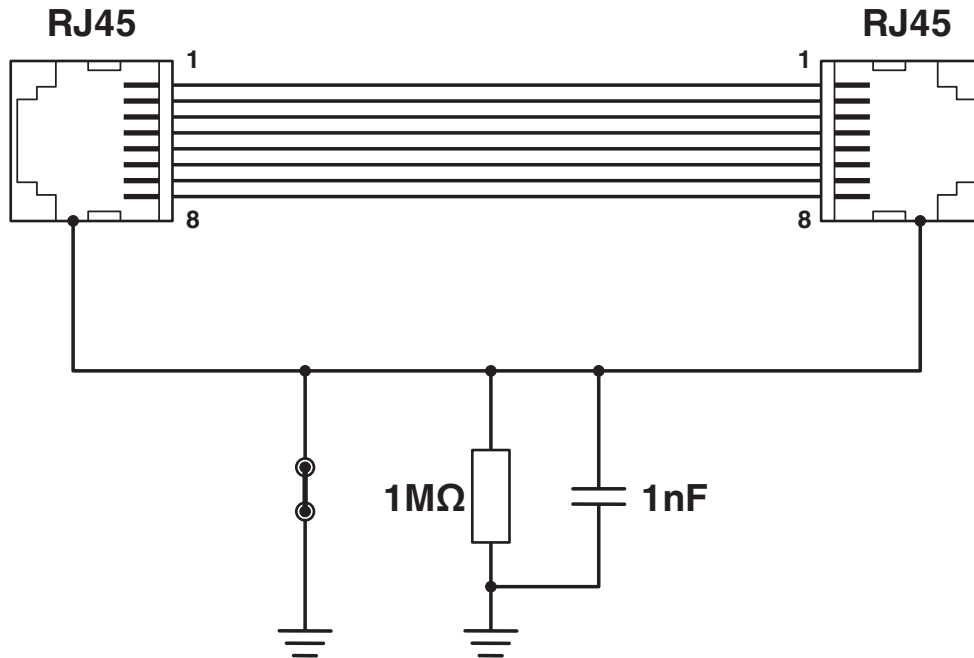
Shield connection to PE via RC element

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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/2901646>



**DNV GL**

Approval ID: TAA00001KR

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2901646

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## Classifications

### ECLASS

ECLASS-13.0	19170112
ECLASS-15.0	19170112

### ETIM

ETIM 10.0	EC001128
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### UNSPSC

UNSPSC 21.0	43223309
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2901646

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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.

### EU REACH SVHC

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