

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



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Patch panel, two RJ45 jacks, CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, shield current monitoring, surge protection

Product description

This product is the successor to FL-PP-RJ45/RJ45, item no. 2901646. Ethernet patch panels enable quick and easy connection between the field cabling and control cablinet cabling. The passive termination panels are a convenient alternative to the on-site assembly of RJ45 connectors.

Your advantages

- 10/100/1000 Mbps
- Extended temperature range of -40 °C ... +75 °C
- Integrated surge protection to ensure high system availability
- · Shield current monitoring with visual display
- · Shipbuilding approval in accordance with DNV GL
- PoE-capable in accordance with IEEE 802.3bt, type 4

Commercial data

Item number	2703020
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN07
Product key	DNC334
GTIN	4055626463308
Weight per piece (including packing)	139.1 g
Weight per piece (excluding packing)	24.2 g
Customs tariff number	85366990
Country of origin	DE



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



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.
roduct properties	
Product type	Patch panel
IEC test classification	C2
MTTF	3281 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	1245 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	472 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
Insulation characteristics	
Overvoltage category	II
Pollution degree	2
lectrical properties	
Electrical isolation	FE // Ethernet
Maximum power dissipation for nominal condition	0 W
Rated insulation voltage	85 V DC
Supply	
Supply voltage range	36 V DC 52 V DC ±10 % (via PoE (for shield current monitoring))
	42 V DC 57 V DC (in acc. with UL)
Function	
Designation	Shield current monitoring
Switch-on threshold	≥ 30 mA
Local diagnostics	Yellow LED
Precision	± 5 %
Response time	3 s
Current	≤ 1.5 A
Power consumption	270 mW (Shield current monitoring)
1 ower consumption	
Impedance	≤ 1 Ω

Interfaces

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



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



Serial transmission speed	10/100/1000 Mbps
Frequency range	125 MHz
Connection method	RJ45 jack
Note on the connection method	CAT5e
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Transmission medium	Copper
Maximum output power	60 W
Maximum output current	725 mA (PoE)
Current carrying capacity	≤ 1.5 A (≤ 60 W (PoE+))

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

ŀ
ac

Signaling

Optical representation	Yellow LED
------------------------	------------

Dimensions

Dimensional drawing	23.6
Width	23.8 mm
Height	101.3 mm
Depth	86 mm

Material specifications

Color (Housing)	light gray (RAL 7035)
Material (Housing)	Plastic
Flammability rating according to UL 94	V0

Mechanical tests

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	: 10 Hz 57 Hz, amplitude ±3.5 mm, 57 Hz 150 Hz, 5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	: 30g for 11 ms, three shocks in each spatial direction
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	: 10g for 16 ms, 1000 shocks in each spatial direction

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (Manufacturer's declaration)
Ambient temperature (operation)	-40 °C 75 °C



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



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)
provals	
DE	
Certificate	CE-compliant
ATEX	
Identification	
Certificate	PxCIF18ATEX2703020X
Note	Please follow the special installation instructions in the documentation!
JL, USA/Canada	
Identification	Class I, Zone 2, AEx nA IIC T4, Ex nA IIC Gc X T4
	Class I, Div. 2, Groups A, B, C, D
JL, USA	
Certificate	UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4
JL, 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
Shipbuilding data	
Temperature	D
Humidity	В
Vibration	В
EMC	В
IC data	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
	FCC Part 15B Class A
	CISPR 22
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Contact discharge	± 6 kV (Test Level 3)



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



Discharge in air	± 8 kV (Test Level 3)
Indirect discharge	± 6 kV
Comments	Criterion B
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz 3 GHz (Test Level 3)
Field intensity	10 V/m
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	± 2.2 kV (1 minute)
Signal	± 2.2 kV (1 minute)
Comments	Criterion B
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Otali adi adi. Oggi adiono	
Surge current load (surge)	
Input	± 0.5 kV
Signal	± 1 kV (Data line, asymmetrical)
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Frequency range	0.15 MHz 80 MHz
Comments	Criterion A
Voltage	10 V
Emitted interference	
Standards/regulations	EN 61000-6-4
Comments	Class A, industrial applications
Emitted interference	
Standards/regulations	EN 61000-6-3
Comments	Class B, domain of use: residential and small commercial
Criteria	
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

Standards and regulations



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



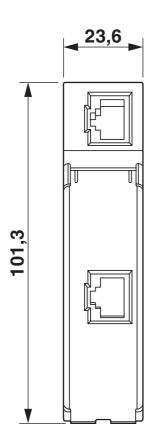
	Standards/regulations	DIN EN 61643-21
Mounting		
	Mounting type	DIN rail mounting
	Useable DIN rail type	DIN rail: 35 mm

2703020

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

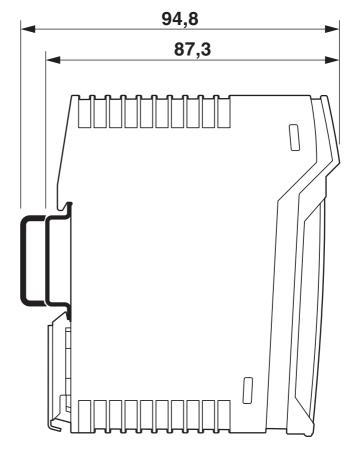


Drawings



Housing dimensions

Dimensional drawing

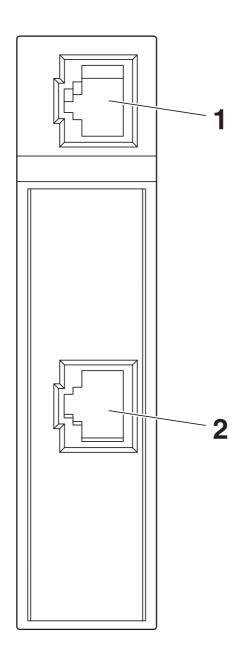


2703020

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



Schematic diagram



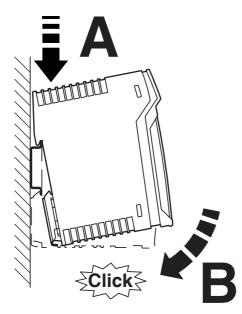
Front view

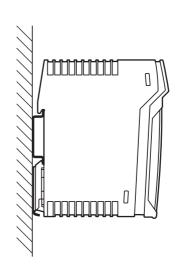
2703020

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



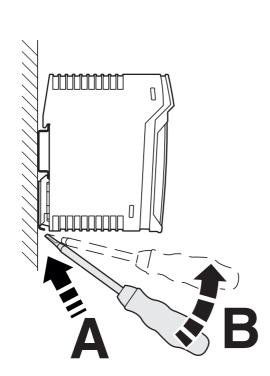
Schematic diagram

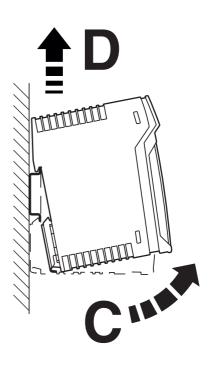




Mounting on a DIN rail

Schematic diagram





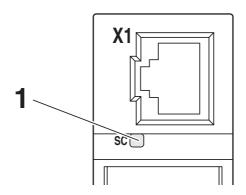
Removal

2703020

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

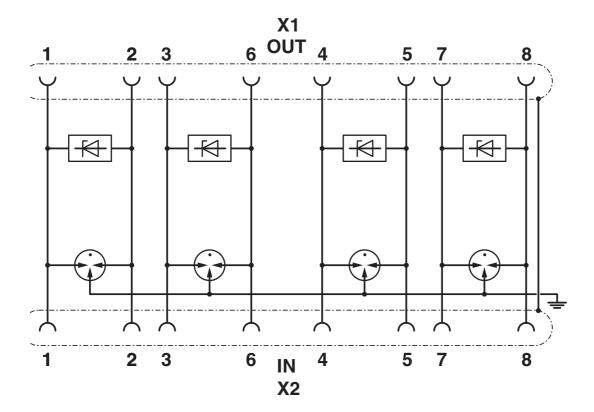


Schematic diagram



Shield current monitoring

Circuit diagram



Circuit diagram



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



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2703020



DNV GL

Approval ID: TAA00001KR



ATEX

Approval ID: PxCIF18ATEX2703020X



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



Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	19170112	
	ECLASS-15.0	19170112	
ETIM			
	ETIM 9.0	EC001128	
UNSPSC			

43223300



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



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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.)	Lead(CAS: 7439-92-1)
SCIP	6d0f614e-b9fe-4363-b1b6-eddd8c6931ba

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com