PHŒNIX CONTACT

Patch panels - PP-RJ-RJ - 2703015

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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Patch panel, two RJ45 sockets, 10/100/1000 Mbps, DIN rail mounting, IP20

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

☑ Extended temperature range of -40°C to +75°C

☑ 10/100/1000 Mbps

☑ Shipbuilding approval in accordance with DNV GL

RoHS · PROFINET® · Modbus · dnp Distributed Network Protocol COMPLETE Rev.

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 462868
GTIN	4055626462868
Weight per Piece (excluding packing)	103.200 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Caption	Compact housing
Width	23.8 mm
Height	101.3 mm
Depth	50 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 75 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

PHŒNIX CONTACT

Patch panels - PP-RJ-RJ - 2703015

Technical data

Ambient conditions

Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Altitude	≤ 5000 m (For restrictions, see the manufacturer's declaration for altitude operation)
	≤ 2000 m (Restrictions for ATEX applications)
Degree of protection	IP20 (Manufacturer's declaration)

General

Net weight	103.2 g
Housing material	Plastic
Color	gray
MTTF	105699 Years
Degree of pollution	2
Overvoltage category	II

Interfaces

Interface 1	Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u
Connection method	RJ45 socket
Transmission length	100 m (including patch cables)
Pin assignment	1:1
Serial transmission speed	10/100/1000 Mbps
Output nominal voltage	< 60 V (ATEX approval)
	< 57 V DC (With UL approval)
Maximum output current	725 mA (Per channel)
Maximum output power	60 W
Interface 2	Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u
Connection method	RJ45 CAT5e

Conformance/approvals

Designation	CE
Identification	CE-compliant
Designation	ATEX
Identification	# II 3 G Ex nA IIC Gc U
Additional text	Please follow the special installation instructions in the documentation!
Designation	UL, USA
Certificate	UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4
Designation	UL, Canada
Certificate	CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16
Designation	Corrosive gas test
Identification	ISA-S71.04-1985 G3 Harsh Group A
Designation	Shipbuilding
Identification	DNV GL
Temperature	D
Humidity	B

PHŒNIX CONTACT

Patch panels - PP-RJ-RJ - 2703015

Technical data

Conformance/approvals

Vibration	B
EMC	B

Standards and Regulations

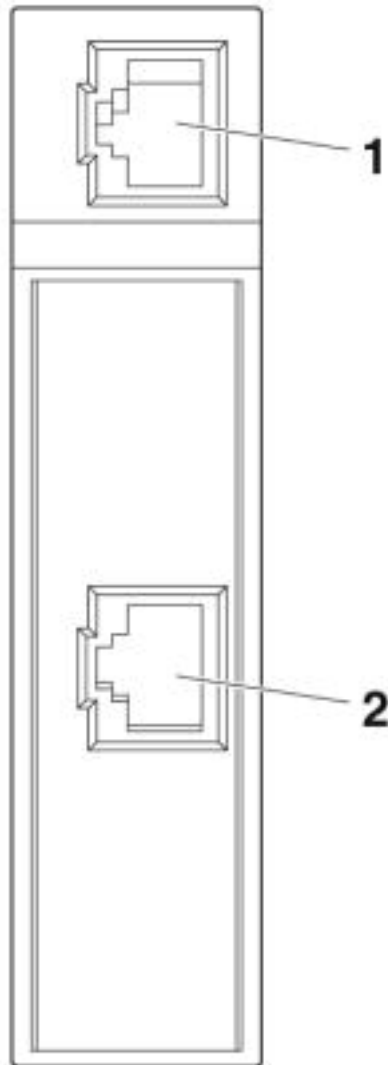| Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	10 Hz ... 57 Hz, amplitude ±3.5 mm, 57 Hz ... 150 Hz, 5g
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	30g for 11 ms, three shocks in each spatial direction
Type of test	Continuous shock according to EN 60068-2-27/IEC 60068-2-27
Test result	10g for 16 ms, 1000 shocks in each spatial direction
Rated insulation voltage	85 V DC

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

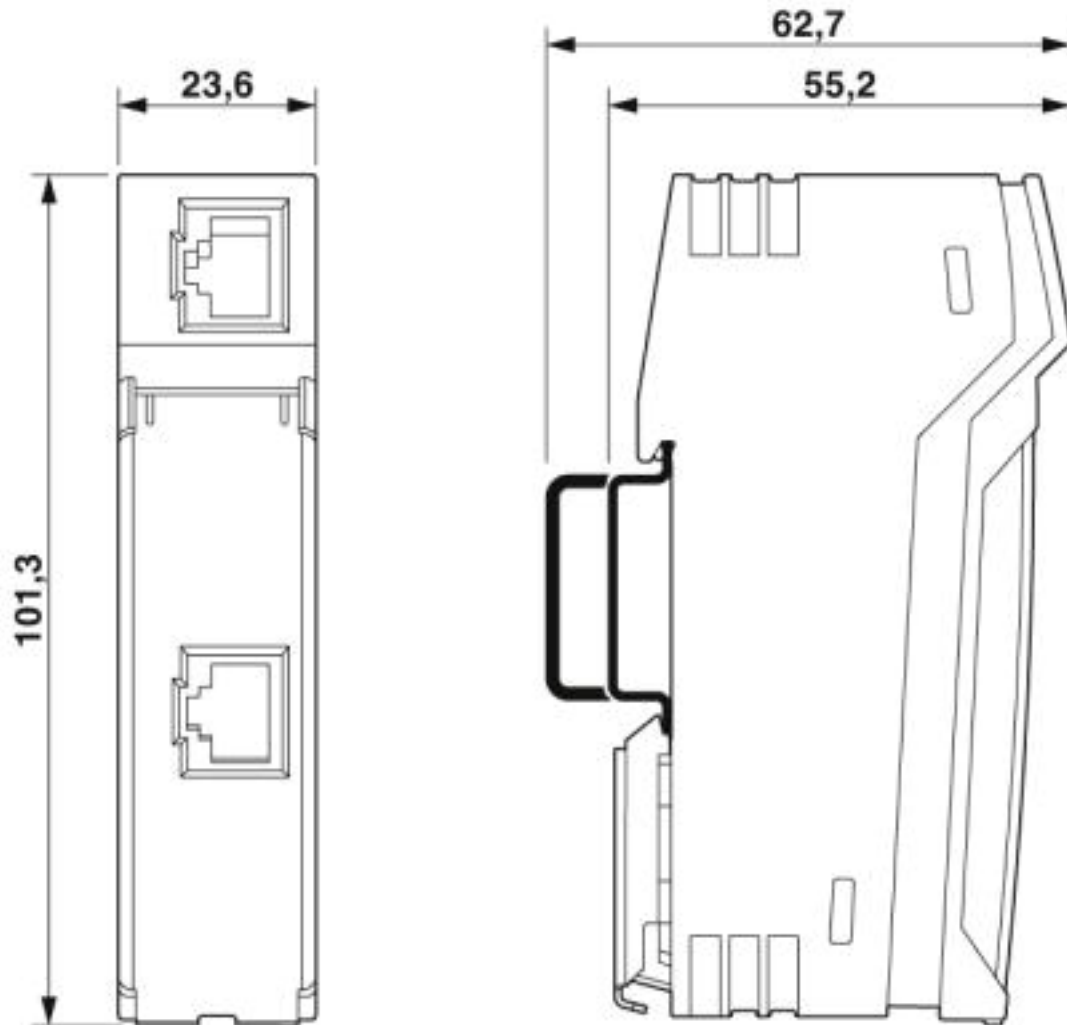# Patch panels - PP-RJ-RJ - 2703015

Schematic diagram

Front view

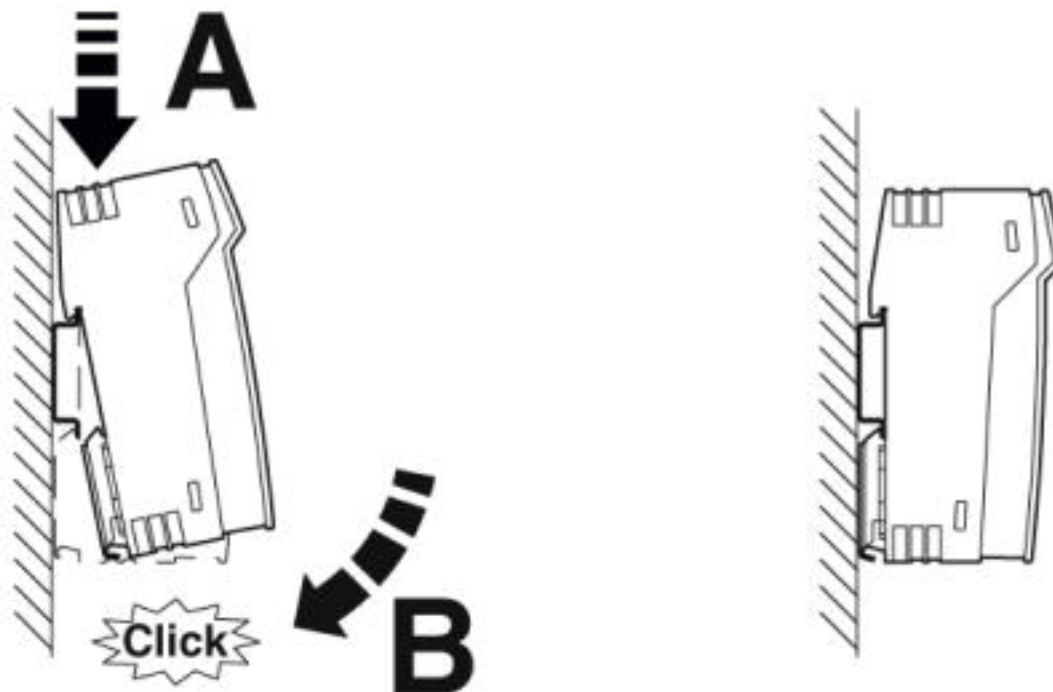**PHŒNIX CONTACT**

Patch panels - PP-RJ-RJ - 2703015

Dimensional drawing

Compact housing

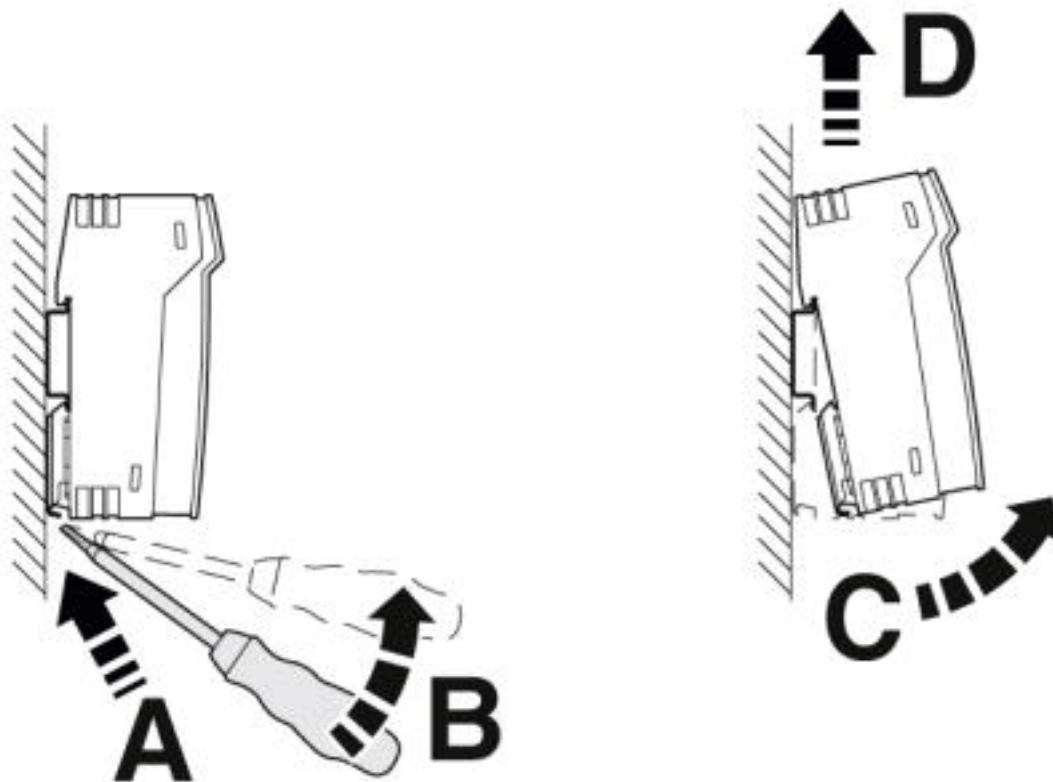# Patch panels - PP-RJ-RJ - 2703015

Schematic diagram

Mounting on a DIN rail

Patch panels - PP-RJ-RJ - 2703015

Schematic diagram

Removal

Classifications

eCl@ss

eCl@ss 6.0	19170100
eCl@ss 7.0	19170112
eCl@ss 8.0	19170112
eCl@ss 9.0	19170112

ETIM

ETIM 5.0	EC002599
ETIM 6.0	EC002599
ETIM 7.0	EC002599

Approvals

Approvals

Approvals

UL Listed / cUL Listed / DNV GL / cULus Listed

PHŒNIX CONTACT

Patch panels - PP-RJ-RJ - 2703015

Approvals

Ex Approvals

UL Listed / cUL Listed / ATEX / cULus Listed

Approval details

UL Listed	(UL) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

cUL Listed	c(UL) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

DNV GL	DNV-GL MARITIME	https://approvalfinder.dnvgl.com/	TAA00001KR

cULus Listed	c(UL)us LISTED	

Accessories

Accessories

Data cable by the meter

Network cable - FL CAT5 HEAVY - 2744814

CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm², solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter

Network cable - FL CAT5 FLEX - 2744830

CAT5-SF/UTP cable (J-LI02YS(ST)C H 2 x 2 x 26 AWG), light-duty, flexible installation cable 2 x 2 x 0.14 mm², stranded, shielded, outer sheath: 5.75 mm ± 0.15 mm diameter

Patch panels - PP-RJ-RJ - 2703015

Accessories

Network cable - VS-OE-OE-94F/... - 1417359

Network cable, Ethernet CAT6$_A$ (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

Data cable preassembled

Network cable - FL CAT5 HEAVY CONF/ - 2744827

CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm², solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line

Network cable - FL CAT5 FLEX CONF/ - 2744843

CAT5-SF/UTP cable (J-LI02YS(ST)C H 2 x 2 x 26 AWG), light-duty, flexible installation cable 2 x 2 x 0.14 mm², stranded, shielded, outer sheath: 5.75 mm ± 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line assignment

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 1411854

Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6$_A$, cable outlet: straight

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

![PHOENIX CONTACT]

Patch panels - PP-RJ-RJ - 2703015

Accessories

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

Patch cable - NBC-R4AC/1,0-93B/R4AC - 1408968

PROFINET patch cable, shielded, star-quad, 22 AWG stranded (7-wire), green, straight RJ45 male connector/IP20 to straight RJ45 male connector/IP20, length: 1.0 m

Patch cable - NBC-R4AC/2,0-93B/R4AC - 1408969

PROFINET patch cable, shielded, star quad, 22 AWG stranded (7-wire), green, straight RJ45 plug/IP20, to straight RJ45 plug/IP20, length: 2 m

Data plug

RJ45 connector - VS-08-RJ45-10G/Q - 1419001

RJ45 connector, IP20, CAT6$_A$, 8-pos., with QUICKON fast connection technology, for 26 ... 24 AWG 1-wire and 7-wire conductors, color: black

RJ45 connector - VS-PN-RJ45-5-Q/IP20 - 1658435

RJ45 connector, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, cable outlet: straight, color: traffic grey A RAL 7042

Patch panels - PP-RJ-RJ - 2703015

Accessories

RJ45 connector - VS-08-RJ45-5-Q/IP20 - 1656725

RJ45 connector, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042

RJ45 connector - VS-08-RJ45-5-Q/IP20 BK - 1658008

RJ45 connector, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, connection cross section: AWG 26- 23, cable outlet: straight, color: black

Electronics pliers

Diagonal cutter - MICROFOX-SP - 1212488

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

Network isolator

Network isolator - FL ISOLATOR 100-RJ/SC - 2313928

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. Connection using RJ45 and COMBICON plug-in screw terminal block.

Network isolator - FL ISOLATOR 100-RJ/RJ - 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.

PHŒNIX CONTACT

Patch panels - PP-RJ-RJ - 2703015

Accessories

Network isolator - FL ISOLATOR 1000-RJ/RJ - 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.

Network isolator - FL ISOLATOR 100-M12 - 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).

Patch cable

Patch cable - FL CAT5 PATCH 0,3 - 2832250

Patch cable, CAT5, assembled, 0.3 m

Patch cable - FL CAT5 PATCH 0,5 - 2832263

Patch cable, CAT5, assembled, 0.5 m

Patch cable - FL CAT5 PATCH 1,0 - 2832276

Patch cable, CAT5, assembled, 1 m

Patch panels - PP-RJ-RJ - 2703015

Accessories

Patch cable - FL CAT5 PATCH 1,5 - 2832221

Patch cable, CAT5, assembled, 1.5 m

Patch cable - FL CAT5 PATCH 2,0 - 2832289

Patch cable, CAT5, assembled, 2 m

Patch cable - FL CAT5 PATCH 3,0 - 2832292

Patch cable, CAT5, assembled, 3 m

Patch panel

Patch panels - PP-RJ-RJ-F - 2703020

Patch panel, two RJ45 sockets, 10/100/1000 Mbps, DIN rail mounting, IP20, shield current monitoring, surge protection

Patch panels - PP-RJ-SC-F - 2703021

Patch panel, RJ45 socket on screw terminal blocks, 10/100/1000 Mbps, DIN rail mounting, IP20, shield contacting with strain relief, shield current monitoring, surge protection

Patch panels - PP-RJ-RJ - 2703015

Accessories

Patch panels - PP-RJ-SCC-F - 2703022

Patch panel, RJ45 socket on Push-in terminal blocks, 10/100/1000 Mbps, DIN rail mounting, IP20, shield contacting with strain relief, shield current monitoring, surge protection

Patch panels - PP-RJ-IDC-F - 2703023

Patch panel, RJ45 socket on IDC terminal blocks, 10/100/1000 Mbps, DIN rail mounting, IP20, shield contacting with strain relief, shield current monitoring, surge protection

Screwdriver tools

Screwdriver - SZF 0-0,4X2,5 - 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

Screwdriver - SZF 0-0,4X2,5 - 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

Assembly tool - FL CRIMPTOOL - 2744869

Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site

Patch panels - PP-RJ-RJ - 2703015

Accessories

Stripping tool - VS-CABLE-STRIP-VARIO - 1657407

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

---

Additional products

Patch panels - FL-PP-RJ45-SC - 2901643

Patch panel, one RJ45 socket to 8 screw connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail mounting, IP20, option of shield contacting on DIN rail via jumpers

---

Patch panels - FL-PP-RJ45-LSA - 2901645

Patch panel, one RJ45 socket to 8 IDC connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail mounting, IP20, option of shield contacting on DIN rail via jumpers

---

Patch panels - FL-PP-RJ45/RJ45 - 2901646

Patch panel, two RJ45 sockets (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail mounting, IP20, option of shield contacting on DIN rail via jumpers

---