

https://www.phoenixcontact.com/gb/products/2703022



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

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

- 10/100/1000 Mbps
- Extended temperature range of -40 °C ... +75 °C
- · Fast connection of the field cable
- · Wiring space covered with front panel cover
- · Tool-free shield contacting with strain relief
- · 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	2703022
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC334
Product key	DNC334
Catalog page	Page 361 (C-6-2019)
GTIN	4055626463346
Weight per piece (including packing)	145.4 g
Weight per piece (excluding packing)	124.2 g
Customs tariff number	85369010
Country of origin	DE



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Technical data

Notes

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area
Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.
oduct properties	
IEC test classification	C2
Product type	Patch panel
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
ectrical 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)
	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)
Impedance	≤ 1 Ω

Interfaces

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



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Serial transmission speed	10/100/1000 Mbps
Frequency range	125 MHz
Connection method	Push-in connection
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Conductor cross section flexible max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm² (only together with CRIMPFOX 6)
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ² (only together with CRIMPFOX 6)
Conductor cross section, rigid max.	1.5 mm²
Conductor cross section, rigid min.	0.2 mm²
Max. AWG conductor cross section, flexible	16
Min. AWG conductor cross section, flexible	26
Single-wire/terminal point, rigid AWG max.	16
Single-wire/terminal point, rigid AWG min.	26
Stripping length	8 mm
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

Connection method	RJ45 jack

Signaling

Optical representation	Yellow LED
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Dimensions

Dimensional drawing	94,8
Width	23.8 mm
Height	101.3 mm
Depth	86 mm

Material specifications

Material	Plastic
Flammability rating according to UL 94	V0

Cable/line



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External cable diameter ()	5.5 mm 6.5 mm
Environmental and real-life conditions	
Environmental and real life conditions	
Ambient conditions	
Degree of protection	IP20 (Manufacturer's declaration)
Ambient temperature (operation)	-40 °C 75 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	\leq 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)
Approvals	
CE	
Certificate	CE-compliant CE-compliant
ATEX	
Identification	
Note	Please follow the special installation instructions in the documentation!
III. HOA/Ossarda	
UL, USA/Canada	Obsert Zeer O. A.F. LA HO.T.A. F. LA HO.O. V.T.A.
Identification	Class I, Zone 2, AEx nA IIC T4, Ex nA IIC Gc X T4
	Class I, Div. 2, Groups A, B, C, D
UL, USA	
Certificate	UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4
UL, Canada	
Certificate	CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16
Corrosive gas test	104 074 04 4005 00 11 1 0
Identification	ISA-S71.04-1985 G3 Harsh Group A
Shipbuilding	
Identification	DNV GL
DNV GL data	
Temperature	D
Humidity	В
Vibration	В
EMC	В
EMC data	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
	FCC Part 15B Class A
	CISPR 22



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EN 61000-4-2
± 6 kV (Test Level 3)
± 8 kV (Test Level 3)
± 6 kV
Criterion B
EN 61000-4-3
80 MHz 3 GHz (Test Level 3)
10 V/m
Criterion A
EN 61000-4-4
± 2.2 kV (1 minute)
± 2.2 kV (1 minute)
Criterion B
EN 61000-4-5
± 0.5 kV
± 1 kV (Data line, asymmetrical)
EN 61000-4-6
0.15 MHz 80 MHz
Criterion A
10 V
EN 61000-6-4
Class A, industrial applications
EN 64000 C 2
EN 61000-6-3
Class B, domain of use: residential and small commercial



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	Criterion A	Normal operating behavior within the specified limits.
	Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
Sta	andards and regulations	
	Standards/regulations	DIN EN 61643-21
Mounting		
	Mounting type	DIN rail mounting, stationary

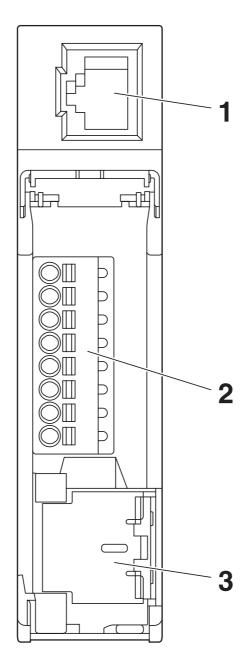
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Drawings

Schematic diagram



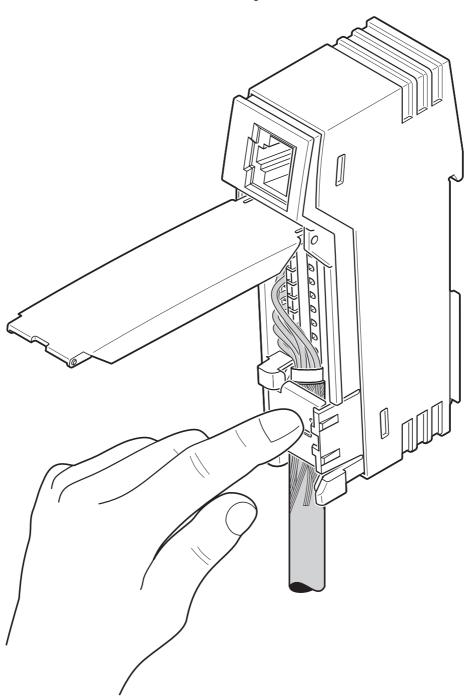
Front view

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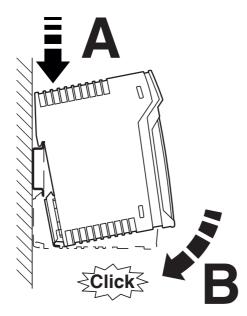
Close shield contact spring

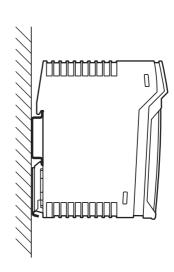
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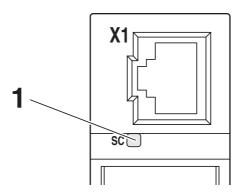






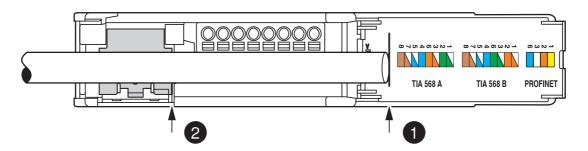
Mounting on a DIN rail

Schematic diagram



Shield current monitoring

Schematic diagram



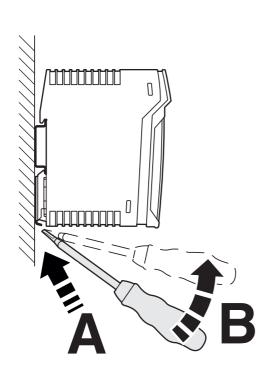
Stripping length

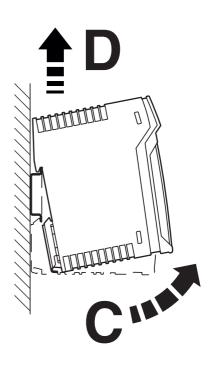
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Schematic diagram





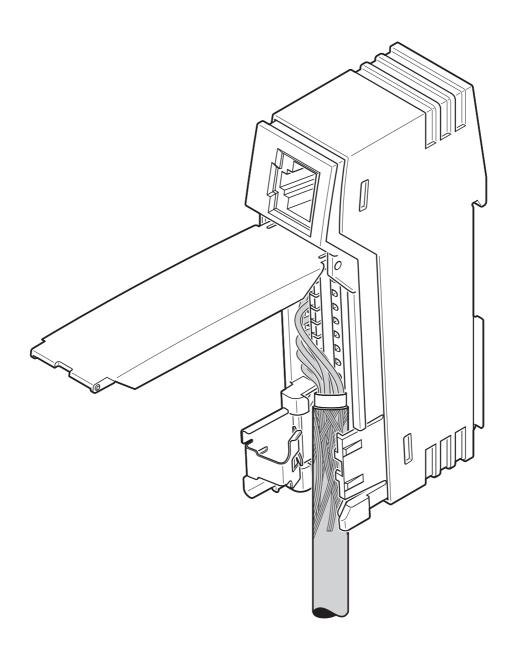
Removal

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Schematic diagram



Inserting the cable

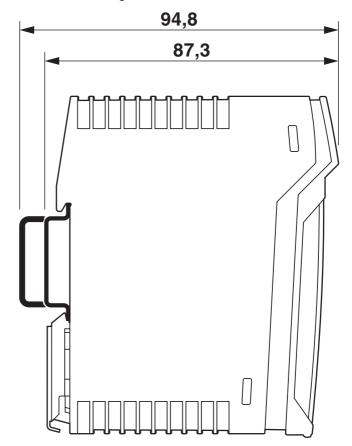


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23,6 ****

Dimensional drawing



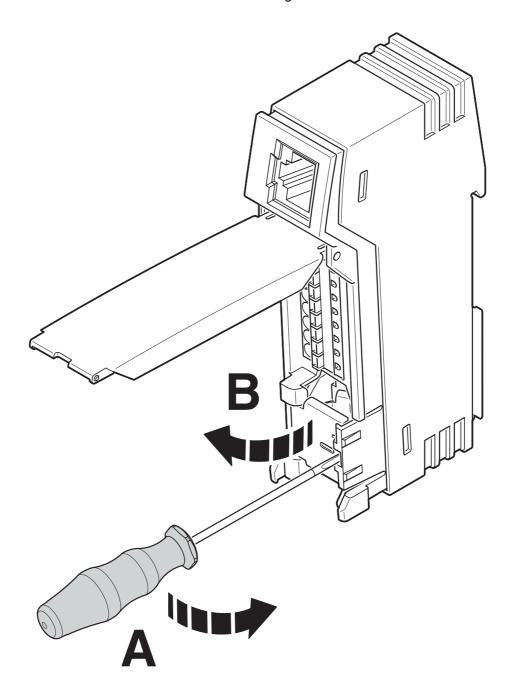
Housing dimensions

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Schematic diagram



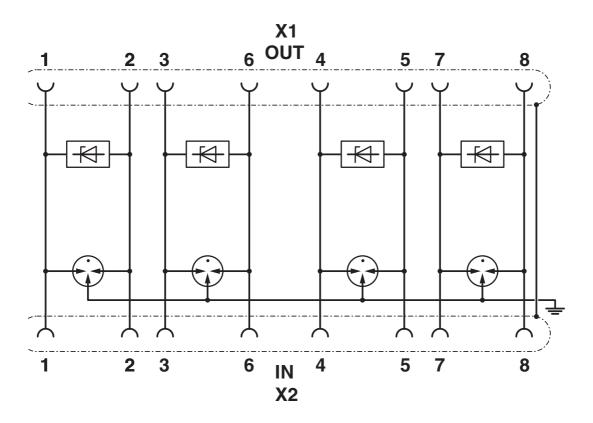
Open shield contact spring



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Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2703022



DNV GL

Approval ID: TAA00001KR



UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



ATEX

Approval ID: PxCIF18ATEX2703020X

cULus Listed



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Classifications

ECLASS

	ECLASS-11.0	19170112
	ECLASS-12.0	19170112
	ECLASS-13.0	19170112
ET	IM	

EC002697

UNSPSC

ETIM 8.0



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

PP-RJ-RJ - Patch panels

2703015

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Patch panel, two RJ45 jacks, 10/100/1000 MBps, DIN rail adapter, IP20

PP-RJ-SC - Patch panels

2703016

https://www.phoenixcontact.com/gb/products/2703016



Patch panel, RJ45 jack on screw terminal blocks, 10/100/1000 Mbps, DIN rail adapter, IP20, shield contacting with strain relief



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PP-RJ-SCC - Patch panels

2703018

https://www.phoenixcontact.com/gb/products/2703018



Patch panel, RJ45 jack on Push-in terminal blocks, 10/100/1000 Mbps, DIN rail adapter, IP20, shield contacting with strain relief

PP-RJ-IDC - Patch panels

2703019

https://www.phoenixcontact.com/gb/products/2703019



Patch panel, RJ45 jack on IDC terminal blocks, 10/100/1000 Mbps, DIN rail adapter, IP20, shield contacting with strain relief



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FL CRIMPTOOL - Assembly tool

2744869

https://www.phoenixcontact.com/gb/products/2744869

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



FL CAT5 FLEX CONF/ - Network cable

2744843

https://www.phoenixcontact.com/gb/products/2744843



CAT5-SF/UTP cable (J-Ll02YS(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 \pm 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line assignment



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FL ISOLATOR 100-RJ/RJ - Network isolator

2313931

https://www.phoenixcontact.com/gb/products/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.

FL ISOLATOR 1000-RJ/RJ - Network isolator

2313915

https://www.phoenixcontact.com/gb/products/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.



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FL ISOLATOR 100-M12 - Network isolator

2902985

https://www.phoenixcontact.com/gb/products/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).

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

1411854

https://www.phoenixcontact.com/gb/products/1411854



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, ${\rm CAT6}_{\rm A}$, cable outlet: straight, Ethernet



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

1408360

https://www.phoenixcontact.com/gb/products/1408360



Patch cable, CAT6 $_{\rm A}$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 $_{\rm m}$

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

1408365

https://www.phoenixcontact.com/gb/products/1408365



Patch cable, CAT6 $_{\rm A}$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m



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

1408968

https://www.phoenixcontact.com/gb/products/1408968



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

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

1408969

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Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET



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FL CAT5 PATCH 0,3 - Patch cable

2832250

https://www.phoenixcontact.com/gb/products/2832250



Patch cable, CAT5, assembled, 0.3 m

FL CAT5 PATCH 0,5 - Patch cable

2832263

https://www.phoenixcontact.com/gb/products/2832263



Patch cable, CAT5, assembled, 0.5 m



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FL CAT5 PATCH 1,0 - Patch cable

2832276

https://www.phoenixcontact.com/gb/products/2832276



Patch cable, CAT5, assembled, 1 m

FL CAT5 PATCH 1,5 - Patch cable

2832221

https://www.phoenixcontact.com/gb/products/2832221



Patch cable, CAT5, assembled, 1.5 m



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FL CAT5 PATCH 2,0 - Patch cable

2832289

https://www.phoenixcontact.com/gb/products/2832289



Patch cable, CAT5, assembled, 2 m

FL CAT5 PATCH 3,0 - Patch cable

2832292

https://www.phoenixcontact.com/gb/products/2832292



Patch cable, CAT5, assembled, 3 m



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

1419001

https://www.phoenixcontact.com/gb/products/1419001



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6_A, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: black, Ethernet

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

1658435

https://www.phoenixcontact.com/gb/products/1658435



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5, material: Plastic, connection method: Insulation displacement connection, cable outlet: straight, color: traffic grey A RAL 7042, PROFINET



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VS-CABLE-STRIP-VARIO - Stripping tool

1657407

https://www.phoenixcontact.com/gb/products/1657407

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



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

1656725

https://www.phoenixcontact.com/gb/products/1656725



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet



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

1658008

https://www.phoenixcontact.com/gb/products/1658008



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: black Ethernet

SZF 0-0,4X2,5 - Screwdriver

1204504

https://www.phoenixcontact.com/gb/products/1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.4 \times 2.5 \times 75$ mm, 2-component grip, with non-slip grip



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MICROFOX-SP - Diagonal cutter

1212488

https://www.phoenixcontact.com/gb/products/1212488



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

VS-OE-OE-94F/... - Data cable

1417359

https://www.phoenixcontact.com/gb/products/1417359



Data cable, Ethernet $CAT6_A$ (10 Gbps), 8-position halogen-free, shielded, free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)



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FL-PP-RJ45-SC - Patch panels

2901643

https://www.phoenixcontact.com/gb/products/2901643



Patch panel, one RJ45 jack to 8 screw 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

FL-PP-RJ45-LSA - Patch panels

2901645

https://www.phoenixcontact.com/gb/products/2901645



Patch panel, one RJ45 jack to 8 LSA connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via bridges



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FL-PP-RJ45/RJ45 - Patch panels

2901646

https://www.phoenixcontact.com/gb/products/2901646



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

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PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk