2703021

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Patch panel, RJ45 jack on screw 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	2703021
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNC334
Product key	DNC334
Catalog page	Page 361 (C-6-2019)
GTIN	4055626463339
Weight per piece (including packing)	149.6 g
Weight per piece (excluding packing)	124.2 g
Customs tariff number	85369010
Country of origin	DE

2703021

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Technical data

Notes

EMC note	EMC: class A product, see manufacturer's declaration in the download area
ilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.
duct properties	
IEC test classification	C2
Product type	Patch panel
MTTF	3268 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	1238 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	468 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)
nsulation characteristics	
Overvoltage category	1
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	≤1Ω
impedance	- 1 32

Interfaces

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

2703021

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Serial transmission speed	10/100/1000 Mbps
Frequency range	125 MHz
Connection method	Screw connection
Tightening torque	0.22 Nm 0.25 Nm
Pin assignment	1:1
Transmission length	100 m (including patch cables)
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section, rigid max.	1.5 mm ²
Conductor cross section, rigid min.	0.14 mm ²
Max. AWG conductor cross section, flexible	16
Min. AWG conductor cross section, flexible	28
Single-wire/terminal point, rigid AWG max.	16
Single-wire/terminal point, rigid AWG min.	28
Stripping length	5 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 R.	RJ45 jack
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Signaling

Optical representation Yellow LED

Dimensions

Dimensional drawing	
Width	23.8 mm
Height	101.3 mm
Depth	86 mm

Material specifications

Material	Plastic
Flammability rating according to UL 94	V0

Cable/line

External cable diameter ()	5.5 mm 6.5 mm
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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
ATEX	
Identification	ll 3 G Ex nA nC IIC T4 Gc X
Note	Please follow the special installation instructions in the documentation!
UL, 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
UL, 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
DNV GL data	
Temperature	D
Humidity	В
Vibration	В
EMC	В
EMC //C data	В
Electromagnetic compatibility	Conformance with EMC Directive 2014/3

FCC Part 15B Class A

CISPR 22

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Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Contact discharge	± 6 kV (Test Level 3)
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
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.

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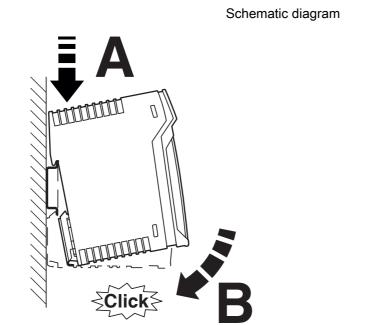


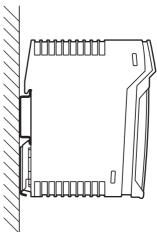
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.
Standards and regulations	
Standards/regulations	DIN EN 61643-21
Mounting	
Mounting type	DIN rail mounting, stationary

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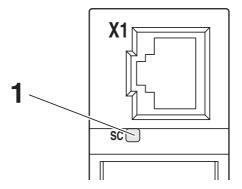
Drawings



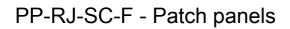


Mounting on a DIN rail

Schematic diagram

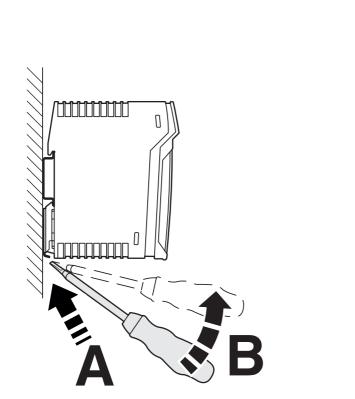


Shield current monitoring

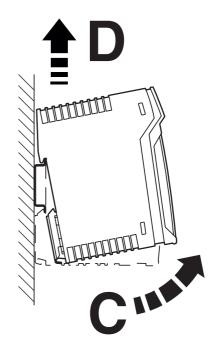


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Schematic diagram

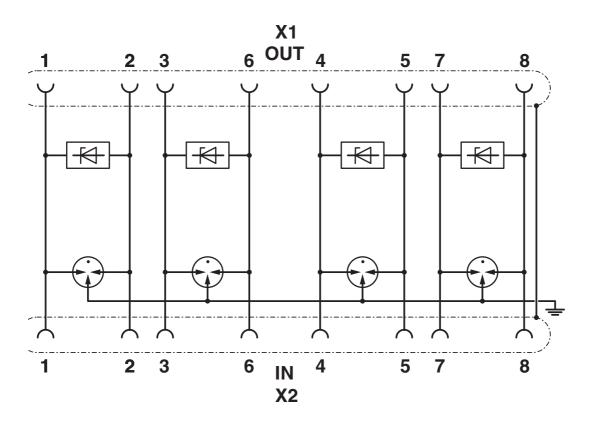


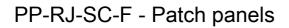
Removal

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Circuit diagram

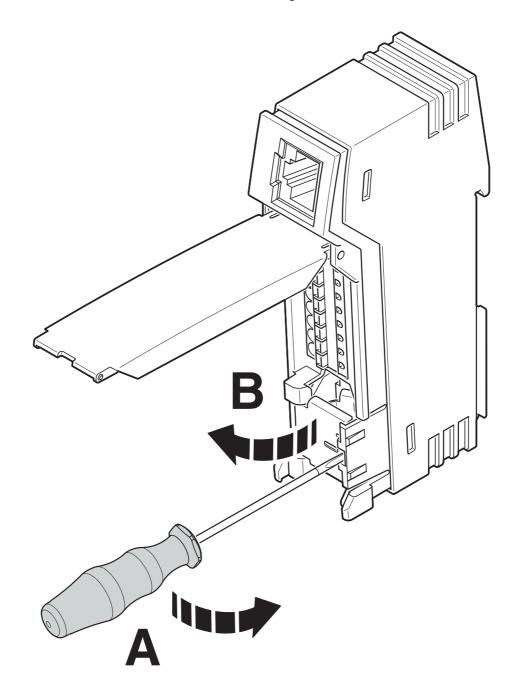




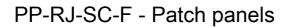
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Schematic diagram



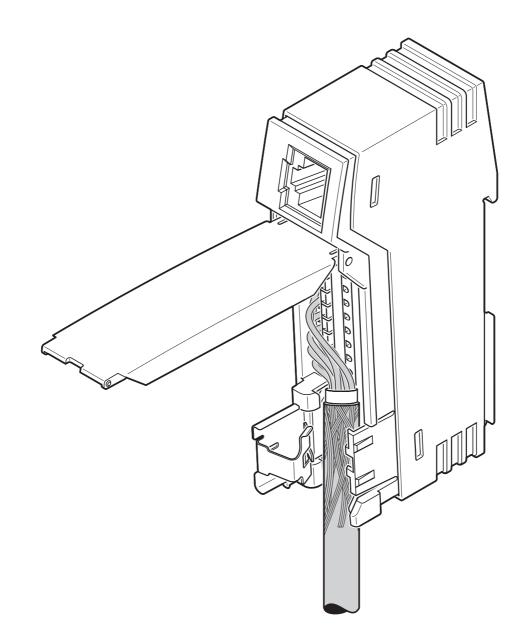
Open shield contact spring



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Schematic diagram



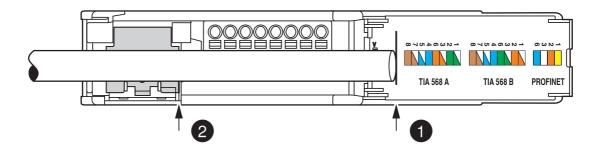
Inserting the cable

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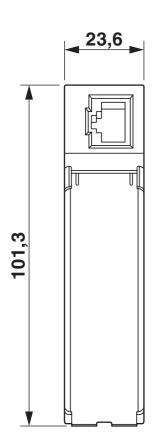


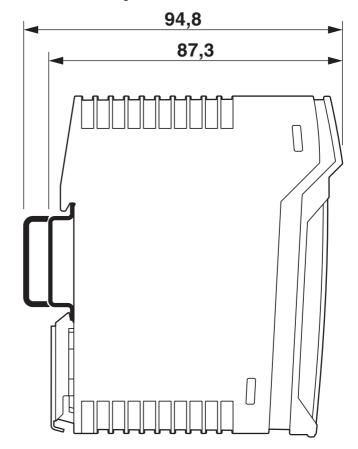
Schematic diagram



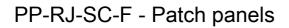
Stripping length

Dimensional drawing





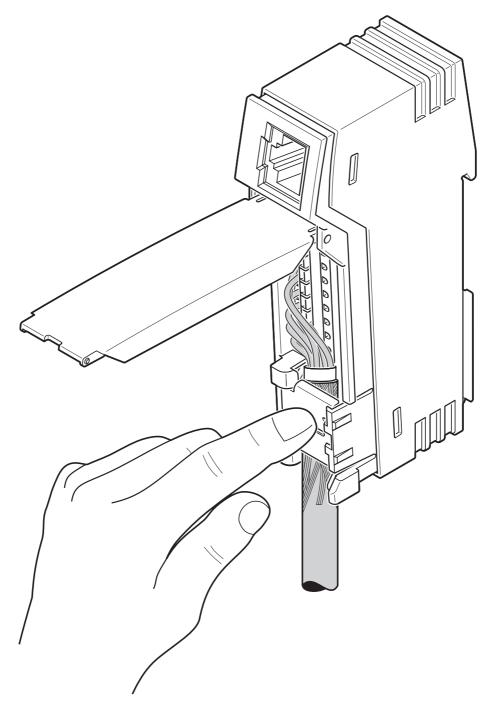
Housing dimensions



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Schematic diagram

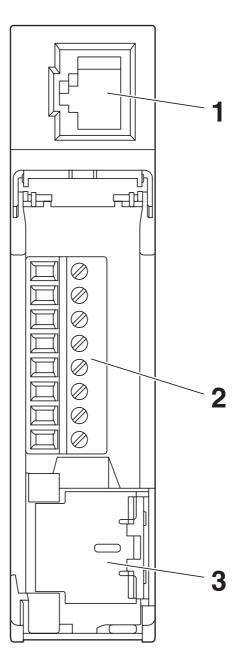


Close shield contact spring

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Schematic diagram



Front view

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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2703021

	DNV GL Approval ID: TAA00001KR	
	UL Listed Approval ID: FILE E 238705	
	CUL Listed Approval ID: FILE E 238705	
(Ex)	ATEX Approval ID: PxCIF18ATEX2703020X	
cULus Listed		

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Classifications

ECLASS

ECLASS-11.0	19170112
ECLASS-12.0	19170112
ECLASS-13.0	19170112

ETIM

	ETIM 8.0	EC002697			
UNSPSC					
	UNSPSC 21.0	43223300			

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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 https://www.phoenixcontact.com/gb/products/2703015

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 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.

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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.

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).

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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, CAT6_A, cable outlet: straight, Ethernet

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

1408360

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

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

1408365

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

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

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

1408969

https://www.phoenixcontact.com/gb/products/1408969



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

FL CAT5 PATCH 0,3 - Patch cable

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



Patch cable, CAT5, assembled, 0.3 m

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FL CAT5 PATCH 0,5 - Patch cable

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

Patch cable, CAT5, assembled, 0.5 m



FL CAT5 PATCH 1,0 - Patch cable

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



Patch cable, CAT5, assembled, 1 m

2703021 https://www.phoenixcontact.com/gb/products/2703021



FL CAT5 PATCH 1,5 - Patch cable

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

Patch cable, CAT5, assembled, 1.5 m



FL CAT5 PATCH 2,0 - Patch cable

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



Patch cable, CAT5, assembled, 2 m

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FL CAT5 PATCH 3,0 - Patch cable

2832292

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

Patch cable, CAT5, assembled, 3 m



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

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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

VS-CABLE-STRIP-VARIO - Stripping tool

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

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



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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

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

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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

MICROFOX-SP - Diagonal cutter

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



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

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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)

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

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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

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