

Modem - TC ETH EXTENDER S19 - 2702077

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19" Ethernet communication unit for networking systems and stations via SHDSL technology. Data rates of up to 30 Mbps, distances of up to 20 km on in-house copper cables via line, star, and ring structures. Diagnostics via LEDs or software.



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356945516

Technical data

Dimensions

Caption	Dimensional drawing
Width	438 mm
Height	178 mm
Depth	330 mm

Ambient conditions

Ambient temperature (operation)	5 °C ... 35 °C (Cabinet temperature)
Ambient temperature (storage/transport)	0 °C ... 50 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Degree of protection	IP20
Noise immunity	EN 61000-6-2

General

Electrical isolation	VCC // Ethernet // DSL (A) // DSL (B) // FE
Test voltage data interface/power supply	1.5 kV _{rms} (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Net weight	10900 g
Housing material	Steel, powder-coated
MTTF	34 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)

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Technical data

General

	26 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	16 Years (SN 29500 standard, temperature 40°C, operating cycle 100%)

Power supply

Nominal supply voltage	230 V AC (50 Hz ... 60 Hz)
Supply voltage range	100 V AC ... 240 V AC
Typical current consumption	< 300 mA (220 V AC)

Interfaces

Interface 1	Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3
Interface	Ethernet
No. of ports	4
Connection method	RJ45 jack, shielded
Transmission length	< 100 m (shielded twisted pair)
Protocols supported	Transparent protocol for IPv4 and IPv6
Serial transmission speed	10/100 Mbps, auto negotiation
Interface 2	SHDSL interface according to ITU-T G.991.2.bis
No. of ports	12 (2-wire operation)
Connection method	Socket M8
Transmission length	< 20 km (Depending on data rate and cable cross section)
Serial transmission speed	4-wire operation: 64 kbps ... 30 Mbps
	2-wire operation: 32 kbps ... 15.3 Mbps
Interface 3	USB 2.0
Connection method	USB Type B
Transmission length	< 5 m (only for configuration and diagnostics)

Function

Management	Plug and Play, diagnostics via PSI-CONF software or web-based management (only with managed Ethernet extenders)
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Conformance/approvals

Designation	CE
Identification	CE-compliant

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 61000-6-2
Vibration (operation)	DIN EN 60068-2-6

Protective circuit

IEC test classification	B2
	C1
	C2
	C3

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Technical data

Protective circuit

	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Maximum continuous voltage U_C	185 V DC
	130 V AC
Rated current	≤ 380 mA (25 °C)
Operating effective current I_C at U_C	≤ 6 μ A
Residual current I_{PE}	≤ 4 μ A
Nominal discharge current I_n (8/20) μ s (line-line)	≤ 5 kA
Nominal discharge current I_n (8/20) μ s (line-earth)	≤ 5 kA
Pulse discharge current I_{imp} (10/350) μ s	2.5 kA (Number of pulses category D1)
Total discharge current I_{total} (8/20) μ s	10 kA
Nominal pulse current I_{an} (10/1000) μ s (line-line)	100 A
Nominal pulse current I_{an} (10/1000) μ s (line-earth)	100 A
Nominal pulse current I_{an} (10/700) μ s (line-line)	150 A
Nominal pulse current I_{an} (10/700) μ s (line-earth)	150 A
Voltage protection level U_p (line-line)	250 V (B2 - 100 A)
	≤ 250 V (C1 - 500 A)
	≤ 410 V (C2 - 5 kA)
	≤ 250 V (C3 - 100 A)
Voltage protection level U_p (line-earth)	≤ 580 V (B2 - 100 A)
	≤ 580 V (C1 - 500 A)
	≤ 790 V (C2 - 5 kA)
	≤ 300 V (C3 - 100 A)
Response time t_A (line-line)	≤ 100 ns
Response time t_A (line-earth)	≤ 100 ns
	typ. 0.3 dB ($\leq 2,8$ MHz / 100 Ω)
	typ. 3 dB (≤ 25 MHz / 100 Ω)
Cut-off frequency f_g (3 dB), sym. in 100 Ohm system	25 MHz
Capacity (line-line)	55 pF
Capacity (line-earth)	7 pF
Resistance per path	3.3 Ω 20 %
Surge protection fault message	none
Impulse durability (line-line)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	B2 - 4 kV / 100 A
Impulse durability (line-earth)	B2 - 4 kV / 100 A

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Technical data

Protective circuit

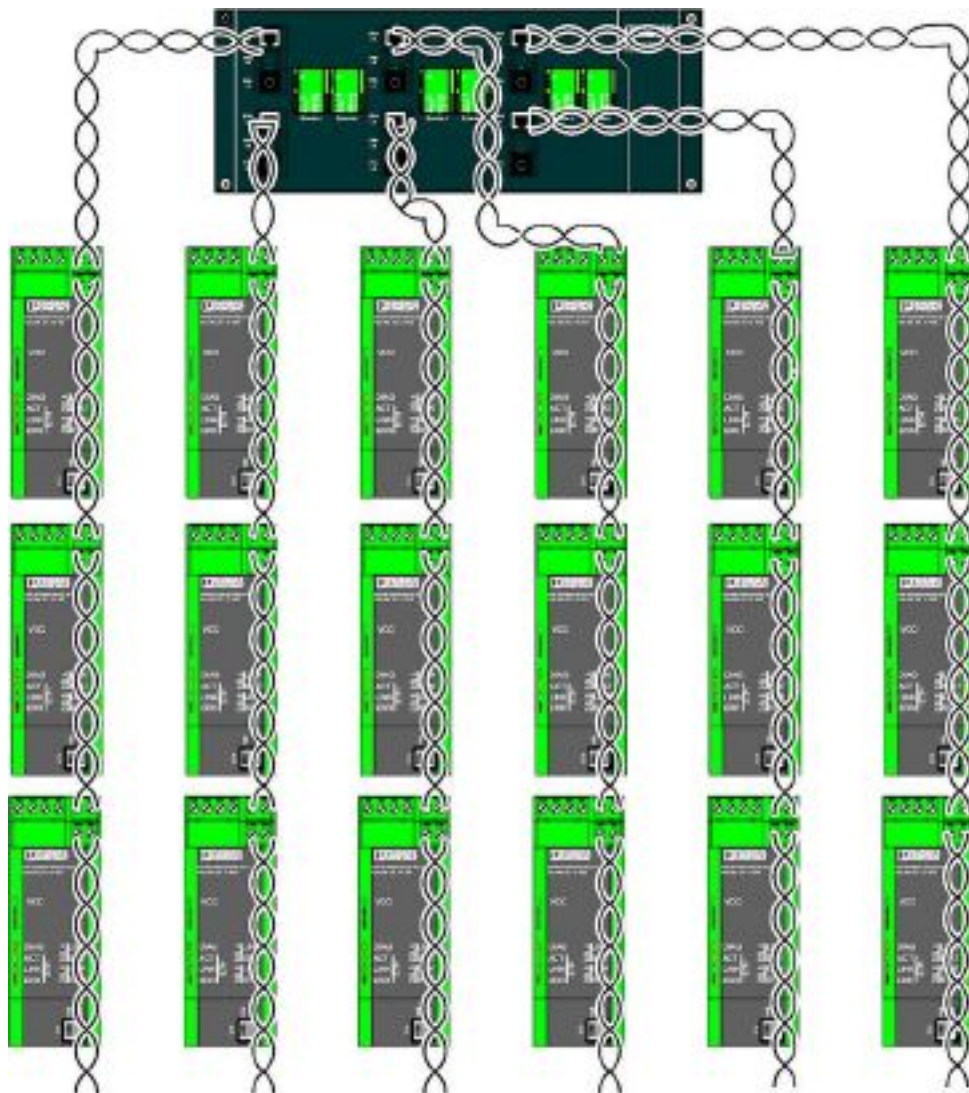
	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	D1 - 1 kA

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

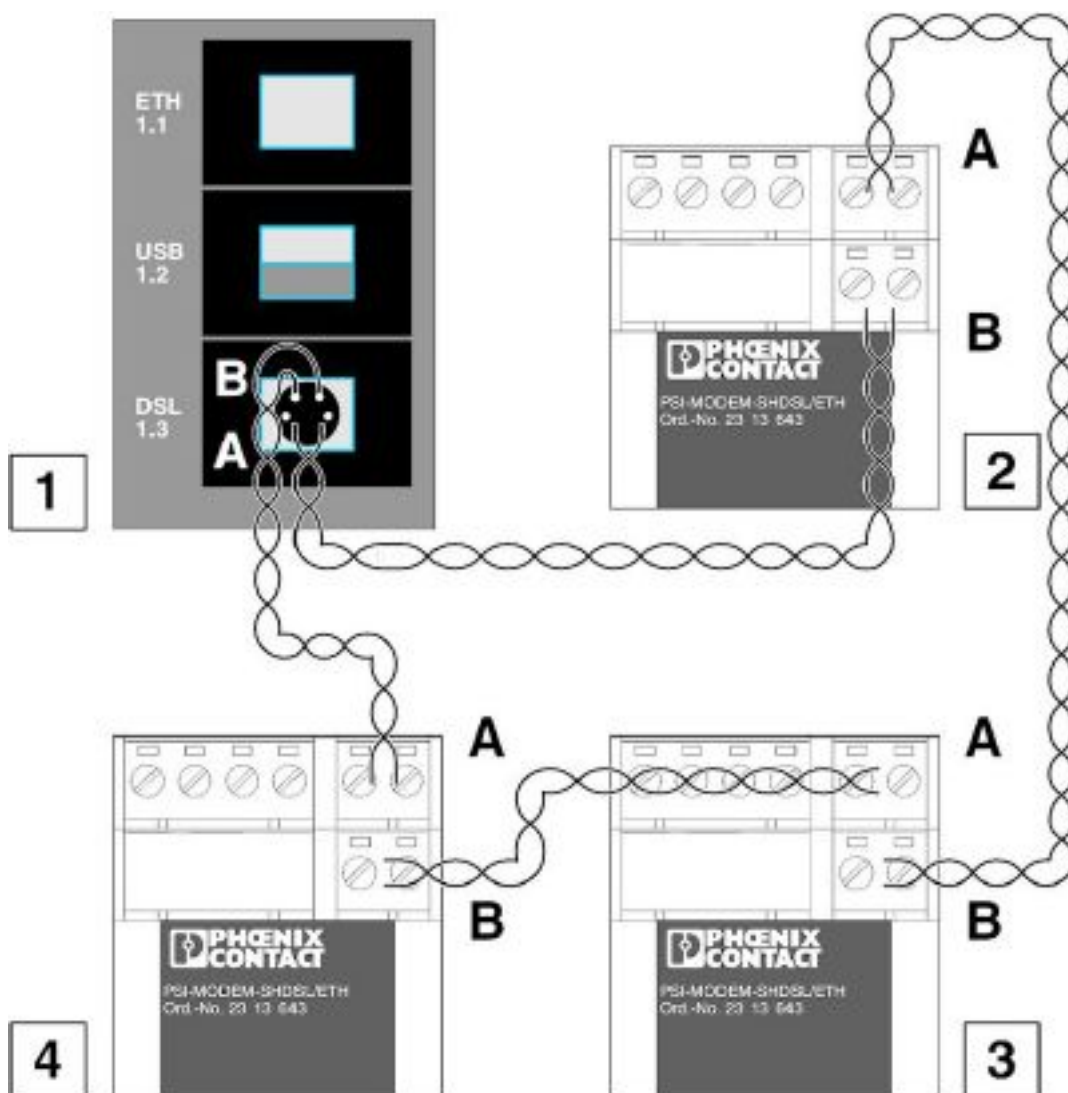
Functional drawing



Example application

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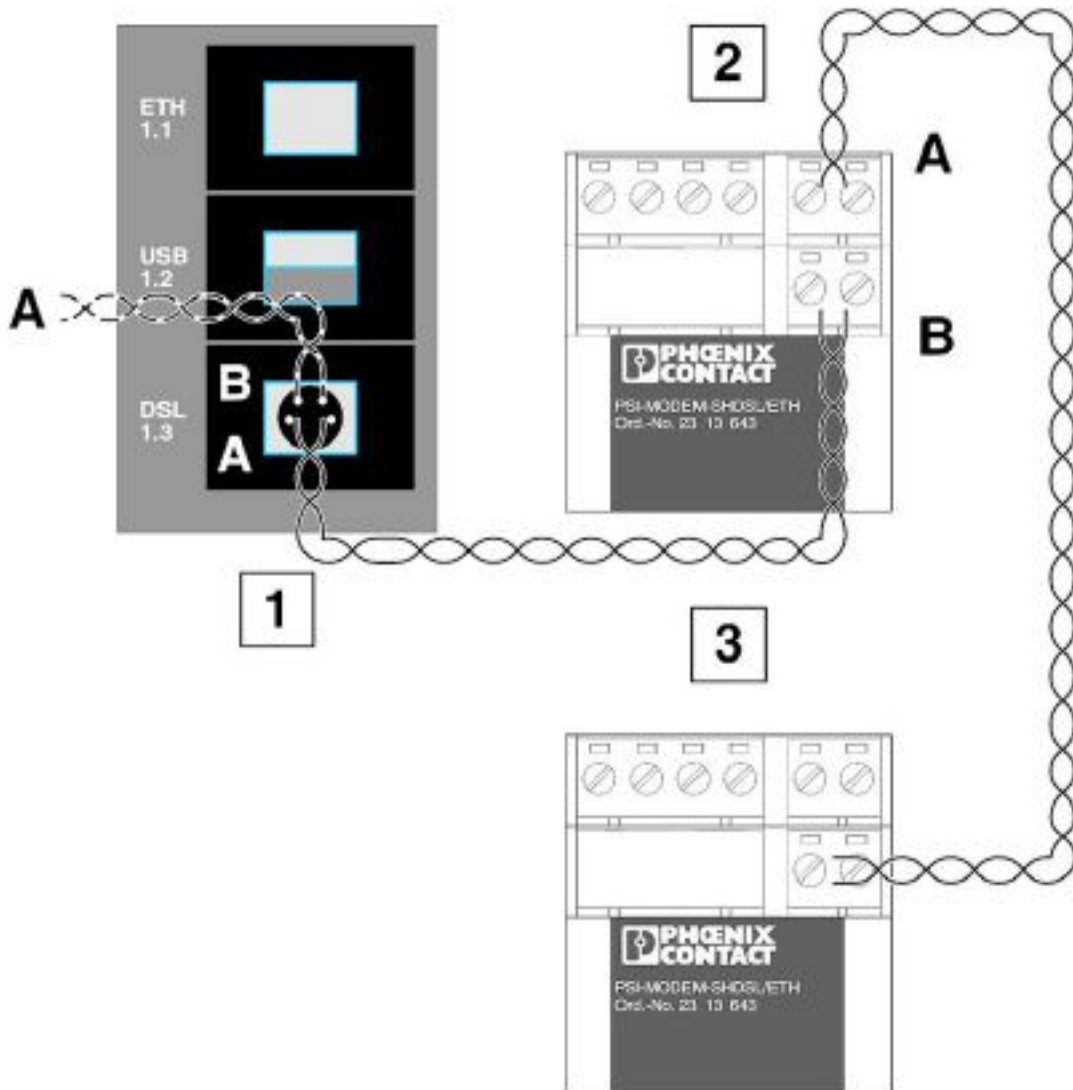
Schematic diagram



Ring structure

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Schematic diagram



Line structure

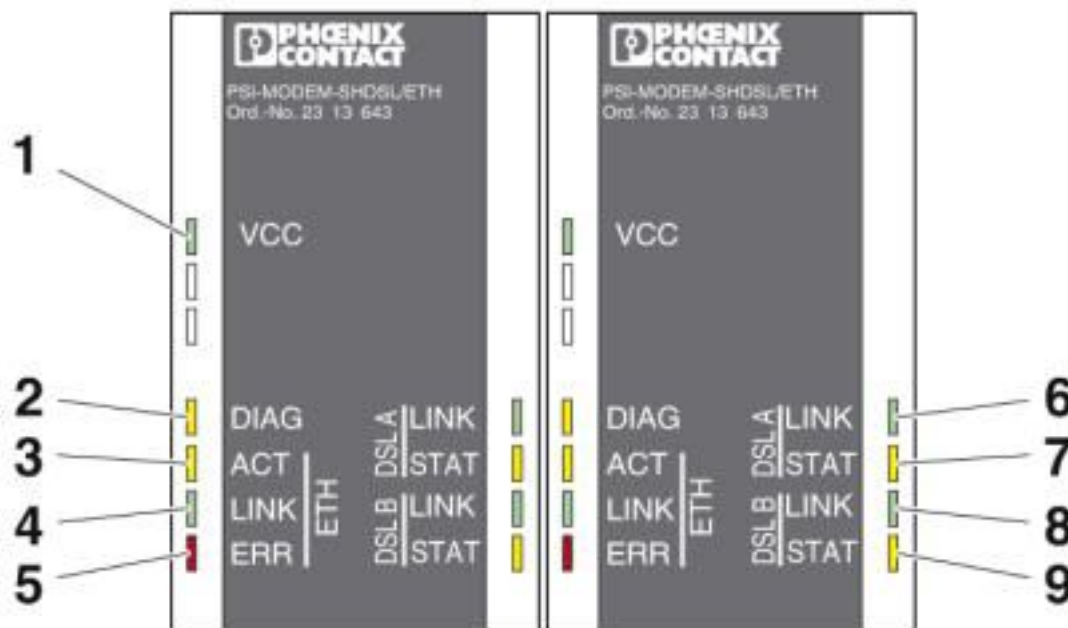
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Dimensional drawing



Dimensional drawing

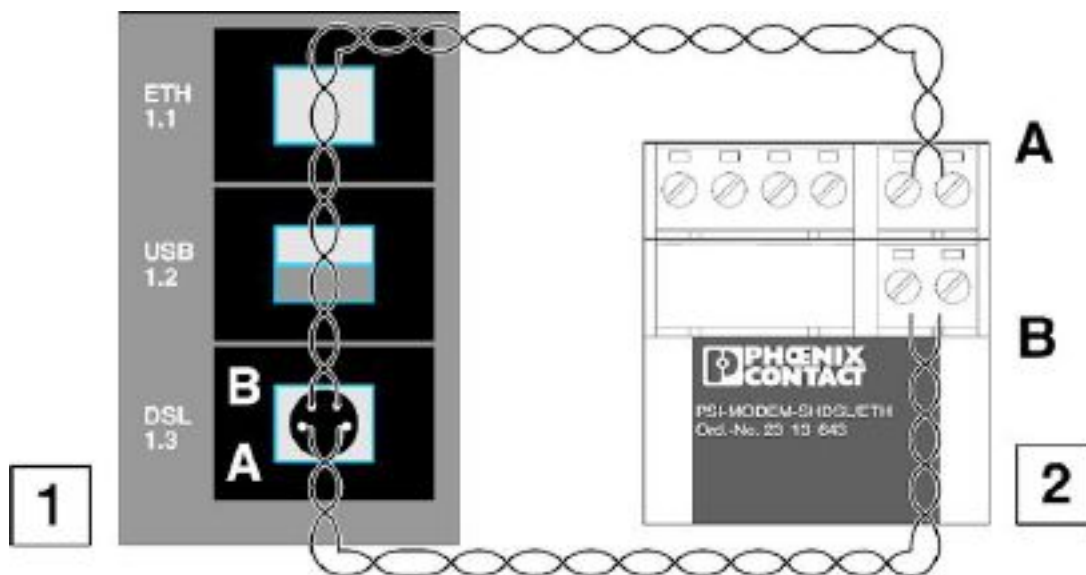
Schematic diagram



LED indicators

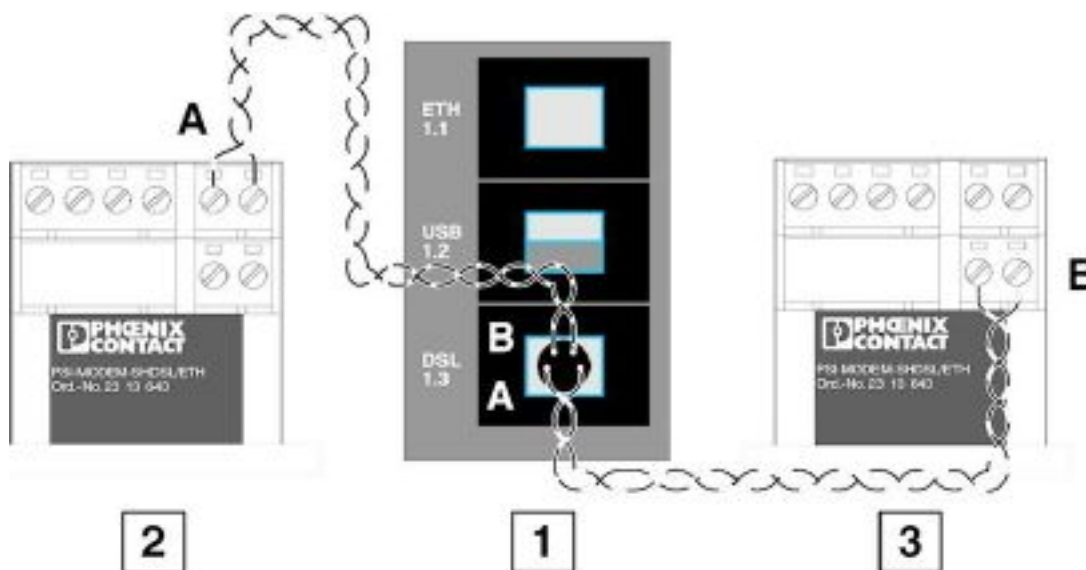
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Schematic diagram



Point-to-point connection (4-wire)

Schematic diagram



Star structure

Classifications

eCl@ss

eCl@ss 10.0.1	19060590
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19060500

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Classifications

eCl@ss

eCl@ss 7.0	19060590
eCl@ss 8.0	19060590
eCl@ss 9.0	19060590

ETIM

ETIM 4.0	EC000740
ETIM 5.0	EC000740
ETIM 6.0	EC000740
ETIM 7.0	EC000740

UNSPSC

UNSPSC 13.2	43222628
UNSPSC 18.0	43222628
UNSPSC 19.0	43222628
UNSPSC 20.0	43222628
UNSPSC 21.0	43222628

Accessories

Accessories

Data cable preassembled

USB cable - VS-04-C-SDA/SDB/1,8 - 1405578



USB cable, with USB connectors at both ends, assembled connector type: A on B, length:1.8 m

Modem

Modem - PSI-MODEM-SHD/ETH - 2313643



First generation: Unmanaged Ethernet extender for point-to-point connections, line and ring structures, data rates up to 30 Mbps, distances of up to 20 km on in-house copper cables, diagnostics via USB and LEDs, 2 SHDSL ports, 1 LAN port

Patch cable

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Accessories

Patch cable - FL CAT6 PATCH 2,0 - 2891589



Patch cable, CAT6, pre-assembled, 2.0 m

Sensor/actuator cable

Sensor/actuator cable - SAC-4P-M 8MS/1,5-PUR - 1681787



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, on free cable end, cable length: 1.5 m

Sensor/actuator cable - SAC-4P-M 8MS/3,0-PUR - 1681790



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, on free cable end, cable length: 3 m

Sensor/actuator cable - SAC-4P-M 8MS/5,0-PUR - 1681800



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, on free cable end, cable length: 5 m

Sensor/actuator cable - SAC-4P-M 8MS/10,0-PUR - 1694143



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, on free cable end, cable length: 10 m

Surge protection for information technology

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Accessories

Surge protection device - DT-TELE-SHDSL - 2801593



Attachment plug with surge protection for two SHDSL telecommunications interfaces (ports). Connection: RJ45 (RJ12/RJ11) and plug-in screw terminal block (COMBICON). Alternatively, can be snapped onto a DIN rail.

Necessary add-on products

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