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Network cable - SPE-T1-M8FSF/2,0-97B/M8FSF - 1217530

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Network cable, Single Pair Ethernet CAT B (10 Mbps), 2-position, PVC, black, shielded (Advanced Shielding Technology), Socket straight M8-SPE / IP67, on Socket straight M8-SPE / IP67, cable length: 2 m

Product Description

Single Pair Ethernet M8 patch cable

Your advantages

☑ Future-proof: standardized connectors in accordance with IEC 63171-5 (IP67)

☑ Easily integrated: Male and female versions for established inductive sensors and flying leads

☑ Efficient: Device connectors for SMD, THR, and wave soldering processes enable automated processing

☑ Straightforward servicing: M8 connectors are compatible with IP20 connectors for SPE

☑ Safely shielded: patch cables with Advanced Shielding Technology

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 298890
GTIN	4063151298890
Weight per Piece (excluding packing)	22.220 g
Sales Key	BF1BJI

Technical data

Dimensions

Length of cable	2 m

Ambient conditions

Degree of protection	IP65
	IP67

General data

	72 V DC

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Technical data

General data

Number of positions	2
Signal type/category	Single Pair Ethernet CAT B (ISO/IEC 63171), 10 Mbps
Standards/regulations	M8 connector IEC 63171-5 T1-SPE
Flammability rating according to UL 94	V0
Overvoltage category	I
Transmission characteristics (category)	CAT B
Transmission speed	up to 10 Mbps

Characteristics head 1

Head type	Socket straight M8-SPE / IP67
Shielded	yes
Insertion/withdrawal cycles	≤ 100
Ambient temperature (operation)	-25 °C ... 85 °C

Characteristics head 2

Head type	Socket straight M8-SPE / IP67
Shielded	yes
Insertion/withdrawal cycles	≤ 100
Ambient temperature (operation)	-25 °C ... 85 °C

Pin assignment

Contact	Color (signal designation)	Contact (optional)	
1	WH (RX/TX+)	1
2	BU (RX/TX-)	2

Standards and Regulations

Standards/specifications	M8 connector IEC 63171-5 T1-SPE

Cable

Cable type	Single Pair Ethernet PUR flexible, black
Cable type (abbreviation)	97B
UL AWM style	2095 (80°C/300 V)
Signal type/category	Single Pair Ethernet
Cable structure	1 x 2 x AWG 22/7, S/FTP
Conductor cross section	2x 0.34 mm²
AWG signal line	22
Conductor structure signal line	7x
Core diameter including insulation	1.65 mm
Wire colors	white, blue
Twisted pairs	2 cores to the pair
Overall twist	1 pair with fillers twisted horizontally
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	80 %
External sheath, color	black

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Cable

Outer sheath thickness	0.55 mm
External cable diameter D	5.1 mm ±0.2 mm
Minimum bending radius, fixed installation	4 x D
Outer sheath, material	PVC
Material conductor insulation	Foamed PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	$\geq$ 5 GΩ*km
Conductor resistance	$\leq$ 59.4 Ω/km
Wave impedance	100 Ω ±15 Ω (at 20 MHz)
Nominal voltage, cable	300 V
Flame resistance	According to FT-2
Ambient temperature (operation)	-20 °C ... 80 °C (cable, fixed installation)
Shielded	yes

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

Drawings

Schematic diagram
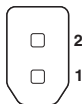
Pin assignment, Single Pair Ethernet, 2 pos.
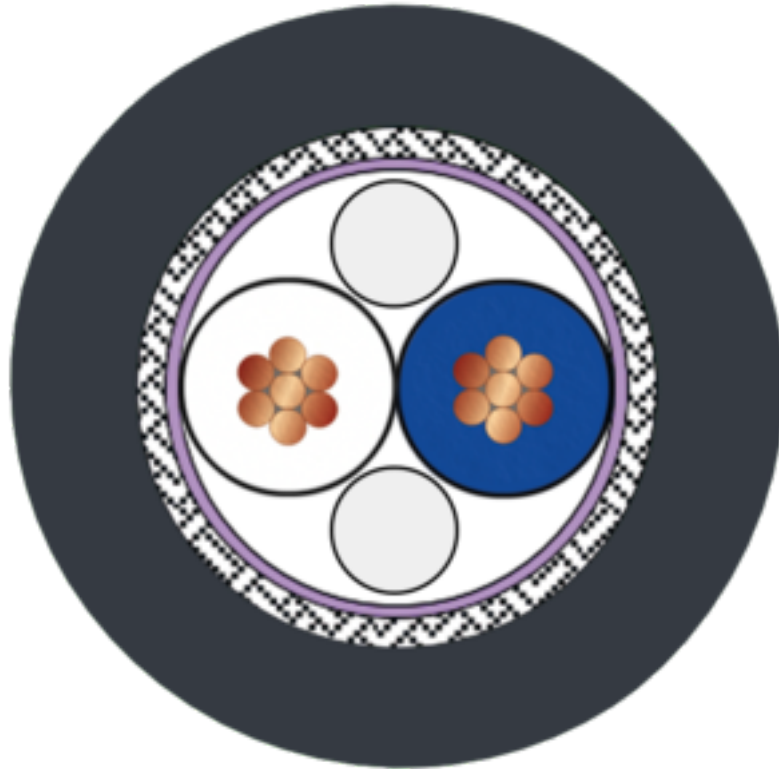
Dimensional drawing

35,1

Ø 10
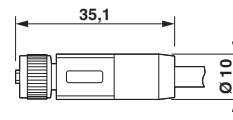
Socket M8 x 1, straight

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Cable cross section

Single Pair Ethernet PUR flexible, black [97B]

Classifications

eCl@ss

eCl@ss 10.0.1	27060308
eCl@ss 11.0	27060307
eCl@ss 9.0	27060308

ETIM

ETIM 7.0	EC001855