

SPE-T1-M8FSF/25,0-99B/M8FSF - Network cable



1652311

<https://www.phoenixcontact.com/in/products/1652311>

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Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, shielded (Advanced Shielding Technology), Socket straight M8-SPE / IP67, on Socket straight M8-SPE / IP67, cable length: 25 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

Commercial data

Item number	1652311
Packing unit	1 pc
Minimum order quantity	25 pc
Note	Made to order (non-returnable)
Product key	AF1BJI
GTIN	4067923185777
Weight per piece (including packing)	1,171.1 g
Weight per piece (excluding packing)	22.22 g
Country of origin	PL

Technical data

Product properties

Product type	Data cable preassembled
Application	Standard
Sensor type	Single Pair Ethernet
Number of positions	2
No. of cable outlets	1
Shielded	yes

Insulation characteristics

Overvoltage category	I
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Interfaces

Bus system	Ethernet
Signal type/category	Single Pair Ethernet CAT B (ISO/IEC 63171), 1 Gbps

Signaling

Status display	no
Status display present	No

Electrical properties

Nominal voltage U_N	72 V DC
Transmission medium	Copper

Material specifications

Flammability rating according to UL 94	V0
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Connector

Connection 1

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

Connection 2

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

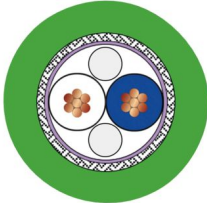
Cable/line

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Cable length	25 m
Single Pair Ethernet PUR flexible, green [99B]	
Dimensional drawing	
UL AWM Style	20233 (80°C/300 V)
Number of positions	2
Shielded	yes
Cable type	Single Pair Ethernet PUR flexible, green [99B]
Conductor structure	1 x 2 x AWG 22/7, S/FTP
AWG signal line	22
Conductor cross section	2x 0.34 mm ²
Wire diameter incl. insulation	1.6 mm
External cable diameter	5.50 mm ±0.1 mm
Outer sheath, material	PUR
External sheath, color	green
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	white, blue
Twisted pairs	2 cores to the pair
Overall twist	1 pair with fillers twisted horizontally
Optical shield covering	90 %
Insulation resistance	≥ 5 GΩ*km
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Cable capacity	48 nF/km
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	22 mm
Smallest bending radius, movable installation	44 mm
Flame resistance	according to IEC 60332-1-2 UL 1581, Sec. 1061 (Cable Flame) according to CSA FT1
Resistance to oil	in accordance with DIN EN 60811-404 -40 °C ... 80 °C (cable, fixed installation)

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Ambient temperature (operation)	-25 °C ... 80 °C (Cable, flexible installation)
	-25 °C ... 80 °C (for installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67

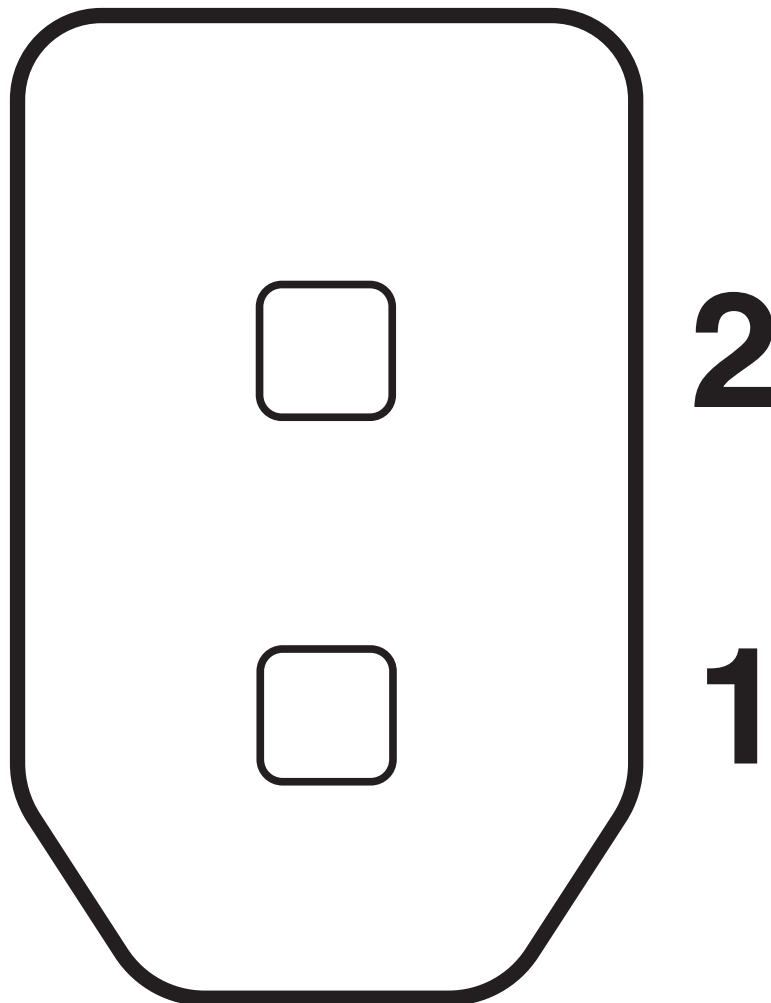
Standards and regulations

M8

Standard designation	M8 connector
Standards/specifications	IEC 63171-5
Note	T1-SPE

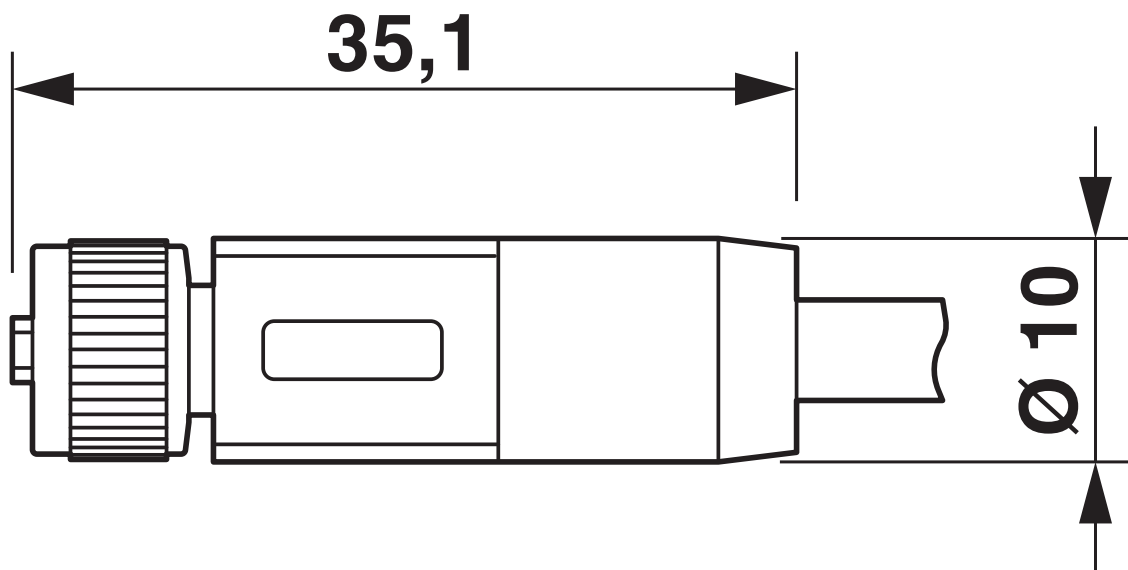
Drawings

Schematic diagram



Pin assignment, Single Pair Ethernet, 2 pos.

Dimensional drawing



M8FSF

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Classifications

ECLASS

ECLASS-11.0	27060307
ECLASS-13.0	27060307

ETIM

ETIM 9.0	EC001855
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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