

1217316

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Network cable, Single Pair Ethernet CAT B (1 Gbps), 2-position, PUR halogen-free, green, shielded (Advanced Shielding Technology), Plug straight M8-SPE / IP67, on Plug 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

Commercial data

Item number	1217316
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	AF1BJI
GTIN	4063151299699
Weight per piece (including packing)	116.4 g
Weight per piece (excluding packing)	116.4 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

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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
Interfaces	
Bus system	Ethernet
Bus system Signal type/category	Ethernet Single Pair Ethernet CAT B (ISO/IEC 63171), 1 Gbps
Signal type/category	
Signal type/category Signaling	Single Pair Ethernet CAT B (ISO/IEC 63171), 1 Gbps
Signal type/category Signaling Status display	Single Pair Ethernet CAT B (ISO/IEC 63171), 1 Gbps
Signal type/category Signaling Status display Status display present	Single Pair Ethernet CAT B (ISO/IEC 63171), 1 Gbps
Signal type/category Signaling Status display Status display present Electrical properties	Single Pair Ethernet CAT B (ISO/IEC 63171), 1 Gbps no No

Connection data

Flammability rating according to UL 94

Pin assignment

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

V0

Connector

Connection 1

Dimensional drawing	
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	Pin assignment, Single Pair Ethernet, 2 pos.
Туре	M8 Plug, straight, 2-position, shielded (Advanced Shielding Technology), Keying: SPE
Number of positions	2
Shielded	yes
Shielding	Advanced Shielding Technology
Signal type/category	Single Pair Ethernet CAT B (IEC 63171)
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 MΩ
Overvoltage category	II
Degree of pollution	3
Tightening torque	0.2 Nm
Material Contact	Cu
Material Contact surface	Ni/Au
Material Contact carrier	PP
Material Screw connection	Die-cast zinc, nickel-plated
Material Grip body	TPU, hardly inflammable, self-extinguishing
Material Seal	FKM
Flammability rating according to UL 94	V0
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 85 °C
Standard designation	M8 connector
Standards/regulations	IEC 63171-5

Connection 2

Dimensional drawing	2 1 Pin assignment, Single Pair Ethernet, 2 pos.
Туре	M8 Plug, straight, 2-position, shielded (Advanced Shielding Technology), Keying: SPE
Number of positions	2
Shielded	yes
Shielding	Advanced Shielding Technology
Signal type/category	Single Pair Ethernet CAT B (IEC 63171)
Insertion/withdrawal cycles	≥ 100
Insulation resistance	≥ 100 MΩ



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Overvoltage category	II II
Degree of pollution	3
Tightening torque	0.2 Nm
Material Contact	Cu
Material Contact surface	Ni/Au
Material Contact carrier	PP
Material Screw connection	Die-cast zinc, nickel-plated
Material Grip body	TPU, hardly inflammable, self-extinguishing
Material Seal	FKM
Flammability rating according to UL 94	VO
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C 85 °C
Standard designation	M8 connector
Standards/regulations	IEC 63171-5

Cable/line

Cable length	2 m
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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 mm² Wire diameter incl. insulation 1.6 mm
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 mm² Wire diameter incl. insulation 1.6 mm
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 mm² Wire diameter incl. insulation 1.6 mm
Conductor structure 1 x 2 x AWG 22/7, S/FTP AWG signal line 22 Conductor cross section 2x 0.34 mm² Wire diameter incl. insulation 1.6 mm
AWG signal line 22 Conductor cross section 2x 0.34 mm² Wire diameter incl. insulation 1.6 mm
Conductor cross section 2x 0.34 mm² Wire diameter incl. insulation 1.6 mm
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



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Optical shield covering	90 %
Insulation resistance	≥ 5 GΩ*km
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
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
Halogen-free	according to IEC 60754-1
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
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-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

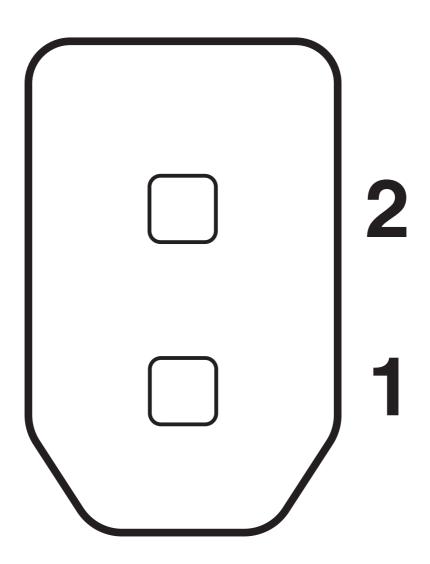


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Drawings





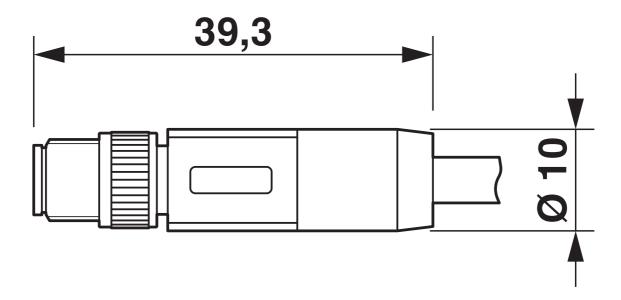
Pin assignment, Single Pair Ethernet, 2 pos.



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Dimensional drawing



M8MSM



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Classifications

ECLASS

	ECLASS-11.0	27060307	
	ECLASS-12.0	27060307	
	ECLASS-13.0	27060307	
ETIM			
	ETIM 9.0	EC001855	
UNSPSC			
	UNSPSC 21.0	26121600	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions	
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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