

2171103	DATA SHEET	
Valid from: 17.09.2018	IE-5-M12D-S-(L*)-P-2-26-7-OE	

Product description

Industrial Ethernet Patchcord, Cat.5e, straight plug M12 on free conductor end, D-coded, PUR, flexible



This datasheet is also valid for other lengths configurations. Other lengths configurations on request.

Product variations

Article number	Article description	Length (L*) [m]
2171103	IE-5-M12D-S-1-P-2-26-7-OE	1
2171104	IE-5-M12D-S-2-P-2-26-7-OE	2
2171105	IE-5-M12D-S-3-P-2-26-7-OE	3
2171106	IE-5-M12D-S-5-P-2-26-7-OE	5
2171107	IE-5-M12D-S-10-P-2-26-7-OE	10
2171108	IE-5-M12D-S-20-P-2-26-7-OE	20

General properties, Patchcord

Outer diameter, cable	5.6 mm
Number of cores	4
Outer sheath	PUR, halogen free compound
Outer sheath, color	blue similar to RAL 502 1
Mating cycles, M12 connector	100
Screening	SF/UTP

General properties, cable

LAPP-Article number of cable	2170284
LAPP-Description of cable	ETHERLINE P FLEX Cat. 5e 2x2x26/7 AWG
Conductor, cross-section	ca. 0.14 mm ²
Conductor, material	bare copper, fine wire stranded
Insulation, outer diameter	ca. 0.95 mm
Insulation, material	Foam-Skin Polyolefin
Core identification code	pair 1: white-orange, orange; pair 2: white-green, green
Stranding	cores twisted to pairs, pairs stranded together
Wrapping	1 layer non-woven tape
Screening	plastic laminated aluminum foil
	on top: braid of tinned copper wire, coverage ca. 85%

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Electrical properties, cable at 20°C

Resistance (loop)	$\leq 284 \Omega/\text{km}$
Insulation material, specific electrical resistance	$\geq 5 \text{ G}\Omega \cdot \text{km}$
Characteristic impedance (1 MHz to 100 MHz)	$100 \Omega \pm 15 \Omega$
Operating peak voltage	125 V (not for power purposes)
Signal propagation time	$< 4.33 \text{ ns/m}$
Test voltage (rms 50 Hz, 1 min.), core-core	1000 V
Test voltage (rms 50 Hz, 1 min.), core-screening	500 V

Mechanical and thermal properties, cable

Minimum bending radius, during laying	15 x cable diameter
Minimum bending radius, fixed installation	8 x cable diameter
Permissible temperature range, during laying (VDE)	-5 °C to +50 °C
Permissible temperature range, fixed installation (VDE)	-30 °C to +80 °C
Permissible temperature range, during laying (UL)	-5 °C to +80 °C
Permissible temperature range, fixed installation (UL)	-30 °C to +80 °C
Flame propagation	flame retardant acc. to IEC 60332-1-2
Halogen free	halogen free acc. to VDE 0472-815
General requirements	Dangerous and forbidden substance acc. to RoHS directive (2011/65/EU) are not allowed to the manufacturing

General properties, M12 connector

Coding	D
Protection degree	IP67/IP69 locked connector
Rated voltage max.	250 V
Rated current at 40 °C	4 A
Ambient temperature	-30 °C to +90 °C
Insulation resistance	$\geq 10^8 \Omega$
Locking nut with vibration protection	Yes
Tightening torque	1.0 Nm

Materials, M12 connector

Contacts, base material	CuZn
Contacts, surface	Au
Grip body	TPU
Locking nut, base material	CuZn
Locking nut, surface	Ni

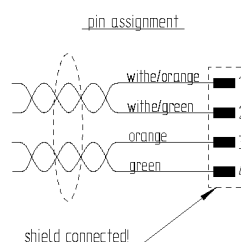
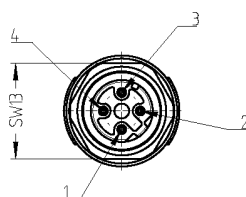
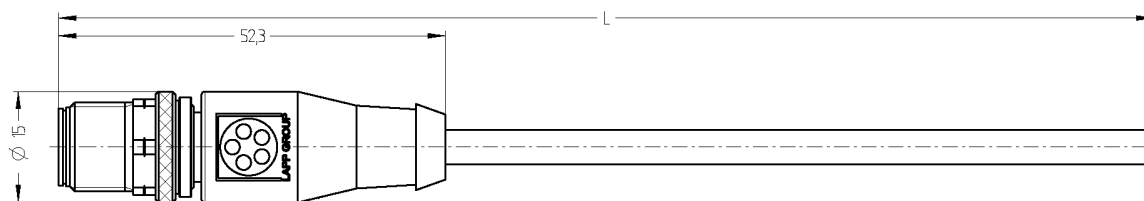
Standards

Product standard, M12 connector	DIN EN 61076-2-101
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Drawings



Application range

Automation, industrial machinery and plant engineering

Note

Photographs are not true to scale and do not represent detailed images of the respective products.

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