

2171736	DATA SHEET	
Valid from: 17.09.2018	IE-EC-5-M12DF-S-L(*)-P-2-26-FD-M12D-S	

Product description

Industrial Ethernet Patchcord, EtherCat, Cat.5e, straight socket M12 on straight plug M12, D-coded, PUR, for drag chain



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

Product variations

Article number	Article description	Length (L*) [m]
2171736	IE-EC-5-M12DF-S-0,5-P-2-26-FD-M12D-S	0.5
2171737	IE-EC-5-M12DF-S-1-P-2-26-FD-M12D-S	1
2171738	IE-EC-5-M12DF-S-2-P-2-26-FD-M12D-S	2
2171739	IE-EC-5-M12DF-S-3-P-2-26-FD-M12D-S	3
2171922	IE-EC-5-M12DF-S-3,5-P-2-26-FD-M12D-S	3.5
2171740	IE-EC-5-M12DF-S-5-P-2-26-FD-M12D-S	5
2171741	IE-EC-5-M12DF-S-10-P-2-26-FD-M12D-S	10
2171742	IE-EC-5-M12DF-S-20-P-2-26-FD-M12D-S	20

General properties, Patchcord

Outer diameter, cable	4.8 mm
Number of cores	4
Outer sheath	PUR
Outer sheath, color	green similar to RAL 6018
Mating cycles, M12 connector	100
Screening	SF/UTP

General properties, cable

LAPP-Article number of cable	2170433
LAPP-Description of cable	ETHERLINE P EC FD Cat.5e
Conductor, outer diameter	ca. 0.15 mm
Conductor, material	tinned stranded copper
Insulation, outer diameter	ca. 1.00 mm
Insulation, material	Polyolefin
Core identification code	pair 1: white-orange, orange; pair 2: white-green, green
Stranding	star quad
Wrapping	PET tape
Screening	plastic laminated aluminum foil on top: braid of copper wire, coverage ca. 85%

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Electrical properties, cable at 20°C

Resistance (loop)	$\leq 142 \Omega/\text{km}$
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)
Test voltage (rms 50 Hz, 1 min.), core-core	1500 V
Test voltage (rms 50 Hz, 1 min.), core-screening	1500 V

Mechanical and thermal properties, cable

Minimum bending radius, during laying	16 x cable diameter
Minimum bending radius, fixed installation	4 x cable diameter
Permissible temperature range, during laying	-30 °C to +50 °C
Permissible temperature range, fixed installation	-40 °C to +80 °C
Flame propagation	flame retardant acc. UL 1581 (FT1)
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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