

2171785	DATA SHEET	
Valid from: 17.09.2018	IE-EC-5-M12D-A(L*)-P-2-26-FD-M12D-S	

Product description

Industrial Ethernet Patchcord, EtherCat, Cat.5e, angled plug 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]
2171785	IE-EC-5-M12D-A-0,5-P-2-26-FD-M12D-S	0,5
2171786	IE-EC-5-M12D-A-1-P-2-26-FD-M12D-S	1
2171787	IE-EC-5-M12D-A-2-P-2-26-FD-M12D-S	2
2171788	IE-EC-5-M12D-A-3-P-2-26-FD-M12D-S	3
2171789	IE-EC-5-M12D-A-5-P-2-26-FD-M12D-S	5
2171790	IE-EC-5-M12D-A-10-P-2-26-FD-M12D-S	10
2171791	IE-EC-5-M12D-A-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
	plastic laminated aluminum foil
Screening	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 bis +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

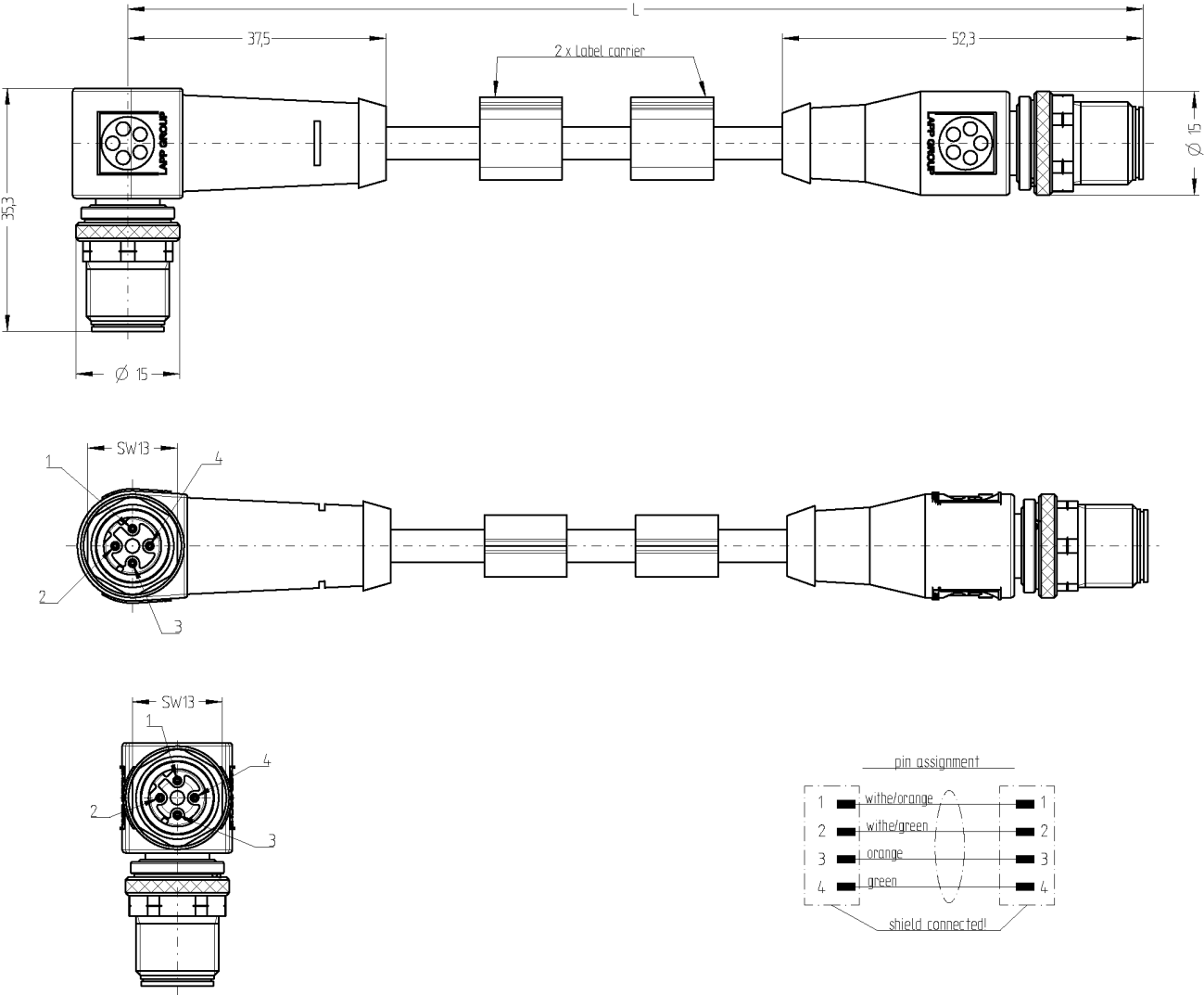
Standards

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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