

Valid from: 17.09.2018

IE-PNB-5-M12D-A-(L*)-Y-2-22-7-OE

Product description

Industrial Ethernet Patchcord, Profinet Type B, Cat.5, angled plug M12 on open conductor end , D-coded, PVC, flexible

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

Product variations

Article number	Article description	Length (L*) [m]
2171043	IE-PNB-5-M12D-A-1-Y-2-22-7-OE	1
2171044	IE-PNB-5-M12D-A-2-Y-2-22-7-OE	2
2171045	IE-PNB-5-M12D-A-3-Y-2-22-7-OE	3
2171046	IE-PNB-5-M12D-A-5-Y-2-22-7-OE	5
2171047	IE-PNB-5-M12D-A-10-Y-2-22-7-OE	10
2171048	IE-PNB-5-M12D-A-20-Y-2-22-7-OE	20

General properties, Patchcord

Outer diameter, cable6.5 mmNumber of cores4Outer sheathPVCOuter sheath, colorgreen similar to RAL 6018Mating cycles, M12 connector100ScreeningSF/UTP

General properties, cable

LAPP-Article number of cable	2170886
LAPP-Description of cable	ETHERLINE PN Cat. 5 Y FLEX FC
Conductor, outer diameter	ca. 0.75 mm
Conductor, material	braid of copper wire, tinned wire
Insulation, outer diameter	ca. 1.5 mm
Insulation, material	PE
Core identification code	acc. to IEC 708-1: white, yellow, blue, orange
Stranding	star quad (optional with central filler)
Wrapping	plastic tape (overlapping)
	plastic laminated aluminum foil (overlapping)
Screening	on top: braid of copper wire
	tinned wire, coverage ca. 85%

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Electrical properties, cable at 20°C

Resistance (loop)	≤ 120 Ω/km
Insulation material, specific electrical resistance	≥ 500 MΩ*km
Characteristic impedance (1 MHz to 100 MHz)	100 Ω ± 15 Ω
UL-Rating	600 V
Signal propagation time	< 5.3 ns/m
Test voltage (rms 50 Hz, 1 min.), core-core	2000 V
Test voltage (rms 50 Hz, 1 min.), core-screening	2000 V

Mechanical and thermal properties, cable

Minimum bending radius, during laying	15 x cable diameter
Minimum bending radius, fixed installation	10 x cable diameter
Permissible temperature range, during laying	-20 °C to +60 °C
Permissible temperature range, fixed installation	-40 °C to +80 °C
Sunlight resistance	sunlight resistant acc. to UL 1581 Sec. 1200
Oil resistance	oil resistant acc. to UL 1581 Sec. 480 (60°C)
Flame propagation	flame retardant acc. to UL 1685 (CSA FT 4)
	Dangerous and forbidden substance acc. to RoHS
General requirements	directive (2002/95/EG) 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		
Contacts, surface		
Grip body		
Locking nut, base material		

Standards

Product standard, M12 connector

Approvals

UL-listed, E-File

E249137

DIN EN 61076-2-101

CuZn Au TPU CuZn

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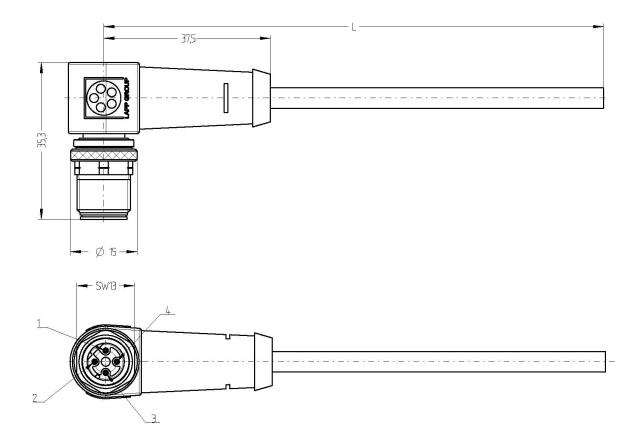
DATA SHEET

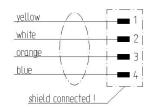
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Drawings





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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