

2171007	<b>DATA SHEET</b>	
Valid from: 17.09.2018	<b>IE-PNA-5-M12D-S-(L*)-Y-2-22-1-OE</b>	

## Product description

Industrial Ethernet Patchcord, Profinet Type A, Cat.5, straight plug M12 on open conductor end, D-coded, PVC



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

## Product variations

Article number	Article description	Length (L*) [m]
2171007	IE-PNA-5-M12D-S-1-Y-2-22-1-OE	1
2171008	IE-PNA-5-M12D-S-2-Y-2-22-1-OE	2
2171009	IE-PNA-5-M12D-S-3-Y-2-22-1-OE	3
2171010	IE-PNA-5-M12D-S-5-Y-2-22-1-OE	5
2171011	IE-PNA-5-M12D-S-10-Y-2-22-1-OE	10
2171012	IE-PNA-5-M12D-S-20-Y-2-22-1-OE	20

## General properties, Patchcord

Outer diameter, cable	6.5 mm
Number of cores	4
Outer sheath	PVC
Outer sheath, color	green similar to RAL 6018
Mating cycles, M12 connector	100
Screening	SF/UTP

## General properties, cable

LAPP-Article number of cable	2170893
LAPP-Description of cable	ETHERLINE Y FC Cat.5
Conductor, outer diameter	ca. 0.64 mm
Conductor, material	bare copper-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%

Creator: MANA2/PDP Released: IVSE1/PDP	Document: DB2171007EN Version: 04	Page 1 of 3
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### Electrical properties, cable at 20°C

Resistance (loop)	≤ 115 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
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	≥ 10 <sup>8</sup> Ω
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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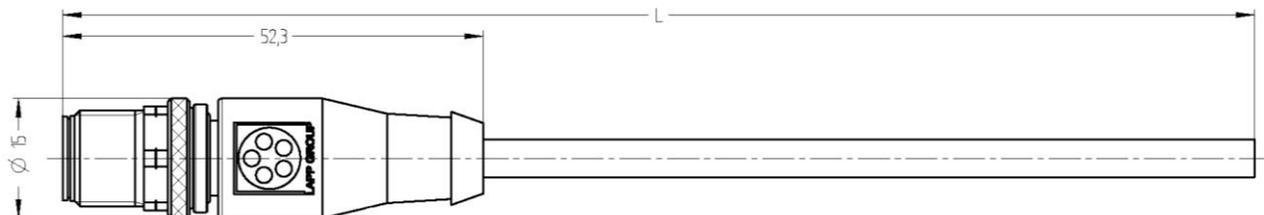
### Approvals

UL-listed, E-File	E249137
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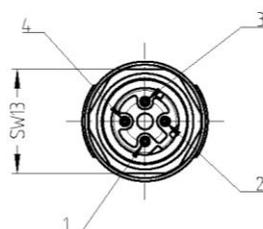
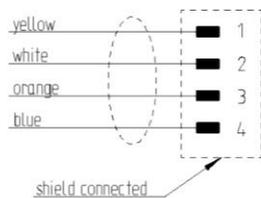
Creator: MANA2/PDP Released: IVSE1/PDP	Document: DB2171007EN Version: 04	Page 2 of 3
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2171007	<b>DATA SHEET</b>	
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## Drawings



### Contact Configuration



## 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.

Creator: MANA2/PDP Released: IVSE1/PDP	Document: DB2171007EN Version: 04	Page 3 of 3
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