DATA SHEET

Valid from: 17.09.2018

IE-PNA-5-M12D-A-(L*)-Y-2-22-1-RJ45



Product description

Industrial Ethernet Patchcord, Profinet Type A, Cat.5, angled plug M12 (D-coded) on straight plug RJ45, PVC

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

Product variations

Article number	Article description	Length (L*) [m]
2171172	IE-PNA-5-M12D-A-1-Y-2-22-1-RJ45	1
2171173	IE-PNA-5-M12D-A-2-Y-2-22-1-RJ45	2
2171174	IE-PNA-5-M12D-A-3-Y-2-22-1-RJ45	3
2171175	IE-PNA-5-M12D-A-5-Y-2-22-1-RJ45	5
2171176	IE-PNA-5-M12D-A-10-Y-2-22-1-RJ45	10
2171177	IE-PNA-5-M12D-A-20-Y-2-22-1-RJ45	20

General properties, Patchcord

Outer diameter, cable Number of cores Outer sheath Outer sheath, color Mating cycles, M12 connector Mating cycles, RJ45 connector Screening	6.5 mm 4 PVC green similar to RAL 6018 100 750 SF/UTP
General properties, cable	
APP-Article number of cable	2170893
	2
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

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tinned wire, coverage ca. 85%



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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	$\geq 10^8 \Omega$
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

General properties, RJ45 connector

Protection degree	IP20
Rated voltage max.	50 V
Rated current at 40 °C	1 A
Ambient temperature	-40 °C to +70 °C
Insulation resistance	$\geq 10^8 \Omega$

Materials, RJ45 connector

Contacts, base material	CuZn
Contacts, surface	Au
Grip body	TPU

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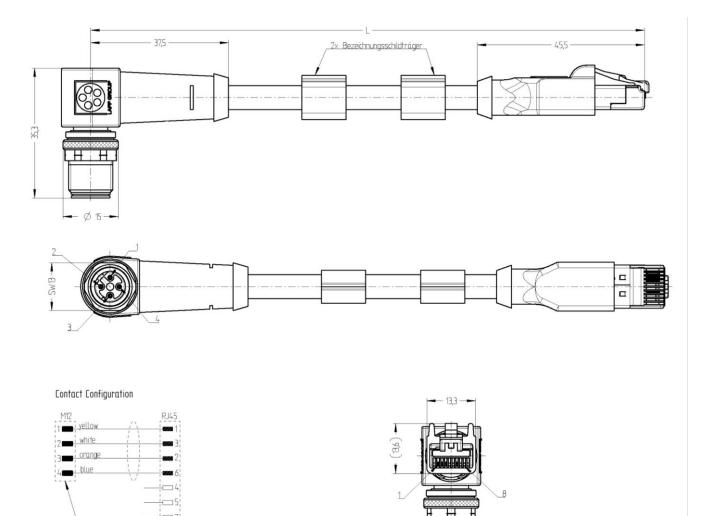


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Standards

Product standard, M12 connector Product standard, RJ45 connector DIN EN 61076-2-101 DIN EN 60603-7-51

Drawings



Application range

Automation, industrial machinery and plant engineering

-8

shield connected

Note

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

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