DATA SHEET



Valid from: 17.09.2018

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

Product description

Industrial Ethernet Patchcord, Profinet Type A, Cat.5, angled 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]
2171019	IE-PNA-5-M12D-A-1-Y-2-22-1-OE	1
2171020	IE-PNA-5-M12D-A-2-Y-2-22-1-OE	2
2171021	IE-PNA-5-M12D-A-3-Y-2-22-1-OE	3
2171022	IE-PNA-5-M12D-A-5-Y-2-22-1-OE	5
2171023	IE-PNA-5-M12D-A-10-Y-2-22-1-OE	10
2171024	IE-PNA-5-M12D-A-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		
APP-Article number of cable	2170893	

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	Document: DB2171019EN	
Released: IVSE1/PDP	Version: 04	Page 1 of 3
We reserve all rights according to DIN ISO 16016		



Valid from: 17.09.2018

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)	$100 \ \Omega \pm 15 \ \Omega$
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 Contacts, surface	CuZn Au
Grip body	TPU
Locking nut, base material	CuZn
Locking nut, surface	Ni
Standards	
Product standard, M12 connector	DIN EN 61076-2-101

Approvals

UL-listed, E-File

E249137

Creator: MANA2/PDP	Document: DB2171019EN	Page 2 of 3
Released: IVSE1/PDP	Version: 04	Page 2 01 3
We reserve all rights according to DIN ISO 16016.		

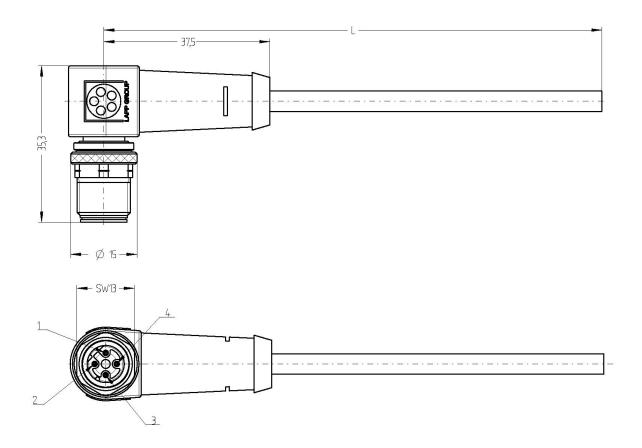
DATA SHEET

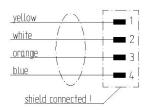


Valid from: 17.09.2018

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

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.

Creator: MANA2/PDP	Document: DB2171019EN	Pogo 2 of 2
Released: IVSE1/PDP	Version: 04	Page 3 of 3
We reserve all rights according to DI	IN ISO 16016.	