

2171179	DATA SHEET	
Valid from: 17.09.2018	IE-PNA-5-RJ45-(L*)-Y-2-22-1-RJ45	

Product description

Industrial Ethernet Patchcord, Profinet Type A, Cat.5,
straight plug RJ45 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]
2171179	IE-PNA-5-RJ45-1-Y-2-22-1-RJ45	1
2171180	IE-PNA-5-RJ45-2-Y-2-22-1-RJ45	2
2171181	IE-PNA-5-RJ45-3-Y-2-22-1-RJ45	3
2171182	IE-PNA-5-RJ45-5-Y-2-22-1-RJ45	5
2171183	IE-PNA-5-RJ45-10-Y-2-22-1-RJ45	10
2171184	IE-PNA-5-RJ45-20-Y-2-22-1-RJ45	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

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)
Screening	plastic laminated aluminum foil (overlapping) on top: braid of copper wire tinned wire, coverage ca. 85%

Creator: MANA2/PDP Released: IVSE1/PDP	Document: DB2171179EN Version: 03	Page 1 of 3
---	--------------------------------------	-------------

2171179	DATA SHEET	
Valid from: 17.09.2018	IE-PNA-5-RJ45-(L*)-Y-2-22-1-RJ45	

Electrical properties, cable at 20°C

Resistance (loop)	$\leq 115 \Omega/\text{km}$
Insulation material, specific electrical resistance	$\geq 500 \text{ M}\Omega \cdot \text{km}$
Characteristic impedance (1 MHz to 100 MHz)	$100 \Omega \pm 15 \Omega$
UL-Rating	600 V
Signal propagation time	$< 5.3 \text{ ns/m}$
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)
General requirements	Dangerous and forbidden substance acc. to RoHS directive (2002/95/EG) are not allowed to the manufacturing

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

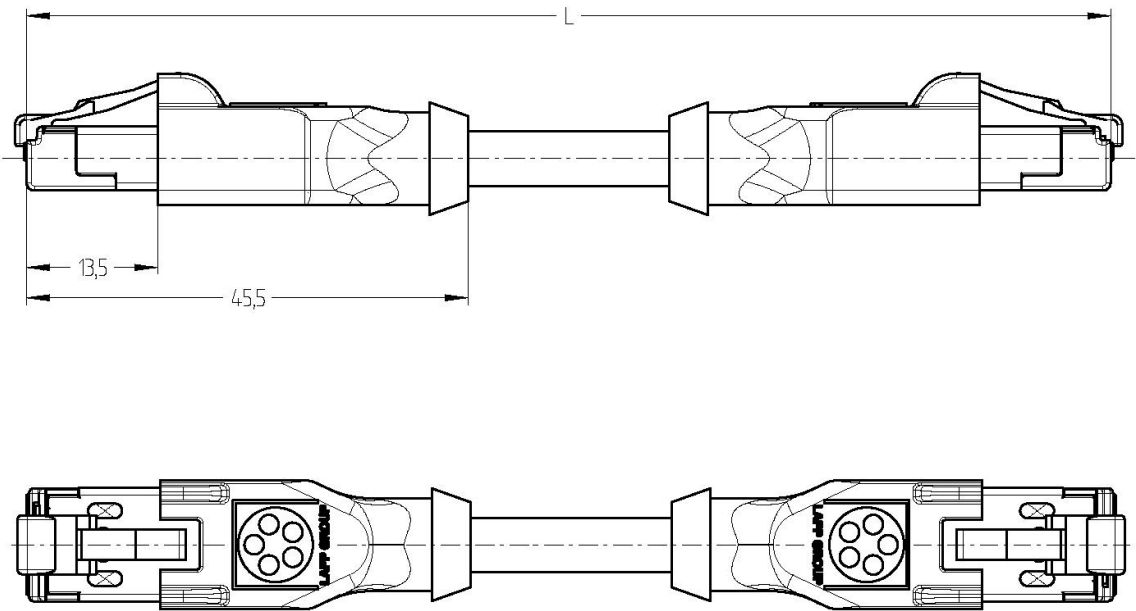
Standards

Product standard, RJ45 connector	DIN EN 60603-7-5 1
----------------------------------	--------------------

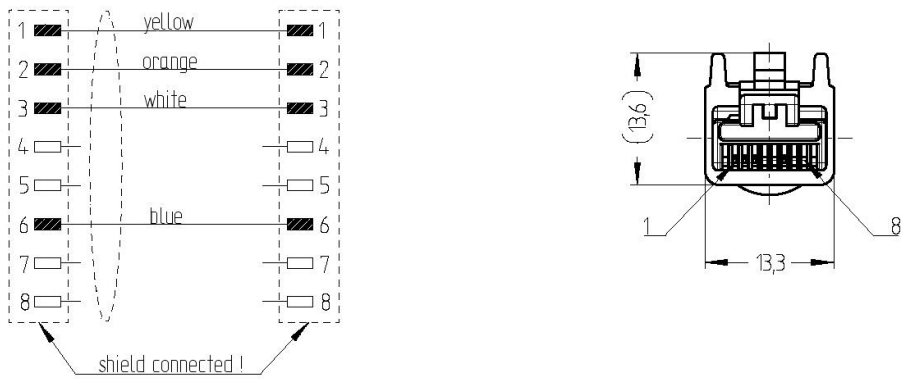
Creator: MANA2/PDP Released: IVSE1/PDP	Document: DB2171179EN Version: 03	Page 2 of 3
---	--------------------------------------	-------------

2171179	DATA SHEET	
Valid from: 17.09.2018	IE-PNA-5-RJ45-(L*)-Y-2-22-1-RJ45	

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: DB2171179EN Version: 03	Page 3 of 3
---	--------------------------------------	-------------