

2171286	DATA SHEET	
Valid from: 17.09.2018	IE-PNC-5-RJ45-(L*)-P-2-22-FD-OE	

Product description

Industrial Ethernet Patchcord, Profinet Type C, Cat.5, straight plug RJ45 on free conductor end, PUR, for drag chain



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

Product variations

Article number	Article description	Length (L*) [m]
2171286	IE-PNC-5-RJ45-1-P-2-22-FD-OE	1
2171287	IE-PNC-5-RJ45-2-P-2-22-FD-OE	2
2171288	IE-PNC-5-RJ45-3-P-2-22-FD-OE	3
2171289	IE-PNC-5-RJ45-5-P-2-22-FD-OE	5
2171290	IE-PNC-5-RJ45-10-P-2-22-FD-OE	10
2171291	IE-PNC-5-RJ45-20-P-2-22-FD-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

General properties, cable

LAPP-Article number of cable	2170894
LAPP-Description of cable	ETHERLINE FD P FC Cat. 5
Conductor, outer diameter	ca. 0.75 mm
Conductor, material	tinned copper, fine-wire stranded
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
Wrapping	plastic tape
Screening	plastic laminated aluminum foil on top: braid of copper wire tinned wire, coverage ca. 85%

Creator: MANA2/PDP Released: IVSE1/PDP	Document: DB2171286EN Version: 02	Page 1 of 3
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Electrical properties, cable at 20°C

Resistance (loop)	$\leq 120 \Omega/\text{km}$
Insulation material, specific electrical resistance	$\geq 0.5 \text{ G}\Omega \cdot \text{km}$
Characteristic impedance (1 MHz to 100 MHz)	$100 \Omega \pm 15 \Omega$
Signal propagation time	$< 5.34 \text{ ns/m}$
Test voltage (rms 50 Hz, 1 min.), core-core	700 V
Test voltage (rms 50 Hz, 1 min.), core-screening	700 V

Mechanical and thermal properties, cable

Minimum bending radius, during laying	8 x cable diameter
Minimum bending radius, fixed installation	8 x cable diameter
Permissible temperature range, during laying	-20 °C to +60 °C
Permissible temperature range, fixed installation	-30 °C to +70 °C
Flame propagation	flame retardant acc. to UL 1581 (VW-1)
Halogen free	halogen free acc. to VDE 0472-815
General requirements	Dangerous and forbidden substance acc. to RoHS directive (2011/65/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	-20 °C to +75 °C
Insulation resistance	$\geq 10^8 \Omega$

Materials, RJ45 connector

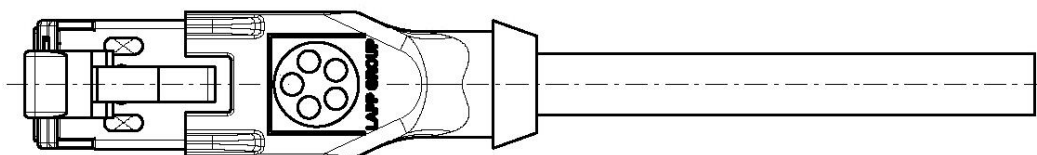
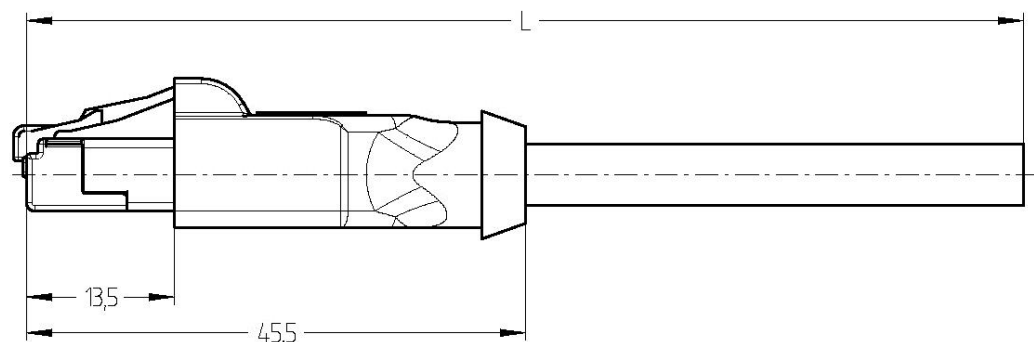
Contacts, base material	CuZn
Contacts, surface	Au
Grip body	TPU

Standards

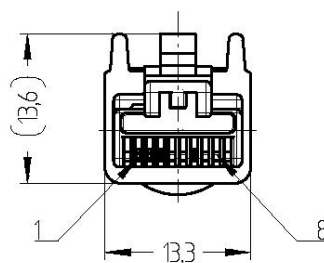
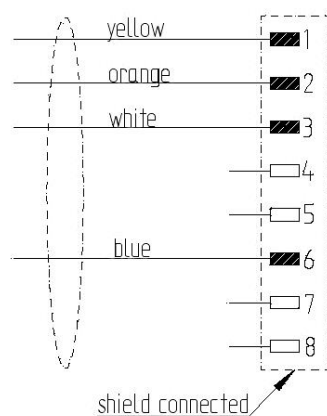
Product standard, RJ45 connector	DIN EN 60603-7-51
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Drawings



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: DB2171286EN Version: 02	Page 3 of 3
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