


2171279	<b>DATA SHEET</b>	
Valid from: 22.12.2022	<b>IE-PNC-5-RJ45-(L*)-P-2-22-FD-RJ45</b>	

## Product description

Industrial Ethernet Patchcord, Profinet Type C, Cat.5, straight plug RJ45 on straight plug RJ45, 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]
2171278	IE-PNC-5-RJ45-0,5-P-2-22-FD-RJ45	0.5
2171279	IE-PNC-5-RJ45-1-P-2-22-FD-RJ45	1
2171280	IE-PNC-5-RJ45-2-P-2-22-FD-RJ45	2
2171281	IE-PNC-5-RJ45-3-P-2-22-FD-RJ45	3
2171282	IE-PNC-5-RJ45-5-P-2-22-FD-RJ45	5
2171283	IE-PNC-5-RJ45-10-P-2-22-FD-RJ45	10
2171284	IE-PNC-5-RJ45-20-P-2-22-FD-RJ45	20


## General properties, Patchcord

Outer diameter, cable	6.5 mm
Number of cores	4
Outer sheath	PUR
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: THLE3/PDP Released: IVSE1/PDP	Document: DB2171279EN Version: 04	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	-40 °C to +70 °C
Insulation resistance	$\geq 10^8 \Omega$


### Materials, RJ45 connector

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

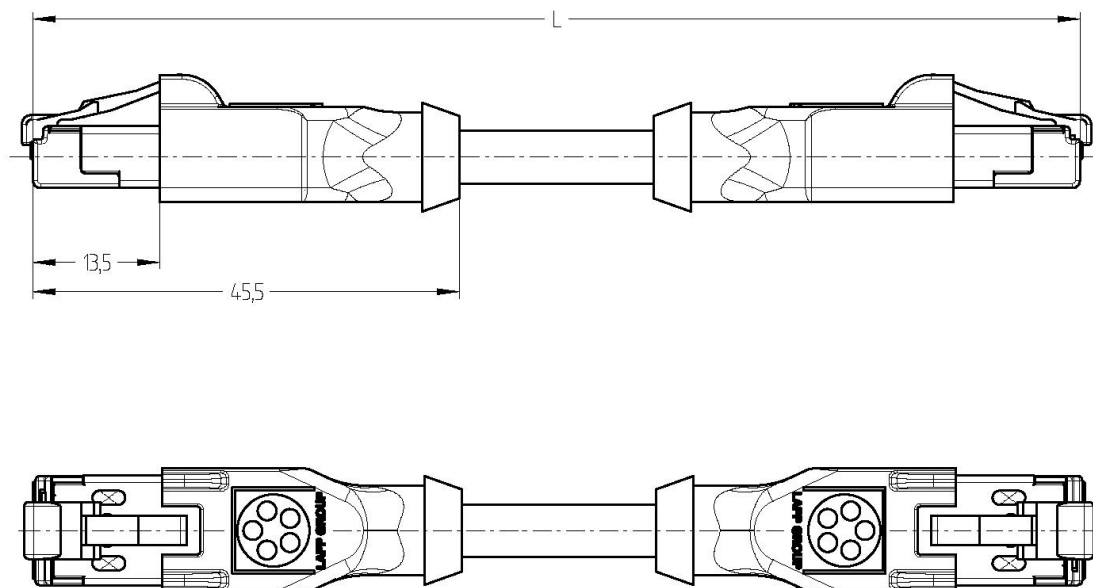
### Standards

Product standard, RJ45 connector	DIN EN 60603-7-51
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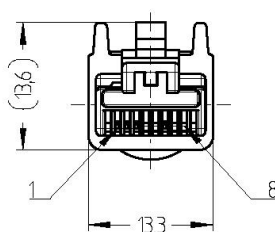
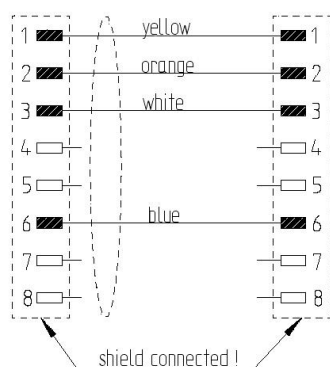
Creator: THLE3/PDP Released: IVSE1/PDP	Document: DB2171279EN Version: 04	Page 2 of 3
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2171279	<b>DATA SHEET</b>	
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## Drawings



## 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: THLE3/PDP Released: IVSE1/PDP	Document: DB2171279EN Version: 04	Page 3 of 3
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