

2171771	DATA SHEET	
Valid from: 17.09.2018	IE-EC-5-RJ45-(L*)-P-2-26-FD-OE	

Product description

Industrial Ethernet Patchcord, EtherCat, Cat.5e, 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]
2171771	IE-EC-5-RJ45-0,5-P-2-26-FD-OE	0,5
2171772	IE-EC-5-RJ45-1-P-2-26-FD-OE	1
2171773	IE-EC-5-RJ45-2-P-2-26-FD-OE	2
2171774	IE-EC-5-RJ45-3-P-2-26-FD-OE	3
2171775	IE-EC-5-RJ45-5-P-2-26-FD-OE	5
2171776	IE-EC-5-RJ45-10-P-2-26-FD-OE	10
2171777	IE-EC-5-RJ45-20-P-2-26-FD-OE	20

General properties, Patchcord

Outer diameter, cable	4.8 mm
Number of cores	4
Outer sheath	PUR
Outer sheath, color	green similar to RAL 6018

General properties, cable

LAPP-Article number of cable	2170433
LAPP-Description of cable	ETHERLINE P EC FD Cat.5e
Conductor, material	tinned stranded copper
Insulation, outer diameter	ca. 1.00 mm
Insulation, material	Polyolefin
Core identification code	pair 1: white-orange, orange; pair 2: white-green, green
Stranding	star quad
Wrapping	PET tape
Screening	plastic laminated aluminum foil on top: braid of copper wire, coverage ca. 85%

Creator: MANA2/PDP Released: IVSE1/PDP	Document: DB2171771EN Version: 03	Page 1 of 3
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Electrical properties, cable at 20°C

Resistance (loop)	$\leq 142 \Omega/\text{km}$
Insulation material, specific electrical resistance	$\geq 5 \text{ G}\Omega \cdot \text{km}$
Characteristic impedance (1 MHz to 100 MHz)	$100 \Omega \pm 15 \Omega$
Operating peak voltage	125 V (not for power purposes)
Test voltage (rms 50 Hz, 1 min.), core-core	1500 V
Test voltage (rms 50 Hz, 1 min.), core-screening	1500 V

Mechanical and thermal properties, cable

Minimum bending radius, during laying	16 x cable diameter
Minimum bending radius, fixed installation	4 x cable diameter
Permissible temperature range, during laying	-30 °C to +50 °C
Permissible temperature range, fixed installation	-40 °C to +80 °C
Flame propagation	flame retardant acc. UL 1581 (FT1)
Halogen free	halogen free acc. to VDE 0472-815
General requirements	Dangerous and forbidden substance acc. to RoHS directive (2011/65/EU) 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	$\geq 10^8 \Omega$

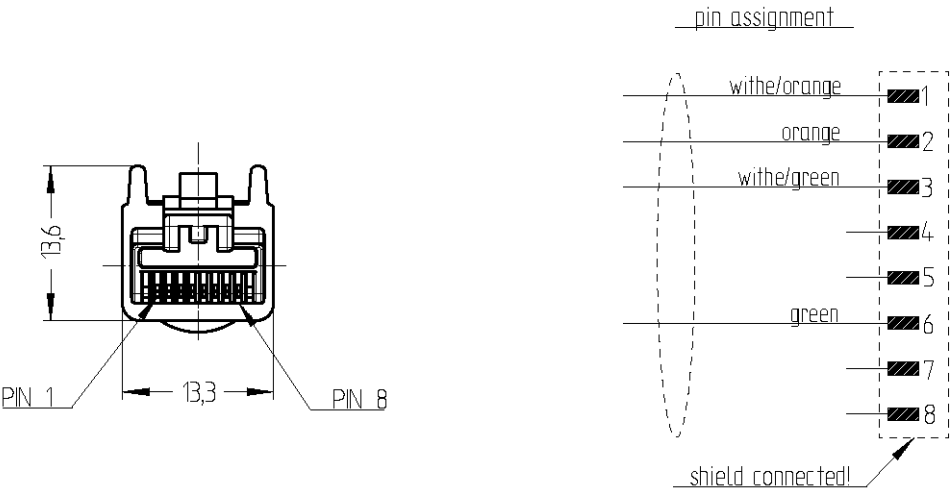
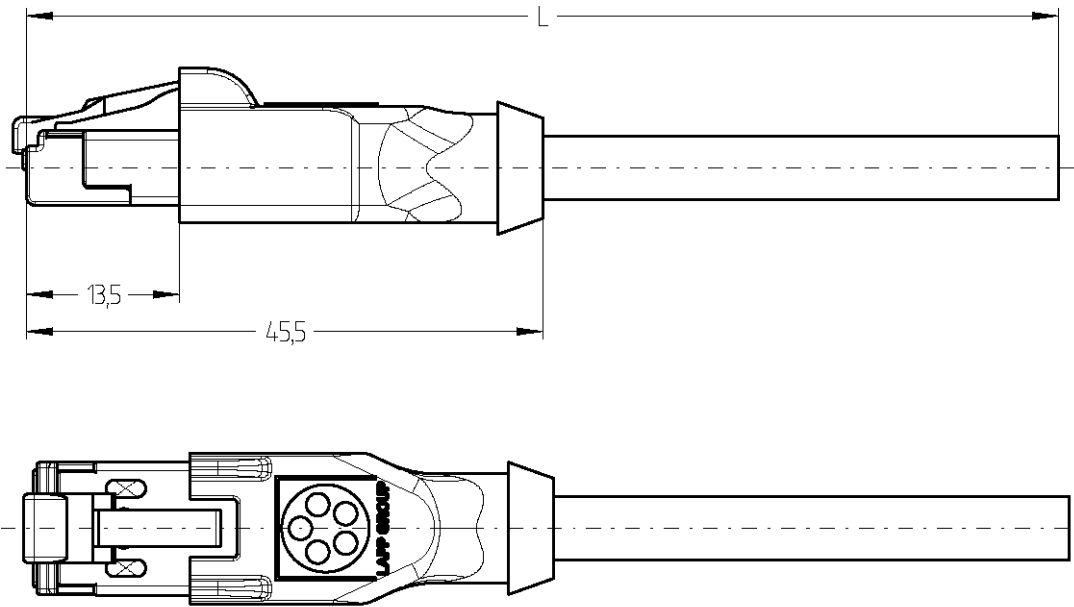
Standards

Product standard, RJ45 connector	DIN EN 60603-7-51
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Creator: MANA2/PDP Released: IVSE1/PDP	Document: DB2171771EN Version: 03	Page 2 of 3
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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 Released: IVSE1/PDP	Document: DB2171771EN Version: 03	Page 3 of 3
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