

2171501	DATA SHEET	
Valid from: 18.09.2018	IE-5-RJ45-(L*)-P-4-26-7-RJ45	

Product description

Industrial Ethernet Patchcord, Cat.5e, straight plug RJ45
on straight plug RJ45, PUR, flexible, 4-pair



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

Product variations

Article number	Article description	Length (L*) [m]
2171501	IE-5-RJ45-1-P-4-26-7-RJ45	1
2171502	IE-5-RJ45-2-P-4-26-7-RJ45	2
2171503	IE-5-RJ45-3-P-4-26-7-RJ45	3
2171504	IE-5-RJ45-5-P-4-26-7-RJ45	5
2171505	IE-5-RJ45-10-P-4-26-7-RJ45	10
2171506	IE-5-RJ45-20-P-4-26-7-RJ45	20

General properties, Patchcord

Outer diameter, cable	6.1 mm
Number of cores	8
Outer sheath	PUR, halogen free compound
Outer sheath, color	blue similar to RAL 5021

General properties, cable

LAPP-Article number of cable	2170300
LAPP-Description of cable	ETHERLINE P FLEX Cat. 5e 4x2x26/7 AWG
Conductor, cross-section	ca. 0.14 mm ²
Conductor, material	bare copper, fine-wire stranded
Insulation, outer diameter	ca. 0.95 mm
Insulation, material	Foam-Skin PE
Core identification code	pair 1: white-orange, orange; pair 2: white-green, green pair 3: white-blue, blue; pair 4: white-brown, brown
Stranding	cores twisted to pairs, pairs stranded together
Wrapping	1 layer non-woven tape
Screening	plastic laminated aluminum foil on top: braid of tinned copper wire, coverage ca. 85%

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Electrical properties, cable at 20°C

Resistance (loop)	$\leq 284 \Omega/\text{km}$
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)
Signal propagation time	$< 4.45 \text{ ns/m}$
Test voltage (rms 50 Hz, 1 min.), core-core	1000 V
Test voltage (rms 50 Hz, 1 min.), core-screening	500 V

Mechanical and thermal properties, cable

Minimum bending radius, during laying	15 x cable diameter
Minimum bending radius, fixed installation	8 x cable diameter
Permissible temperature range, during laying (VDE)	-5 °C to + 50 °C
Permissible temperature range, fixed installation (UL)	-40 °C to +80 °C
Permissible temperature range, during laying (VDE)	-5 °C to + 80 °C
Permissible temperature range, fixed installation (UL)	-40 °C to + 80 °C
Flame retardant	flame retardant acc. to 60332-1-2
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	-20 °C to +75 °C
Insulation resistance	$\geq 10^8 \Omega$

Materials RJ45, connector

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

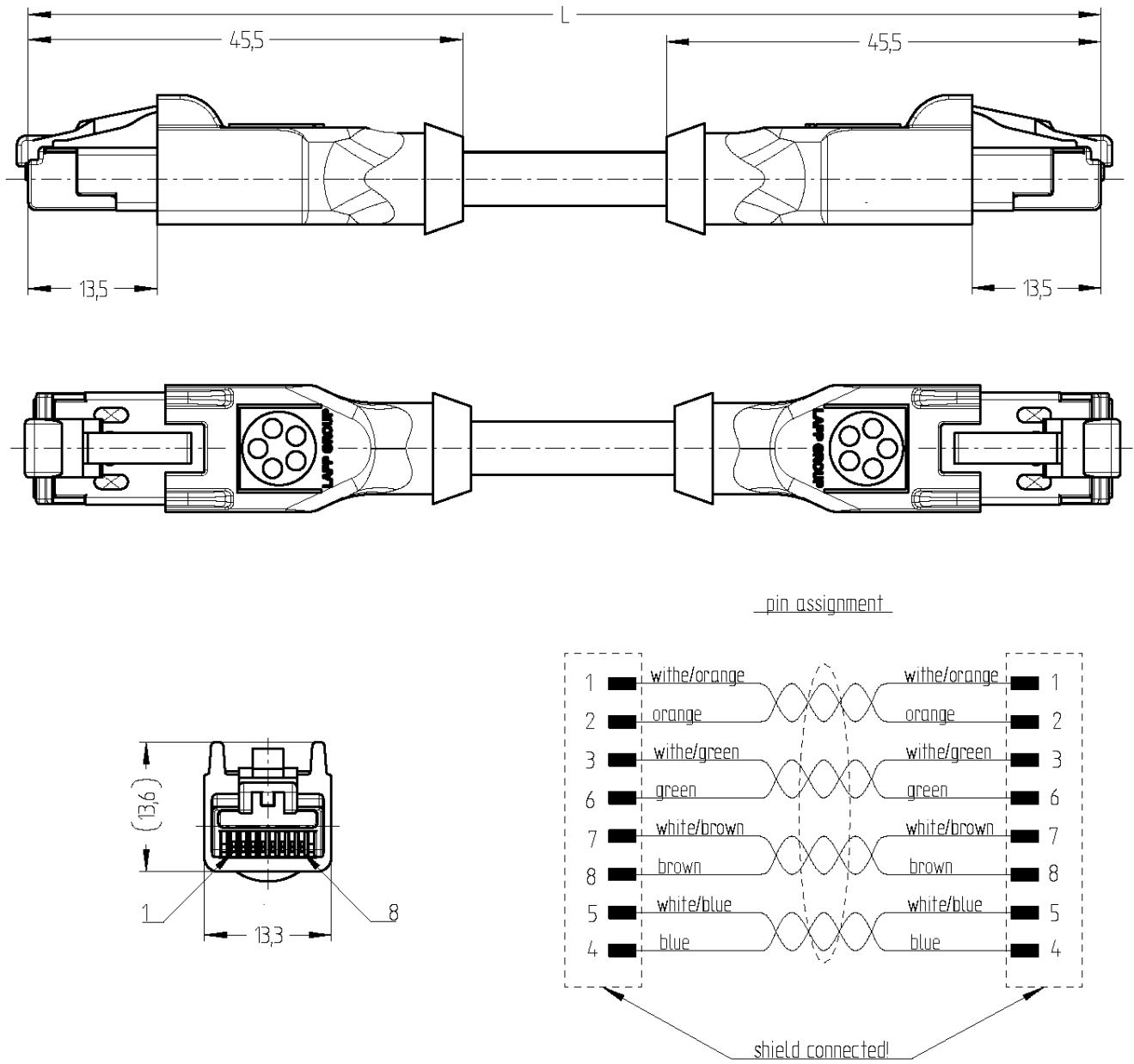
Standards

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



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.

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