



DATA SHEET	2171501
IE-5-RJ45-(L*)-P-4-26-7-RJ45	valid from: 12.10.2016

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
Mating cycles, RJ45 connector	750
Screening	SF/UTP

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%

Issued by: MANA2/PDP Released: IVSE1/PDP	Document: DB2171501EN Version: 05	Page 1 of 3
---	--------------------------------------	-------------



DATA SHEET	2171501
IE-5-RJ45-(L*)-P-4-26-7-RJ45	valid from: 12.10.2016

Electrical properties, cable at 20°C

Resistance (loop)	≤ 284 Ω/km
Insulation material, specific electrical resistance	≥ 5 GΩ*km
Characteristic impedance (1 MHz to 100 MHz)	100 Ω ± 15 Ω
Operating peak voltage	125 V (not for power purposes)
Signal propagation time	< 4.45 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)	-30 °C to +80 °C
Permissible temperature range, during laying (VDE)	-5 °C to + 80 °C
Permissible temperature range, fixed installation (UL)	-30 °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	-40 °C to +70 °C
Insulation resistance	≥ 10 ⁸ Ω

Materials RJ45, connector

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

Standards

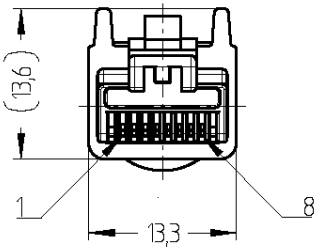
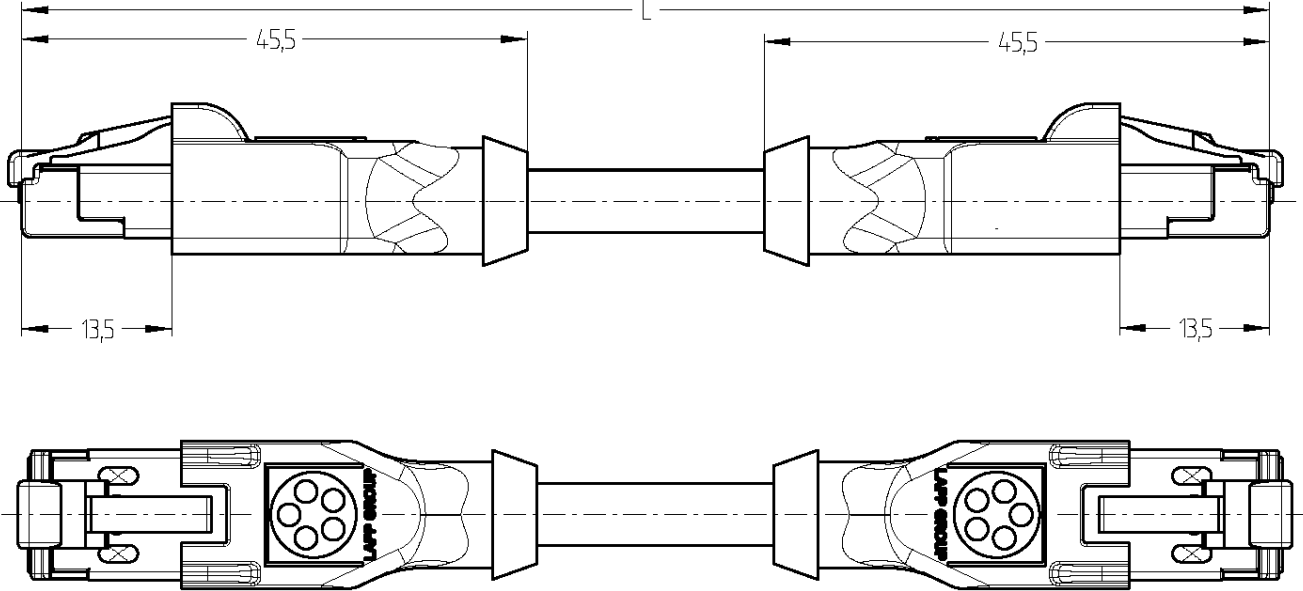
Product standard, RJ45 connector	DIN EN 60603-7-51
----------------------------------	-------------------

Issued by: MANA2/PDP Released: IVSE1/PDP	Document: DB2171501EN Version: 05	Page 2 of 3
---	--------------------------------------	-------------



DATA SHEET	2171501
IE-5-RJ45-(L*)-P-4-26-7-RJ45	valid from: 12.10.2016

Drawings



pin assignment

