

24443004	DATA SHEET	
Valid from: 03.07.2025	IE-PNC-M8D-S-1-P-2-22-7-RJ45	

Product description

Industrial Ethernet Patchcord, Profinet Type C, Cat.5, straight plug M8 on straight RJ45-plug, D-coded, 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]
24443004	IE-PNC-M8D-S-1-P-2-22-7-RJ45	1
24443005	IE-PNC-M8D-S-2-P-2-22-7-RJ45	2
24443006	IE-PNC-M8D-S-5-P-2-22-7-RJ45	5
24443007	IE-PNC-M8D-S-10-P-2-22-7-RJ45	10

General properties, Patchcord

Outer diameter, cable	6.5 mm
Number of cores	4
Outer sheath	PUR
Outer sheath, color	green similar to RAL 6018
Mating cycles, M8 connector	100
Mating cycles, RJ45 connector	750
Screening	SF/UTP

General properties, cable

LAPP-Article number of cable	2170894
LAPP-Description of cable	ETHERLINE FD P FC Cat. 5
Conductor, outer diameter	ca. 1.5 mm
Conductor, material	tinned copper, fine-wire stranded
Insulation, outer diameter	ca. 1.5 mm
Insulation, material	PE
Stranding	star quad
Wrapping	plastic tape
	plastic laminated aluminum foil
Screening	on top: braid of copper wire
	tinned wire, ca. 85% ±5%

Creator: LEBU1/PDP Released: STKU3/PDP	Document: DB24443004EN Version: 00	Page 1 of 3
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Electrical properties, cable at 20°C

Resistance (loop)	max. 11.45 Ω /100m
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	$< 520 \text{ ns}/100\text{m}$
Test voltage (rms 50 Hz, 1 min.), core-core	2000V
Test voltage (rms 50 Hz, 1 min.), core-screening	2000V

Mechanical and thermal properties, cable

Minimum bending radius, during laying	8 x cable diameter
Minimum bending radius, fixed installation	6 x cable diameter
Permissible temperature range, during laying	-20 °C to +60 °C
Permissible temperature range, fixed installation	-30 °C to +80 °C
Sunlight resistance	Yes
Flame propagation	flame retardant acc. to UL 1581 (VW-1)
Halogen free	halogen free acc. to VDE 0472-815
General requirements	The cables are compliant with EU Directive 2002/14/35/EU (Low Voltage Directive) and EU Directive 2011/65/EU (RoHS).

General properties, M8 connector

Coding	D
Protection degree	IP65 (locked connector) IP68 (24h@2m) (locked connector)
Rated voltage max.	50V AC / 60V DC
Rated current at 40 °C	4 A
Ambient temperature	-30 °C to +90 °C
Insulation resistance	$\geq 100 \text{ M}\Omega$
Locking nut with vibration protection	Yes
Tightening torque	0.6 Nm

Materials, M8 connector

Contacts, material	CuZn, gold plated
Contact carrier	TPU
Grip body	TPU
Locking nut, material	CuZn, nickel plated

General properties, RJ45 connector

Protection degree	IP20
Rated voltage max.	50 V DC
Rated current at 40 °C	1 A
Ambient temperature	-40°C to +70°C

Materials, RJ45-connector

Contact, material	CuZn, gold plated
Contact carrier material	PC
Grip body	TPU

Creator: LEBU1/PDP Released: STKU3/PDP	Document: DB24443004EN Version: 00	Page 2 of 3
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