

24443008	DATA SHEET	
Valid from: 03.07.2025	IE-PNC-5-M8D-S-(L*)-P-2-22-7-M8D-S	

Product description

Industrial Ethernet Patchcord, Profinet Type C, Cat.5, straight plug M8 on straight plug M8, D-coded on open cable 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]
24443008	IE-PNC-5-M8D-S-1-P-2-22-7-OE	1
24443009	IE-PNC-5-M8D-S-2-P-2-22-7-OE	2
24443010	IE-PNC-5-M8D-S-5-P-2-22-7-OE	5
24443011	IE-PNC-5-M8D-S-10-P-2-22-7-OE	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
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%

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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 ns/100m
Test voltage (rms 50 Hz, 1 min.), core-core	2000 V
Test voltage (rms 50 Hz, 1 min.), core-screening	2000 V

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, M8connector

Contacts, base material	CuZn
Contacts, surface	Au
Contact carrier	TPU
Grip body	TPU
Locking nut, base material	CuZn
Locking nut, surface	Ni

Standards

Product standard, M8 connector	DIN EN 61076-2-114
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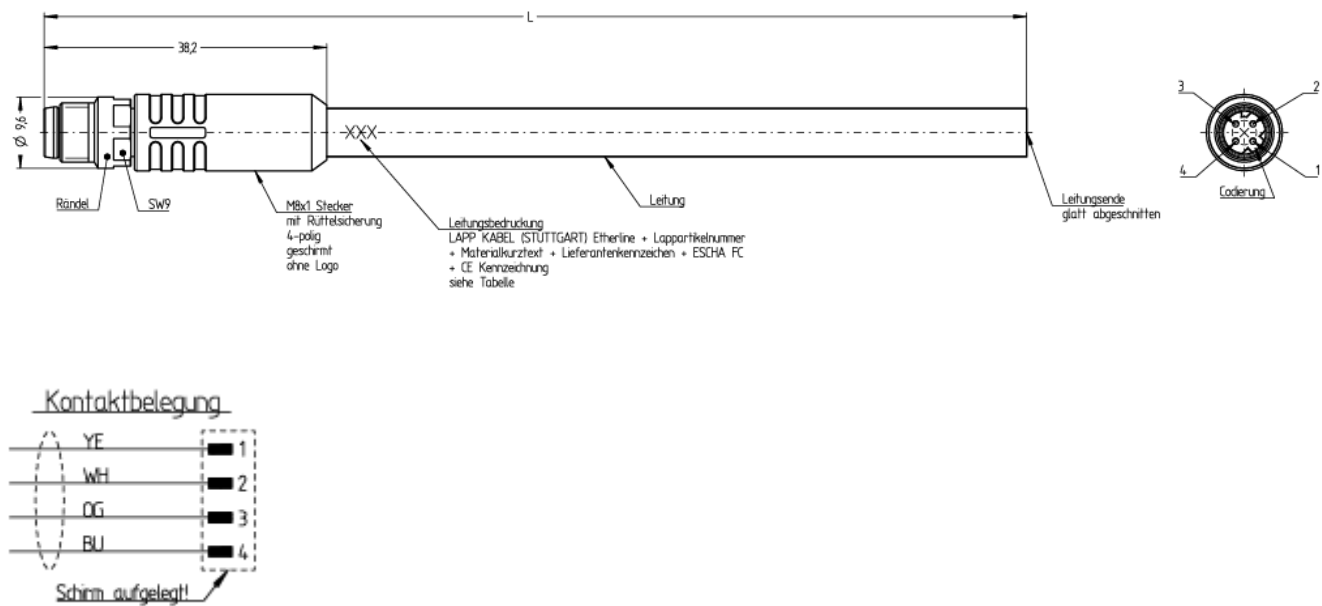
Approvals

UL-listed, E-File	In preparation
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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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