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 connector100Mating cycles, RJ45 connector750ScreeningSF/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. $11.45 \Omega/100m$

Insulation material, specific electrical resistance $\geq 0.5~G\Omega^*$ 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 2000V Test voltage (rms 50 Hz, 1 min.), core-screening 2000V

Mechanical and thermal properties, cable

Minimum bending radius, during laying

Minimum bending radius, fixed installation

Permissible temperature range, during laying

Permissible temperature range, fixed installation

8 x cable diameter

6 x cable diameter

-20 °C to +60 °C

-30 °C to +80 °C

Sunlight resistance

Flame propagation flame retardant acc. to UL 1581 (VW-1) Halogen free halogen free acc. to VDE 0472-815

The cables are compliant with EU Directive

General requirements 200214/35/EU (Low Voltage Directive) and EU

Yes

Directive 2011/65/EU (RoHS).

General properties, M8 connector

Coding

Protection degree IP65 (locked connector)

IP68 (24h@2m) (locked connector)

Rated voltage max. 50V AC / 60V DC

Rated current at 40 °C 4 A

 $\begin{array}{lll} \mbox{Ambient temperature} & -30\ ^{\circ}\mbox{C to +90\ ^{\circ}\mbox{C}} \\ \mbox{Insulation resistance} & \geq 100\ \mbox{M}\Omega \\ \mbox{Locking nut with vibration protection} & \mbox{Yes} \\ \mbox{Tightening torque} & 0.6\ \mbox{Nm} \\ \end{array}$

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

Contac carrier material PC
Grip body TPU

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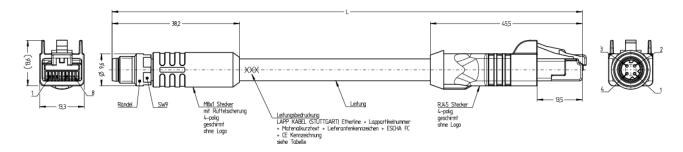
Standards

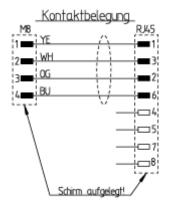
Product standard, M8 connector DIN EN 61076-2-114

Approvals

UL-listed, E-File In preparation

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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