2171215

DATA SHEET

Valid from: 17.09.2018

IE-PNB-5-M12D-S-(L*)-Y-2-22-7-RJ45



Product description

Industrial Ethernet Patchcord, Profinet Type B, Cat.5, straight plug M12 (D-coded) on straight plug RJ45, PVC, flexible



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

Product variations

Article number	Article description	Length (L*) [m]
2171215	IE-PNB-5-M12D-S-1-Y-2-22-7-RJ45	1
2171216	IE-PNB-5-M12D-S-2-Y-2-22-7-RJ45	2
2171217	IE-PNB-5-M12D-S-3-Y-2-22-7-RJ45	3
2171218	IE-PNB-5-M12D-S-5-Y-2-22-7-RJ45	5
2171219	IE-PNB-5-M12D-S-10-Y-2-22-7-RJ45	10
2171220	IE-PNB-5-M12D-S-20-Y-2-22-7-RJ45	20

General properties, Patchcord

Outer diameter, cable 6.5 mm

Number of cores 4

Outer sheath PVC

Outer sheath, color green similar to RAL 6018

Mating cycles, M12 connector100Mating cycles, RJ45 connector750ScreeningSF/UTP

General properties, cable

LAPP-Article number of cable 2170886

LAPP-Description of cable ETHERLINE PN Cat. 5 Y FLEX FC

Conductor, outer diameter ca. 0.75 mm

Conductor, material braid of copper wire, tinned wire

Insulation, outer diameter ca. 1.5 mm

Insulation, material PE

Core identification code acc. to IEC 708-1: white, yellow, blue, orange

Stranding star quad (optional with central filler)

Wrapping plastic tape (overlapping)

plastic laminated aluminum foil (overlapping)

Screening on top: braid of copper wire

tinned wire, coverage ca. 85%

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Electrical properties, cable at 20°C

Resistance (loop) $\leq 120 \ \Omega/km$ Insulation material, specific electrical resistance $\geq 500 \ M\Omega^*km$ Characteristic impedance (1 MHz to 100 MHz) $100 \ \Omega \pm 15 \ \Omega$ UL-Rating $600 \ V$

Signal propagation time < 5.3 ns/m
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 15 x cable diameter Minimum bending radius, fixed installation 10 x cable diameter Permissible temperature range, during laying -20 $^{\circ}$ C to +60 $^{\circ}$ C Permissible temperature range, fixed installation -40 $^{\circ}$ C to +80 $^{\circ}$ C

Sunlight resistance sunlight resistant acc. to UL 1581 Sec. 1200
Oil resistance oil resistant acc. to UL 1581 Sec. 480 (60°C)
Flame propagation flame retardant acc. to UL 1685 (CSA FT 4)
Dangerous and forbidden substance acc. to RoHS

General requirements directive (2002/95/EG) are not allowed to the

manufacturing

General properties, M12 connector

Coding

Protection degree IP67/IP69 locked connector

Rated voltage max. 250 V Rated current at 40 °C 4 A

Ambient temperature -30 °C to +90 °C

 $\begin{array}{ll} \mbox{Insulation resistance} & \geq 10^8 \ \Omega \\ \mbox{Locking nut with vibration protection} & \mbox{Yes} \\ \mbox{Tightening torque} & 1.0 \ \mbox{Nm} \\ \end{array}$

Materials, M12 connector

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

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 $\geq 10^8 \Omega$

Materials, RJ45 connector

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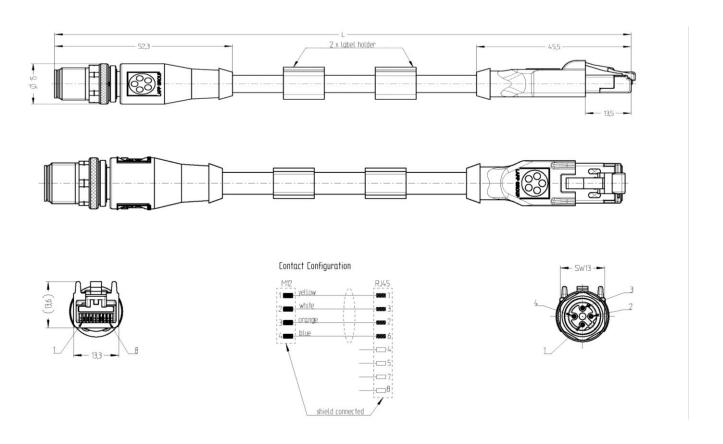


Contacts, base material CuZn
Contacts, surface Au
Grip body TPU

Standards

Product standard, M12 connector DIN EN 61076-2-101 Product standard, RJ45 connector DIN EN 60603-7-51

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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