2171293

DATA SHEET

Valid from: 22.06.2021

IE-PNB-5-M12DF-S-(L*)-Y-2-22-7-RJ45



Product description

Industrial Ethernet Patchcord, Profinet Type B, Cat.5, straight flange jack M12 on straight plug RJ45, D-coded, 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]
2171293	IE-PNB-5-M12DF-S-0,5-Y-2-22-7-RJ45	0,5
2171294	IE-PNB-5-M12DF-S-1-Y-2-22-7-RJ45	1
2171295	IE-PNB-5-M12DF-S-2-Y-2-22-7-RJ45	2
2171296	IE-PNB-5-M12DF-S-3-Y-2-22-7-RJ45	3
2171297	IE-PNB-5-M12DF-S-5-Y-2-22-7-RJ45	5

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 P

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

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

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 -20 °C to +75 °C

Insulation resistance $\geq 10^8 \Omega$

Materials, RJ45 connector

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

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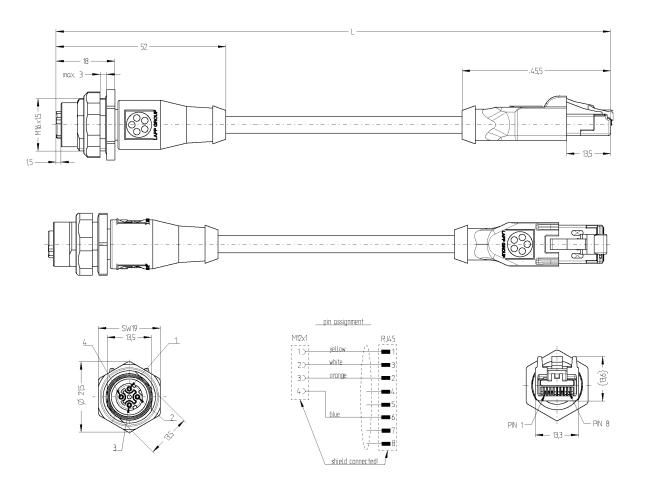


Standards

Product standard, M12 connector Product standard, RJ45 connector

DIN EN 61076-2-101 DIN EN 60603-7-51

Drawings



Note

Photographs are not true to scale and do not represent detailed images of the respective products.