2171109

DATA SHEET

Valid from: 17.09.2018

IE-5-M12D-S-(L*)-P-2-26-7-RJ45



Product description

Industrial Ethernet Patchcord, Cat.5e, straight plug M12 (D-coded) on straight plug RJ45, PUR, flexible



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

Product variations

Article number	Article description	Length (L*) [m]
2171109	IE-5-M12D-S-1-P-2-26-7-RJ45	1
2171110	IE-5-M12D-S-2-P-2-26-7-RJ45	2
2171111	IE-5-M12D-S-3-P-2-26-7-RJ45	3
2171112	IE-5-M12D-S-5-P-2-26-7-RJ45	5
2171113	IE-5-M12D-S-10-P-2-26-7-RJ45	10
2171114	IE-5-M12D-S-20-P-2-26-7-RJ45	20

General properties, Patchcord

Outer diameter, cable 5.6 mm
Number of cores 4

Outer sheath PUR, halogen free compound Outer sheath, color blue similar to RAL 5021

Mating cycles, M12 connector100Mating cycles, RJ45 connector750ScreeningSF/UTP

General properties, cable

LAPP-Article number of cable 2170284

LAPP-Description of cable ETHERLINE P FLEX Cat. 5e 2x2x26/7 AWG

Conductor, cross-section ca. 0.14 mm²

Conductor, material bare copper, fine wire stranded

Insulation, outer diameter ca. 0.95 mm

Insulation, material Foam-Skin Polyolefin

Core identification code pair 1: white-orange, orange; pair 2: white-green, green

Stranding cores twisted to pairs, pairs stranded together

Wrapping 1 layer non-woven tape

. plastic laminated aluminum foil

Screening on top: braid of tinned copper wire, coverage ca. 85%

2171109

DATA SHEET

Valid from: 17.09.2018

IE-5-M12D-S-(L*)-P-2-26-7-RJ45



Electrical properties, cable at 20°C

Resistance (loop) $\leq 284 \,\Omega/\text{km}$ Insulation material, specific electrical resistance $\geq 5 \,G\Omega^*\text{km}$ Characteristic impedance (1 MHz to 100 MHz) $100 \,\Omega \pm 15 \,\Omega$

Operating peak voltage 125 V (not for power purposes)

Signal propagation time < 4.33 ns/m
Test voltage (rms 50 Hz, 1 min.), core-core 1000 V
Test voltage (rms 50 Hz, 1 min.), core-screening 500 V

Mechanical and thermal properties, cable

Minimum bending radius, during laying

Minimum bending radius, fixed installation

Permissible temperature range, during laying (VDE)

Permissible temperature range, fixed installation (VDE)

Permissible temperature range, during laying (UL)

Permissible temperature range, fixed installation (UL)

15 x cable diameter

8 x cable diameter

-5 °C to +50 °C

-30 °C to +80 °C

-30 °C to +80 °C

Flame propagation flame retardant acc. to IEC 60332-1-2

Halogen free acc. to VDE 0472-815

Dangerous and forbidden substance acc. to RoHS

General requirements directive (2011/65/EU) 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
Locking nut, surface Ni

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 $\geq 10^8 \Omega$

Creator: MANA2/PDP	Document: DB2171109EN	Page 2 of 3
Released: IVSE1/PDP	Version: 06	

2171109

DATA SHEET

Valid from: 17.09.2018

IE-5-M12D-S-(L*)-P-2-26-7-RJ45



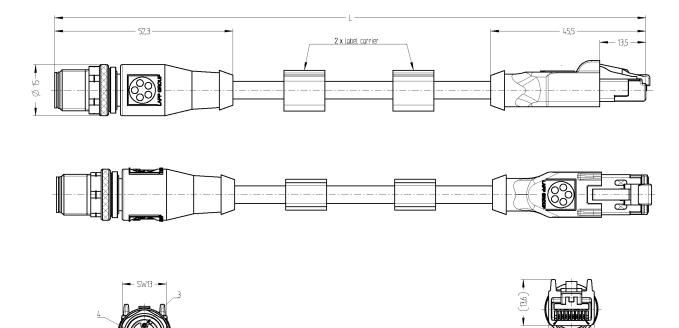
Materials RJ45, connector

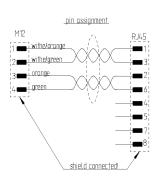
Contacts, base material CuZn
Contacts, surface Au
Grip body TPU

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.

Creator: MANA2/PDP	Document: DB2171109EN	Page 3 of 3
Released: IVSE1/PDP	Version: 06	