2172298	DATA SHEET	LAPP
Valid from: 29.08.2024	IE-6-M12XF-S-(L*)-P-4-26-FD-M12XF-S	

Description

- Ethernet patchcords Cat.6, shielded
- For industrial ethernet and cable chain
- Consisting of straight M12-jack and M12-jack

General characteristics

Connection method, connector	M12x1-jack, x-code
Number of pins	8
Ambient temperature	-30°C to +80°C (-22°F to 176°F) (fixed installation) -30°C to +70°C (-22°F to 158°F) (flexible installation)
Degree of protection	IP 65, IP 67 (M12 –plugged and locked)
Shielding	shielded
Tightening torque	1.0 Nm (M12-connector) 2.0 Nm (M12-flange nut)

Variation

Article	Description	Length (L*) [m]
2172298	IE-6-M12XF-S-0,5-P-4-26-FD-M12XF-S	0.5
2172299	IE-6-M12XF-S-1-P-4-26-FD-M12XF-S	1
2172300	IE-6-M12XF-S-2-P-4-26-FD-M12XF-S	2
2172301	IE-6-M12XF-S-3-P-4-26-FD-M12XF-S	3
2172302	IE-6-M12XF-S-5-P-4-26-FD-M12XF-S	5
2172303	IE-6-M12XF-S-7-P-4-26-FD-M12XF-S	7
2172304	IE-6-M12XF-S-10-P-4-26-FD-M12XF-S	10
2172305	IE-6-M12XF-S-15-P-4-26-FD-M12XF-S	15
2172306	IE-6-M12XF-S-20-P-4-26-FD-M12XF-S	20

Additional note

Data sheet also valid for variant lengths. Other lengths on request.

Electrical properties

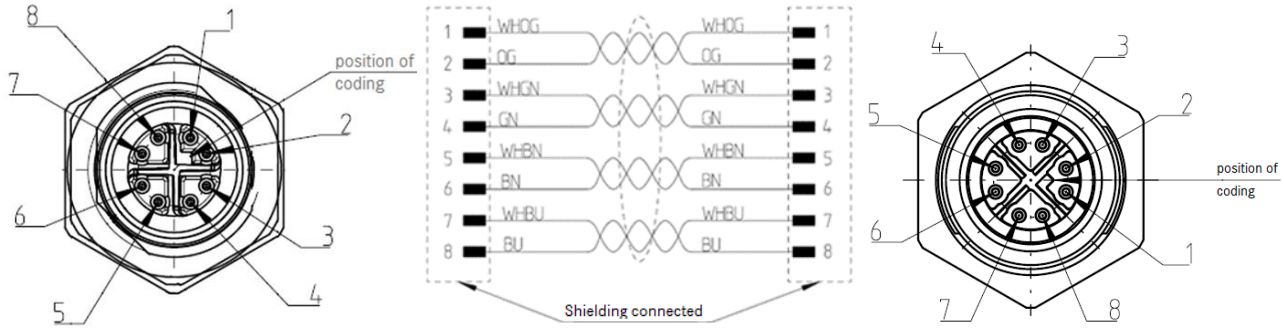
Rated voltage	50 VAC / 60 VDC
Rated current at 40 °C	0.5 A
Pollution degree	3 (M12 –plugged and locked)

Transmission characteristics

Category (ISO)	6

We reserve all rights according to DIN ISO 16016

Connector pin assignment



Mechanical properties

M12-jack

Inflammability class according to UL 94	TPU → HB NBR, FPM/FKM → none
Contact, material	CuNi, gold plated
Contact carrier, material	TPU, green
Housing, material	Cu, nickel plated
Handle, material	TPU, black
Seal outer, material	NBR, black
Seal inner, material	FPM/FKM, red
Nut, material	Cu, nickel plated

Line (Lapp article number: 2170488)

Cable construction	4x2x AWG 26 / 19
Conductor diameter including isolation	0.98 mm
Cable outer diameter	7.8 mm
Insulation color	white/blue, blue, white/orange, orange, white/green, green, white/brown, brown
Sheath color	green, similar RAL 6018
Type of pair shielding	Alufoil (overlapped)
Shielding	Braid made of tinned copper wires
Bending radius	4 x cable outer diameter (fixed installation) 7.5 x cable outer diameter (flexible installation)
Number of bending cycle	1.000.000
Traveling distance	10 m
Travel speed	4 m/s
Acceleration	4 m/s²
Cable weight	63 kg/km
Outer coating, material	PUR
Wire insulation, material	PP
Flame resistance	acc. IEC 60332-1-2 acc. CSA FT1 und NEC VW-1
Oil resistance	acc. CSA 22.2, 4 days/100 °C (212 °F)

Standards / Approvals

Product standard, M12-connector	IEC 61076-2-109
Generic cabling for customer premises – General requirements	ISO/IEC 11801

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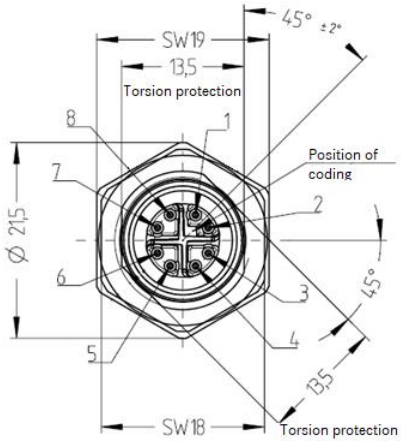
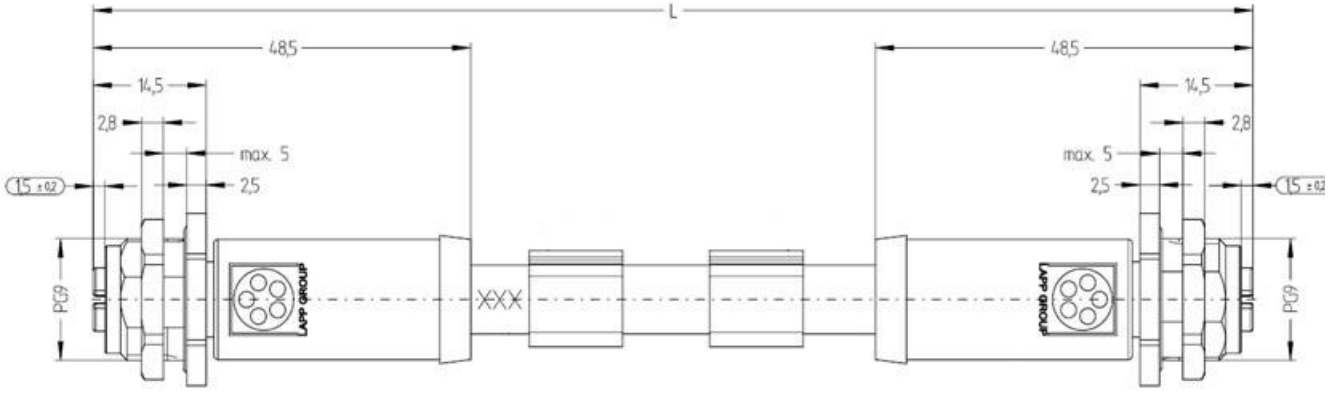
Technical drawing

Dimensional drawing



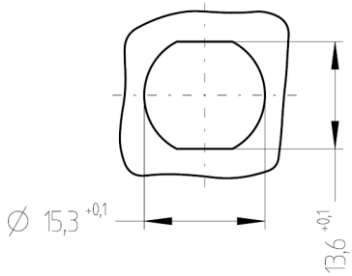
Jack M12x1

Dimensional drawing



Complete Patchcord

Dimensional drawing



Tin cut-out for torsional protection

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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