

2172255	<b>DATA SHEET</b>	
Valid from: 02.12.2024	<b>IE-6-M12XF-S-(L*)-P-4-26-FD-OE</b>	

## Description

- Ethernet patchcords Cat.6, shielded
- For industrial ethernet and cable chain
- Straight M12-jack on free conductor end



## 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]
2173036	IE-6-M12XF-S-0,5-P-4-26-FD-OE	0.5
2172255	IE-6-M12XF-S-1-P-4-26-FD-OE	1
2172256	IE-6-M12XF-S-2-P-4-26-FD-OE	2
2172257	IE-6-M12XF-S-3-P-4-26-FD-OE	3
2172258	IE-6-M12XF-S-5-P-4-26-FD-OE	5
2172259	IE-6-M12XF-S-7-P-4-26-FD-OE	7
2172260	IE-6-M12XF-S-10-P-4-26-FD-OE	10
2172261	IE-6-M12XF-S-15-P-4-26-FD-OE	15
2172262	IE-6-M12XF-S-20-P-4-26-FD-OE	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)

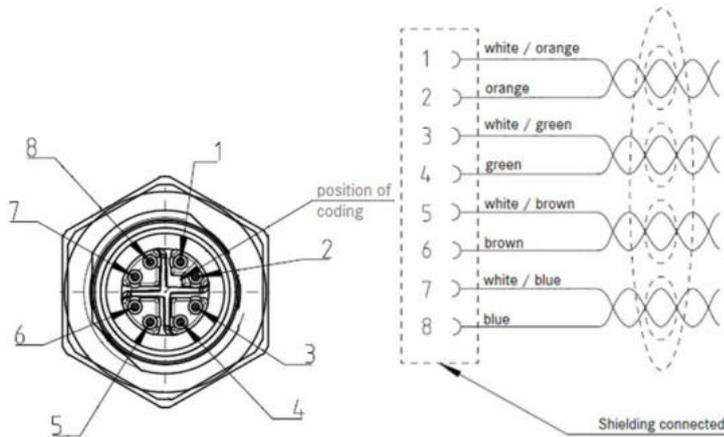
## Transmission characteristics

Category (ISO)	6
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### Connector pin assignment



### Mechanical properties

#### M12-jack

Inflammability class according to UL 94

Housing, material  
 Contact, material  
 Contact carrier, material  
 Housing, material  
 Handle, material  
 Seal outer, material  
 Seal inner, material  
 Nut, material

TPU → HB  
 NBR, FPM/FKM → none  
 Cu, nickel plated  
 CuNi, gold plated  
 TPU, green  
 Cu, vernickelt  
 TPU, black  
 NBR, black  
 FPM/FKM, red  
 Cu, nickel plated

#### Line (Lapp article number: 2170488)

Cable construction  
 Conductor diameter including isolation  
 Cable outer diameter  
 Insulation color

4x2x AWG 26 / 19  
 0.98 mm  
 7.8 mm  
 white/blue, blue, white/orange, orange,  
 white/green, green, white/brown, brown  
 green, similar RAL 6018  
 Alufoil (overlapped)  
 Braid made of tinned copper wires  
 4 x cable outer diameter (fixed installation)  
 7.5 x cable outer diameter (flexible installation)

Sheath color  
 Type of pair shielding  
 Shielding  
 Bending radius

Number of bending cycle  
 Traveling distance  
 Travel speed  
 Acceleration  
 Cable weight  
 Outer coating, material  
 Wire insulation, material  
 Flame resistance

1.000.000  
 10 m  
 4 m/s  
 4 m/s<sup>2</sup>  
 63 kg/km  
 PUR  
 PP  
 acc. IEC 60332-1-2  
 acc. CSA FT1 und NEC VW-1  
 acc. CSA 22.2, 4 days/100 °C (212 °F)

Oil resistance

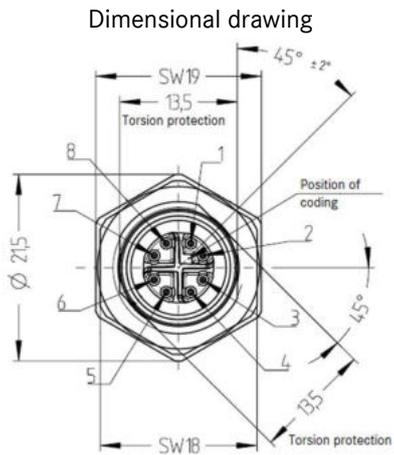
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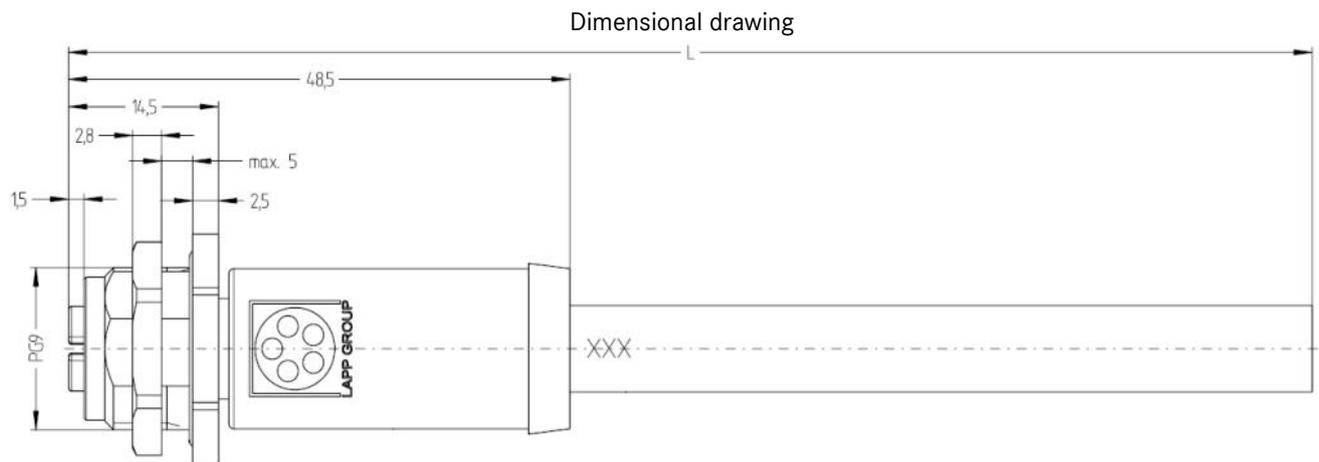
### Standards / Approvals

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

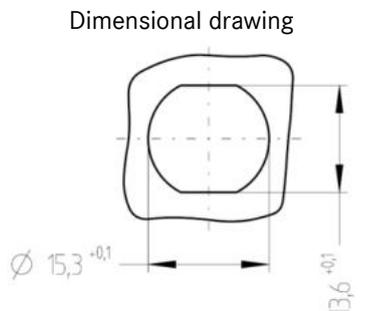
### Technical drawing



Jack M12x1



Complete Patchcord



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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