


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

## 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)

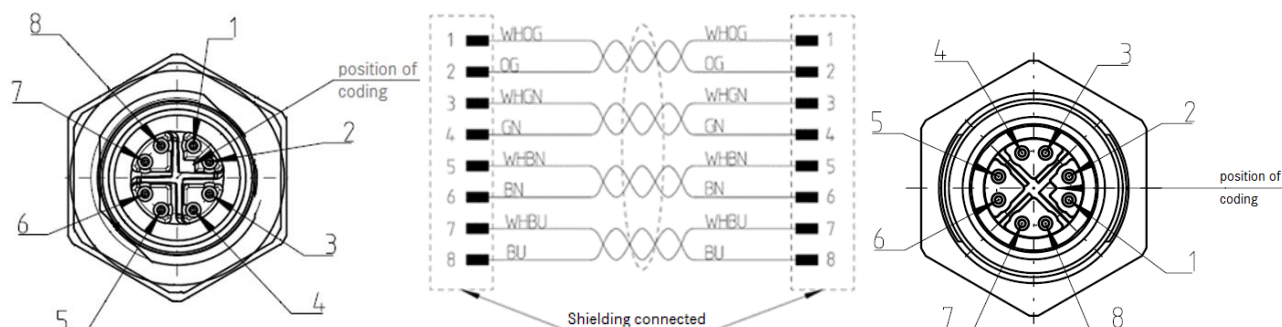
## Transmission characteristics

Category (ISO)	6
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## Connector pin assignment



## Mechanical properties

### M12-jack

Inflammability class according to UL 94

Contact, material

Contact carrier, material

Housing, material

Handle, material

Seal outer, material

Seal inner, material

Nut, material

TPU → HB

NBR, FPM/FKM → none

CuNi, gold plated

TPU, green

Cu, nickel plated

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)

1.000.000

Number of bending cycle

Traveling distance

10 m

Travel speed

4 m/s

Acceleration

4 m/s<sup>2</sup>

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

acc. CSA 22.2, 4 days/100 °C (212 °F)

Oil resistance

## Standards / Approvals


Product standard, M12-connector

IEC 61076-2-109

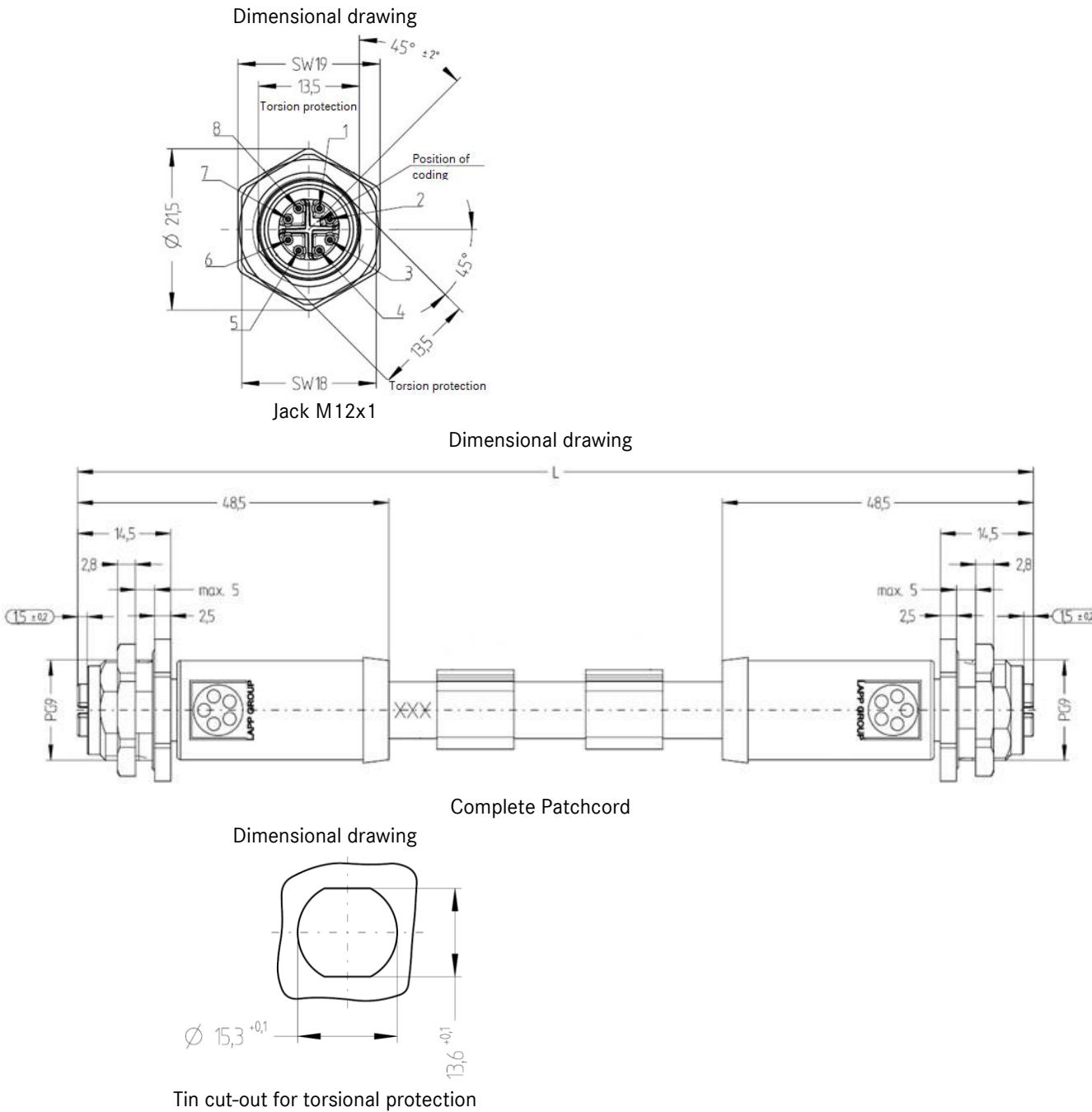
Generic cabling for customer premises – General requirements

ISO/IEC 11801

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Technical drawing



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.