


2172317	<b>DATA SHEET</b>	
Valid from: 01.12.2021	<b>IE-6A-M12X-S-(L*)-P-4-26-7-OE</b>	

## Description

- Industrial Ethernet patchcord Cat.6<sub>A</sub>, shielded
- Straight M12-plug, x-coded on free conductor end
- Based on ETHERLINE<sup>®</sup> Cat.7 FLEX (2170934)



## General characteristics

Connection method, connector	M12-plug, x-coded
Number of pins	8
Ambient temperature	-30°C to +90°C (-22°F to 194°F)
Degree of protection	IP 65, IP 67 (M12, plugged and locked)
Shielding	Shielded
Tightening torque	1.0 Nm (M12-connector)
Colour coding (pin assignment)	TIA/EIA-568-B
Conformity	RoHS conform REACH conform LABS free

## Variation

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


Article	Description	Length (L*) [m]
2172317	IE-6A-M12X-S-0,5-P-4-26-7-OE	0.5
2172318	IE-6A-M12X-S-1-P-4-26-7-OE	1
2172319	IE-6A-M12X-S-2-P-4-26-7-OE	2
2172320	IE-6A-M12X-S-3-P-4-26-7-OE	3
2172321	IE-6A-M12X-S-5-P-4-26-7-OE	5
2172322	IE-6A-M12X-S-7-P-4-26-7-OE	7
2172323	IE-6A-M12X-S-10-P-4-26-7-OE	10
2172324	IE-6A-M12X-S-15-P-4-26-7-OE	15
2172325	IE-6A-M12X-S-20-P-4-26-7-OE	20

## Electrical properties

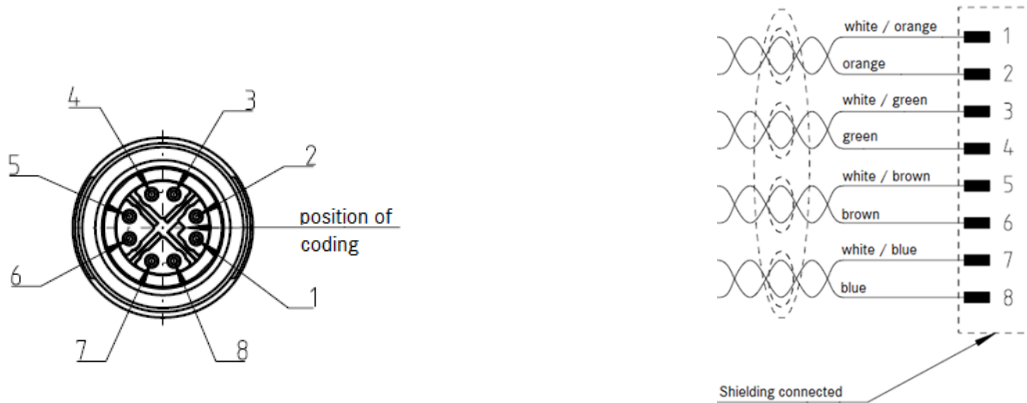
Rated voltage	50 VAC / 60 VDC
Rated current at 40 °C	0.5 A
Pollution degree	3 (M12, plugged and locked)

## Transmission characteristics

Category (acc. ISO/IEC 11801)	6 <sub>A</sub>
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### Connector pin assignment



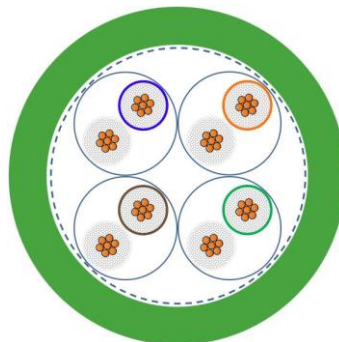
### Mechanical properties

#### M12-plug

Flammability class according to UL 94  
 Contact, material  
 Contact carrier, material  
 Housing, material  
 Knurl, material  
 Handle, material

TPU → HB  
 CuNi, gold plated  
 TPU, nature  
 Cu, nickel plated  
 Cu, nickel plated  
 TPU, black

### Cable (Lapp article number: 2170934)



#### Design

Certification E63634 cRUus AWM Style 21238 80°C 600V I/II A/B acc. to UL 758 & CSA C22.2 No.210

Conductor stranded bare copper  
 26/7 AWG

Insulation polyolefin (foamed)  
 insulation-diameter: ca. 1.0 mm


Core identification code pair 1: white/blue, pair 2: white/orange, pair 3: white/green, pair 4: white/brown  
 (colored ring marking on the white cores is optional)

Stranding 2 cores stranded to pair, 4 pairs stranded to bundle

Pair screen plastic laminated aluminium foil (overlapping)

Screen braid of tinned copper wire (coverage ca. 70 %)

Outer sheath PUR  
 green, similar to RAL 6018  
 outer diameter: ca. 6.4 mm

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### Electrical properties at 20°C

Loop resistance	≤ 29 Ω/100 m	
Insulation resistance	min. 5 GΩ x km	
Mutual capacitance	nom. 46 nF/km	
Characteristic impedance	100 Ω acc. to IEC 61156-6	
Maximum operating voltage	100 V (not for power applications)	
Test voltage	core/core:	2000 V
	core/screen:	2000 V

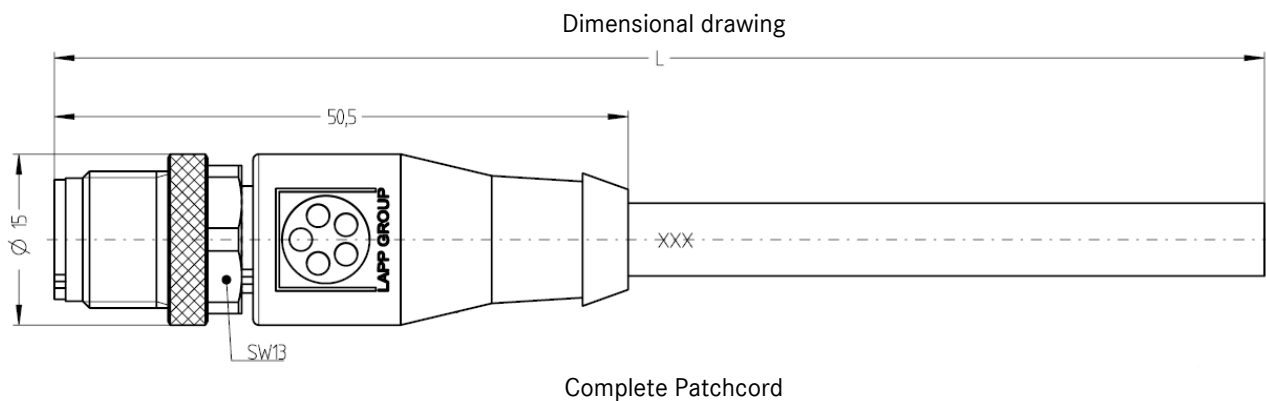
### Mechanical and thermal properties

Minimum bending radius	fixed: 4 × outer diameter
	occasional flexing: 10 × outer diameter
Temperature range	fixed: -50 °C up to +80 °C
	occasional flexing: -40 °C up to +80 °C
	UL/CSA: 80 °C
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 HFT acc. to UL 1581 §1090
Halogen free	acc. to VDE 0472-815
UV resistance	acc. to ISO 4892-2, method A
Oil resistance	acc. to EN 50363-10-2

### Standards / Approvals

Product standard, M12-connector	IEC 61076-2-109
Generic cabling for customer premises – General requirements	DIN EN 50173-1 ISO/IEC 11801-1

### Technical drawing



### Certification

Certified acc. to ECE R118

### 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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