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IE-6A-M12XF-S-(L\*)-P-4-26-7-M12XF-S



#### Description

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



#### **General characteristics**

M12-jack, x-coded
8
-30°C to +90°C (-22°F to 194°F)
IP 65, IP 67 (M12, plugged and locked)
Shielded
1.0 Nm (M12-connector)
2.0 Nm (M12-flange nut)
TIA/EIA-568-B
RoHS conform
REACH conform
LABS free

#### Variation

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

Article	Description	Length (L*) [m]
2172344	IE-6A-M12XF-S-0,5-P-4-26-7-M12XF-S	0.5
2172345	IE-6A-M12XF-S-1-P-4-26-7-M12XF-S	1
2172346	IE-6A-M12XF-S-2-P-4-26-7-M12XF-S	2
2172347	IE-6A-M12XF-S-3-P-4-26-7-M12XF-S	3
2172348	IE-6A-M12XF-S-5-P-4-26-7-M12XF-S	5
2172349	IE-6A-M12XF-S-7-P-4-26-7-M12XF-S	7
2172350	IE-6A-M12XF-S-10-P-4-26-7-M12XF-S	10
2172351	IE-6A-M12XF-S-15-P-4-26-7-M12XF-S	15
2172352	IE-6A-M12XF-S-20-P-4-26-7-M12XF-S	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)

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6<sub>A</sub>

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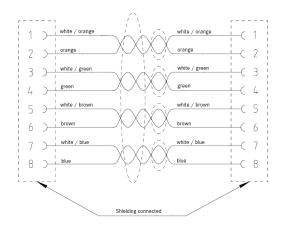
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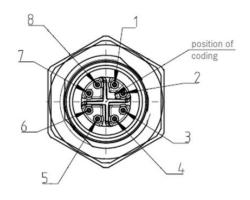


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#### Connector pin assignment





#### **Mechanical properties**

#### M12-jack

Flammability 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

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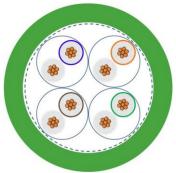
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# **DATA SHEET**

IE-6A-M12XF-S-(L\*)-P-4-26-7-M12XF-S



## 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)		
Core identification code	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		
Electrical properties at 20°C			
Loop resistance	≤ 29 Ω/100 m		
Insulation resistance	min. 5 G $\Omega$ x km		
Mutual capacitance	nom. 46 nF/km		
Characteristic impedance	100 $\Omega$ 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 propert			
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		

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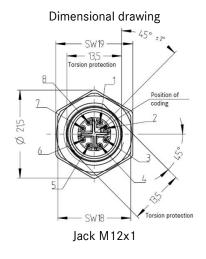
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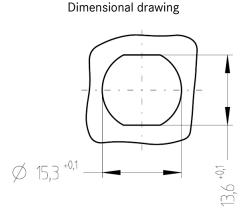
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# Standards / Approvals

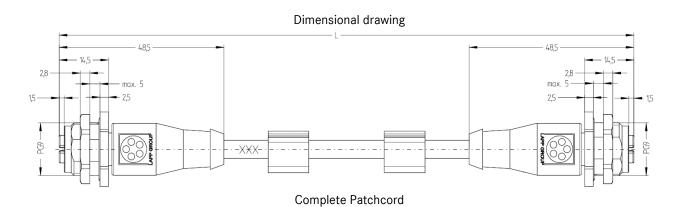
Product standard, M12-connector Generic cabling for customer premises – General requirements IEC 61076-2-109 ISO/IEC 11801-1

#### **Technical drawing**





Tin cut-out for torsional protection



#### 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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