Valid from: 01.12.2021

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



Description

- Industrial Ethernet patchcord Cat.6_A, shielded
- Straight M12-jack, x-coded and straight M12-jack, x-coded
- Based on ETHERLINE[®] 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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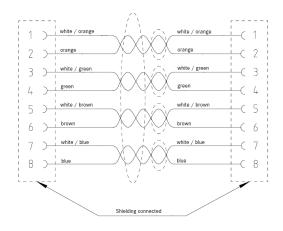
DATA SHEET

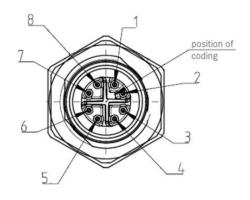


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Connector pin assignment





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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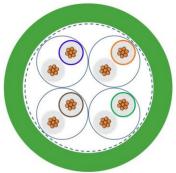
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DATA SHEET

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 Ω 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 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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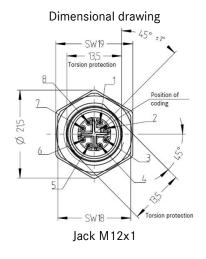
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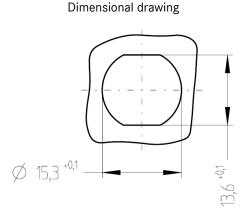
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Standards / Approvals

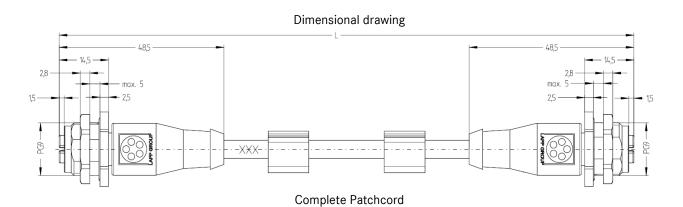
Product standard, M12-connector Generic cabling for customer premises – General requirements IEC 61076-2-109 ISO/IEC 11801-1

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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