Valid from: 01.12.2021



Description

- Industrial Ethernet patchcord Cat.6_A, shielded
- Straight M12-jack, x-coded and straight M12-plug, x-coded
- Based on ETHERLINE[®] Cat.7 FLEX (2170934)

General characteristics

Connection method, connector

Number of pins Ambient temperature Degree of protection Shielding Tightening torque

Colour coding (pin assignment) Conformity M12-jack, x-coded M12-plug, 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]
2172335	IE-6A-M12X-S-0,5-P-4-26-7-M12XF-S	0.5
2172336	IE-6A-M12X-S-1-P-4-26-7-M12XF-S	1
2172337	IE-6A-M12X-S-2-P-4-26-7-M12XF-S	2
2172338	IE-6A-M12X-S-3-P-4-26-7-M12XF-S	3
2172339	IE-6A-M12X-S-5-P-4-26-7-M12XF-S	5
2172340	IE-6A-M12X-S-7-P-4-26-7-M12XF-S	7
2172341	IE-6A-M12X-S-10-P-4-26-7-M12XF-S	10
2172342	IE-6A-M12X-S-15-P-4-26-7-M12XF-S	15
2172343	IE-6A-M12X-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)

6_A

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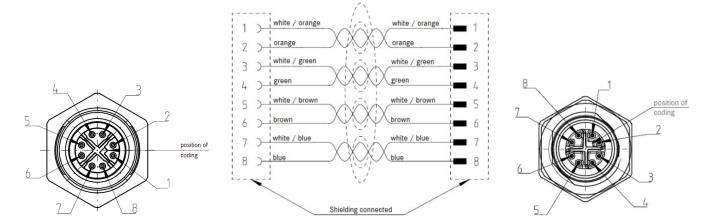
DATA SHEET



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IE-6A-M12X-S-(L*)-P-4-26-7-M12XF-S

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

M12-plug

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

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

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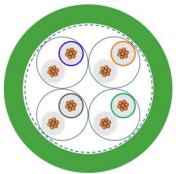
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DATA SHEET

IE-6A-M12X-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.		
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 alumini	um foil (overlapping)	
Screen	braid of tinned copper wire (coverage ca. 70 %)		
Outer sheath	PUR		
	green, similar to RAL 6018		
	outer diameter: ca. 6.4 n	ım	
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		
Halagan frag	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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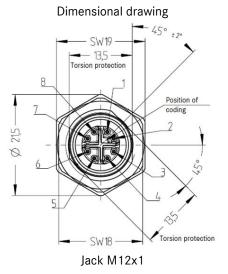
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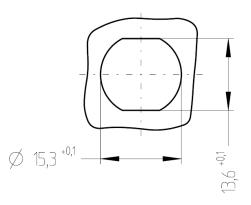
Standards / Approvals

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

Technical drawing

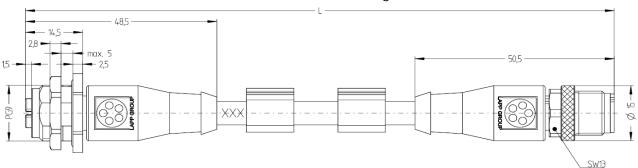


Dimensional drawing



Tin cut-out for torsional protection

Dimensional drawing



Complete Patchcord

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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