

2172326	DATA SHEET	
Valid from: 01.12.2021	IE-6A-M12X-S-(L*)-P-4-26-7-M12X-S	

Description

- Industrial Ethernet patchcord Cat.6_A, shielded
- Straight M12-plug, x-coded and straight M12-plug, x-coded
- Based on ETHERLINE® 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 available on request.

Article	Description	Length (L*) [m]
2172326	IE-6A-M12X-S-0,5-P-4-26-7-M12X-S	0.5
2172327	IE-6A-M12X-S-1-P-4-26-7-M12X-S	1
2172328	IE-6A-M12X-S-2-P-4-26-7-M12X-S	2
2172329	IE-6A-M12X-S-3-P-4-26-7-M12X-S	3
2172330	IE-6A-M12X-S-5-P-4-26-7-M12X-S	5
2172331	IE-6A-M12X-S-7-P-4-26-7-M12X-S	7
2172332	IE-6A-M12X-S-10-P-4-26-7-M12X-S	10
2172333	IE-6A-M12X-S-15-P-4-26-7-M12X-S	15
2172334	IE-6A-M12X-S-20-P-4-26-7-M12X-S	20

Electrical properties

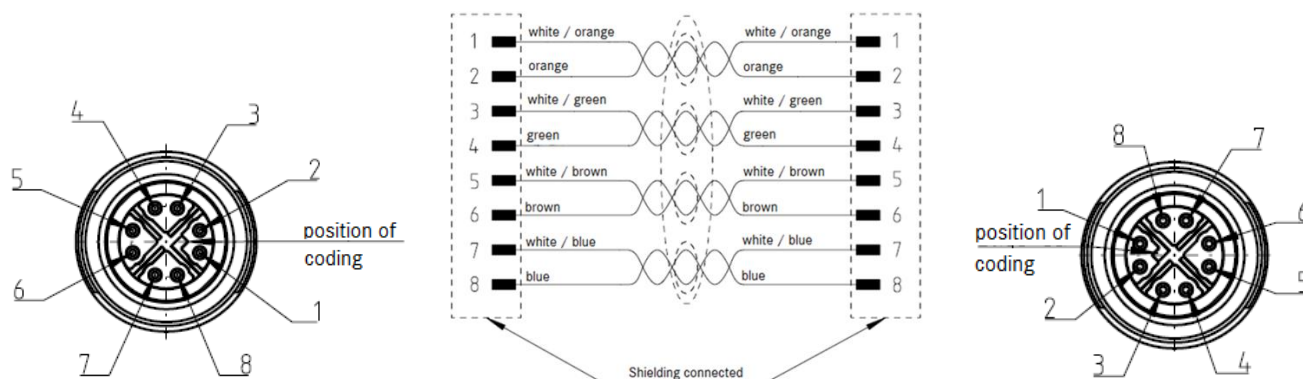
Rated voltage	50 VAC / 60 VDC
Rated current at 40 °C	0.5 A
Pollution degree	3 (M12, plugged and locked)

Transmission characteristics

Category (acc. ISO/IEC 11801)	6 _A
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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

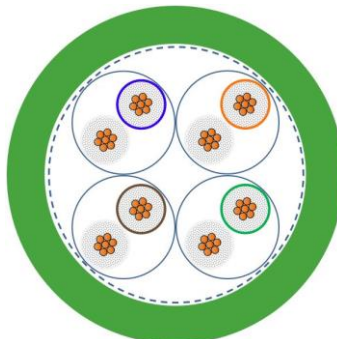
TPU, nature

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	$\leq 29 \Omega / 100 \text{ m}$	
Insulation resistance	min. $5 \text{ G}\Omega \times \text{km}$	
Mutual capacitance	nom. 46 nF/km	
Characteristic impedance	100Ω acc. to IEC 61156-6	
Maximum operating voltage	100 V (not for power applications)	
Test voltage	core/core:	2000 V
	core/screen:	2000 V

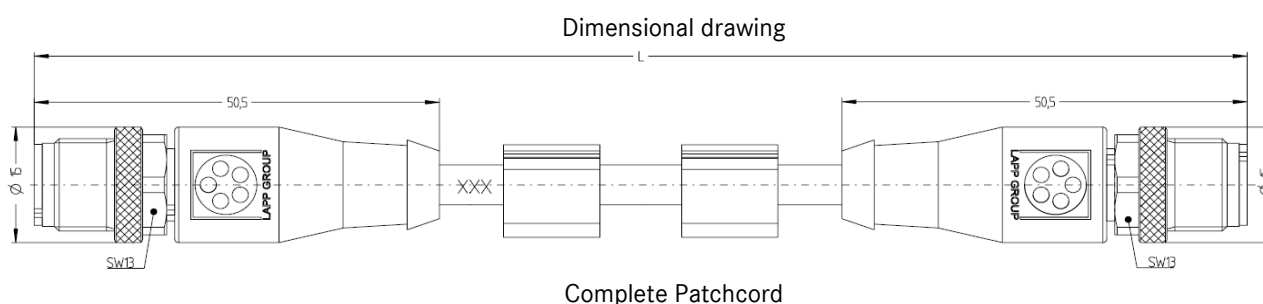
Mechanical and thermal properties

Minimum bending radius	fixed: $4 \times$ outer diameter
	occasional flexing: $10 \times$ outer diameter
Temperature range	fixed: $-50 \text{ }^{\circ}\text{C}$ up to $+80 \text{ }^{\circ}\text{C}$
	occasional flexing: $-40 \text{ }^{\circ}\text{C}$ up to $+80 \text{ }^{\circ}\text{C}$
	UL/CSA: $80 \text{ }^{\circ}\text{C}$
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

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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