

Data sheet

**M12 Sensor/actuator cable, A-coded,
M12 plug angled - free line end,
unshielded, 8-pole, PUR**

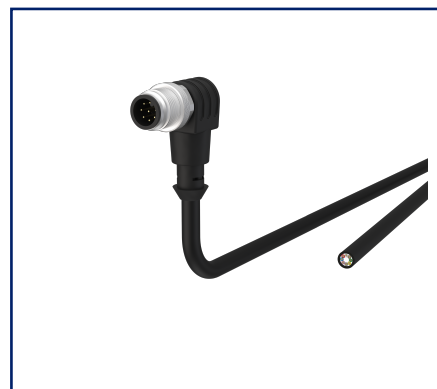
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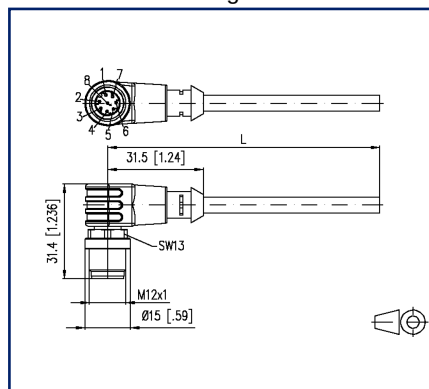
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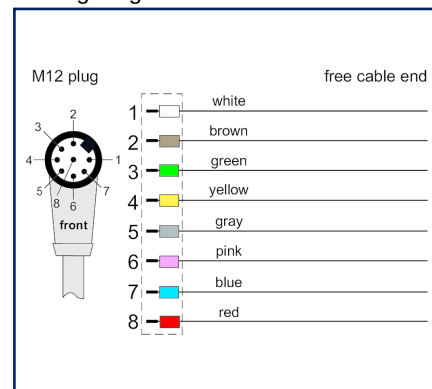
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

Flexible, silicone- and halogen-free control cable with high mechanical strength. The cable is resistant to chemicals, hydrolysis and microbes. The drag-chain application is possible at a bending radius of minimum 10xd. Due to its weld-field immunity, the cable is very well suited for the flexible application in robotics, machine tools and metal-cutting production. The cables meet the UL and CSA (UL10493/20549; cULus) requirements. Special features: flame retardant, seawater resistant, recyclable, LABS free, RoHs compliant, acid and alkali resistant, ozone resistant, UV resistant, hydrolysis proof, drag chain resistant, torsion resistant, welding sparks resistant, halogen free, silicone free, oil resistant

- all available variants can be created with the configurator

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Technical Data

General Data	
Fields of application	Industrial Ethernet
Design	Sensor/actuator connection cable M12, A-coded
Shielding	unshielded
Transmission technology	Copper
Color coding fiber/ wire(s)	white, brown, green, yellow, gray, pink, blue, red
Color	black
Dimensions	
Dimension - Interface 1 (L x W x H)	31.4 mm x 31.5 mm x 15 mm
Dimension - Interface 1 (L x W x H)	1.236 in. x 1.24 in. x 0.591 in.
Labeling option	identification label carrier
Connections/interfaces	
Connector technology interface 1	M12-plug angled
Connector technology interface 2	free line end
Coding interface 1	A-coded
Number of positions/contacts interface 1	8
Termination data, stranded wire (min. - max.)	
Conductor cross section, stranded wire	AWG 24/32
Conductor cross section, stranded wire	0.25 mm ²
Stranded wire structure	32x0.10mm
Cable sheath diameter (min. - max.)	
Cable sheath diameter	5.9 mm
Cable sheath diameter	0.232 in.
Electrical characteristics	
Current carrying capacity	2 A at 40 °C
Rated voltage	30 V
Insulation resistance	min. 100 MOhm



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Mechanical data

Life - Number of mating cycles	min. 100
Torsion	+/-180°/m, >= 0.5 million cycles
Maximum operating bending radius	59 mm
Alternating bending radius	59 mm
acceleration	5 m/s ²

Materials and material properties

Cable

Material - Conductor	Cu (copper)
Material - Conductor Insulation	polypropylene
Material - Cable jacket	PUR
Flame retardancy	yes

Interface 1

Material - Body interface 1	Plastics
Material - Contact interface 1	CuSn
Material - Contact finish interface 1	Au (gold)
Material - Contact carriers interface 1	Plastics
Material - Union nut interface 1	CuZnPb (brass)
Material - Union nut finish interface 1	Ni (nickel)
Oil resistance	yes
UV-resistance	yes
drag chain suitable	yes
torsional	yes
RoHS	compliant

Environmental conditions

Temperature (min. - max.)

Temperature - Operating °C	-50 °C - 90 °C
Temperature - Operating °F	-58 °F - 194 °F
Temperature - Installation °C	-30 °C - 90 °C
Temperature - Installation °F	-22 °F - 194 °F
Temperature - drag chain °C	-25 °C - 60 °C
Temperature - drag chain °F	-13 °F - 140 °F



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Environmental conditions

Particulate ingress interface 1	IP6X when plugged in
Liquid ingress/immersion interface 1	IPX5, IPX7, IPX8 when plugged in
Pollution degree interface 1	3

Approvals

UL listed (file no.)	Approval pending
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Standards/Regulations

Connectors for electronic equipment	
circular connector	DIN EN 61076-2-101

Classifications

ETIM 7.0	EC001855
ETIM 8.0	EC001855

Packing details

Type of packaging	1 pc(s) / plastic bag
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Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way.



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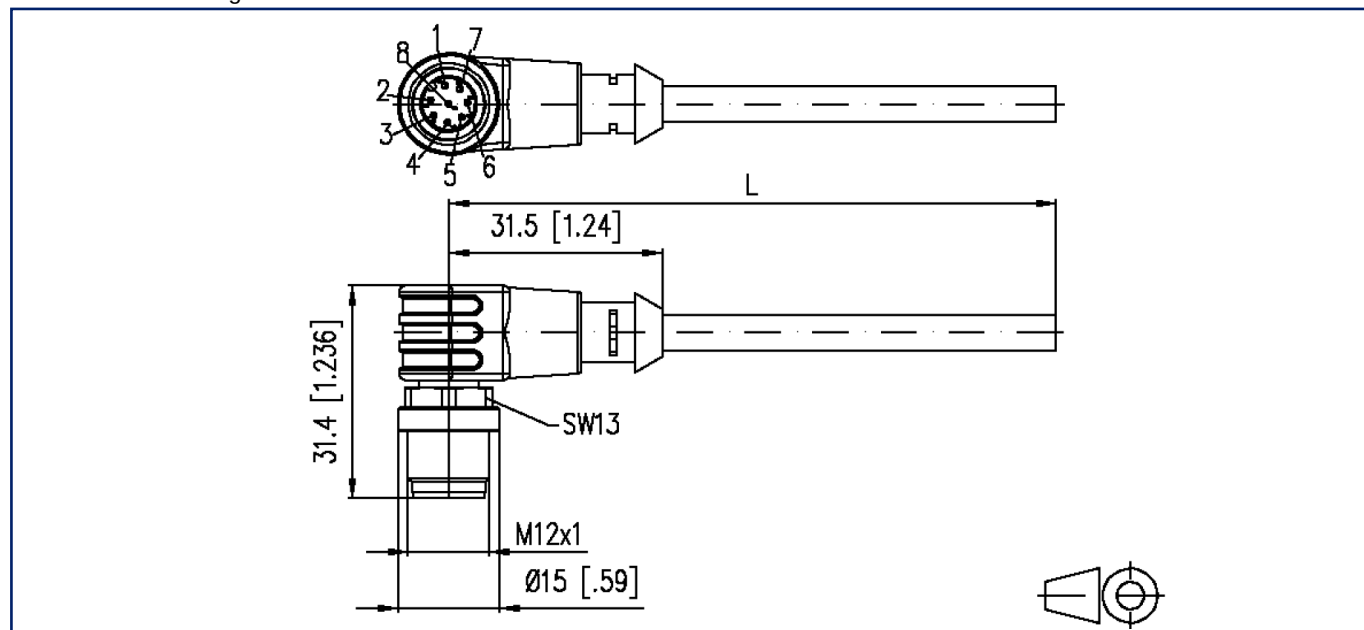
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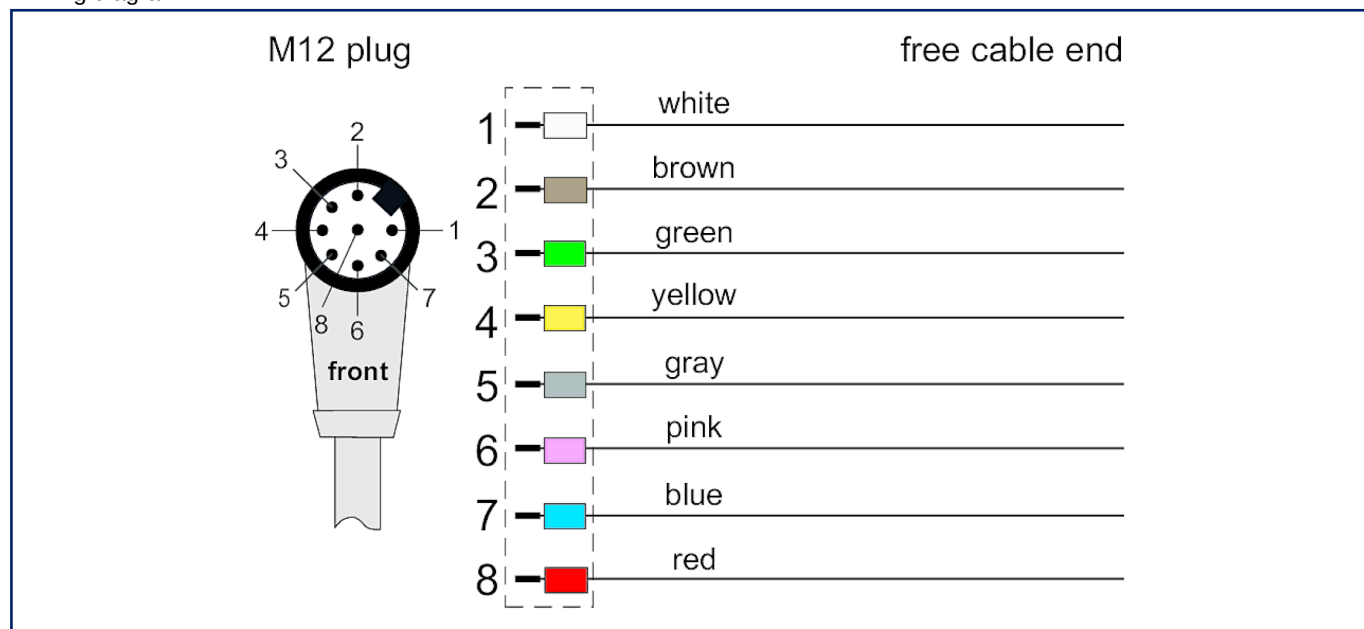
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Illustrations

Dimensional drawing



Wiring diagram



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Principle diagram

