

Data sheet

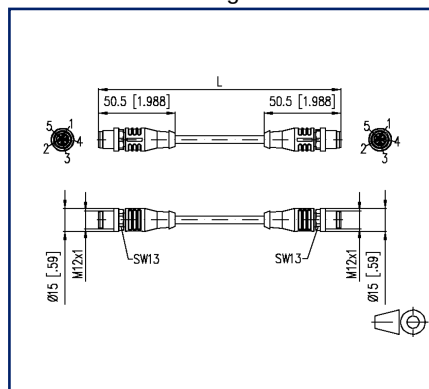
**M12 Sensor/actuator cable, A-coded, 10.0 m,
M12 plug straight - M12 plug straight,
shielded, 5-pole, PUR-C**

P/N
142MGA11100
EAN **4251394647555**
2025/06/13
Version: H

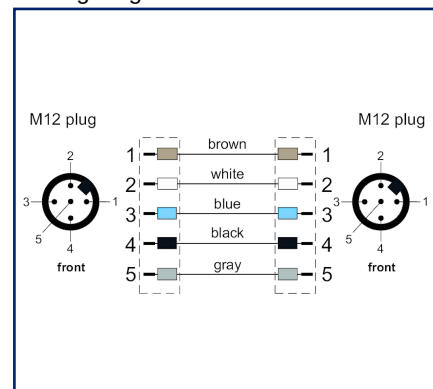
Illustrations



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

- Standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m.
- Other cable lengths on request.



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Technical Data

General Data	
Fields of application	Industrial Ethernet
Design	Sensor/actuator connection line M12, A-coded
Shielding	shielded
Transmission technology	Copper
Color coding fiber/ wire(s)	brown, white, blue, black, gray
Color	black
Dimensions	
Dimension - Interface 1 (L x W x H)	50.5 mm x 15 mm x 15 mm
Dimension - Interface 1 (L x W x H)	1.988 in. x 0.591 in. x 0.591 in.
Dimension - Interface 2 (L x W x H)	50.5 mm x 15 mm x 15 mm
Dimension - Interface 2 (L x W x H)	1.988 in. x 0.591 in. x 0.591 in.
Cable length (m)	10 m
Cable length (ft)	32.81 ft
Labeling option	identification label carrier
Connections/interfaces	
Connector technology interface 1	M12-plug
Connector technology interface 2	M12-plug
Coding interface 1	A-coded
Coding interface 2	A-coded
Number of positions/contacts interface 1	5
Number of positions/contacts interface 2	5
Termination data, stranded wire (min. - max.)	
Conductor cross section, stranded wire	AWG 22/42
Conductor cross section, stranded wire	0.34 mm ²
Stranded wire structure	42x0.10mm
Cable sheath diameter (min. - max.)	
Cable sheath diameter	5.6 mm
Cable sheath diameter	0.22 in.



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Electrical characteristics

Current carrying capacity	4 A at 40 °C
Rated voltage	60 V
Insulation resistance	min. 100 MOhm

Mechanical data

Life - Number of mating cycles	min. 100
Torsion	+/-180°/m, >= 0.5 million cycles
Maximum operating bending radius	67.2 mm
Alternating bending radius	67 mm
acceleration	5 m/s ²

Materials and material properties

Material - Conductor	Cu (copper)
Material - Conductor Insulation	polypropylene
Material - Cable jacket	PUR
Material - Body interface 1	Plastics
Material - Body interface 2	Plastics
Material - Contact interface 1	CuSn
Material - Contact interface 2	CuSn
Material - Contact finish interface 1	Au (gold)
Material - Contact finish interface 2	Au (gold)
Material - Contact carriers interface 1	Plastics
Material - Contact carriers interface 2	Plastics
Material - Union nut interface 1	CuZnPb (brass)
Material - Union nut interface 2	CuZnPb (brass)
Material - Union nut finish interface 1	Ni (nickel)
Material - Union nut finish interface 2	Ni (nickel)
Flame retardancy	yes
Halogen free	yes
Oil resistance	yes
UV-resistance	yes
drag chain suitable	yes
torsional	yes
RoHS	compliant



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Environmental conditions

Temperature (min. - max.)

Temperature - Operating °C -40 °C - 90 °C

Temperature - Operating °F -40 °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

Particulate ingress interface 1 IP6X when plugged in

Liquid ingress/immersion interface 1 IPX5, IPX7, IPX8 when plugged in

Particulate ingress interface 2 IP6X when plugged in

Liquid ingress/immersion interface 2 IPX5, IPX7, IPX8 when plugged in

Pollution degree interface 1 3

Pollution degree interface 2 3

Approvals

UL listed (file no.) Approval pending

Standards/Regulations

Connectors for electronic equipment

circular connector DIN EN 61076-2-101

Classifications

ETIM 7.0 EC001855

ETIM 8.0 EC001855

ETIM 9.0 EC001855

Packing details

Type of packaging 1 pc(s) / plastic bag

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. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).



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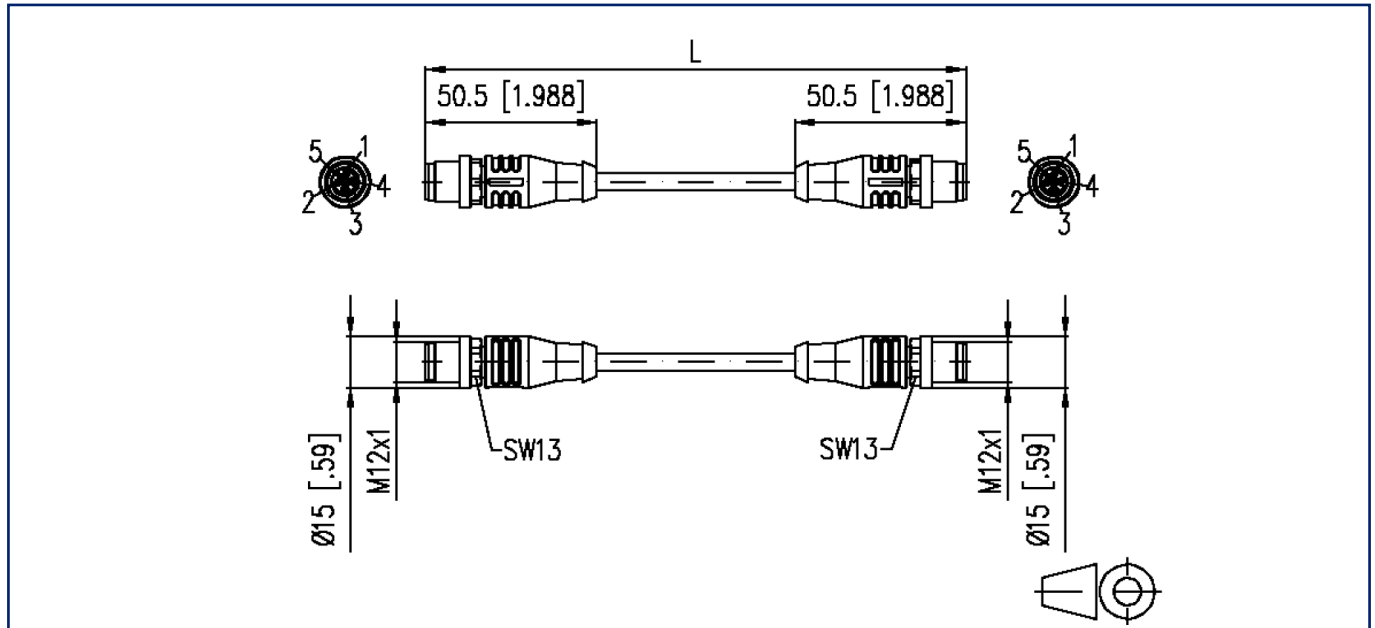
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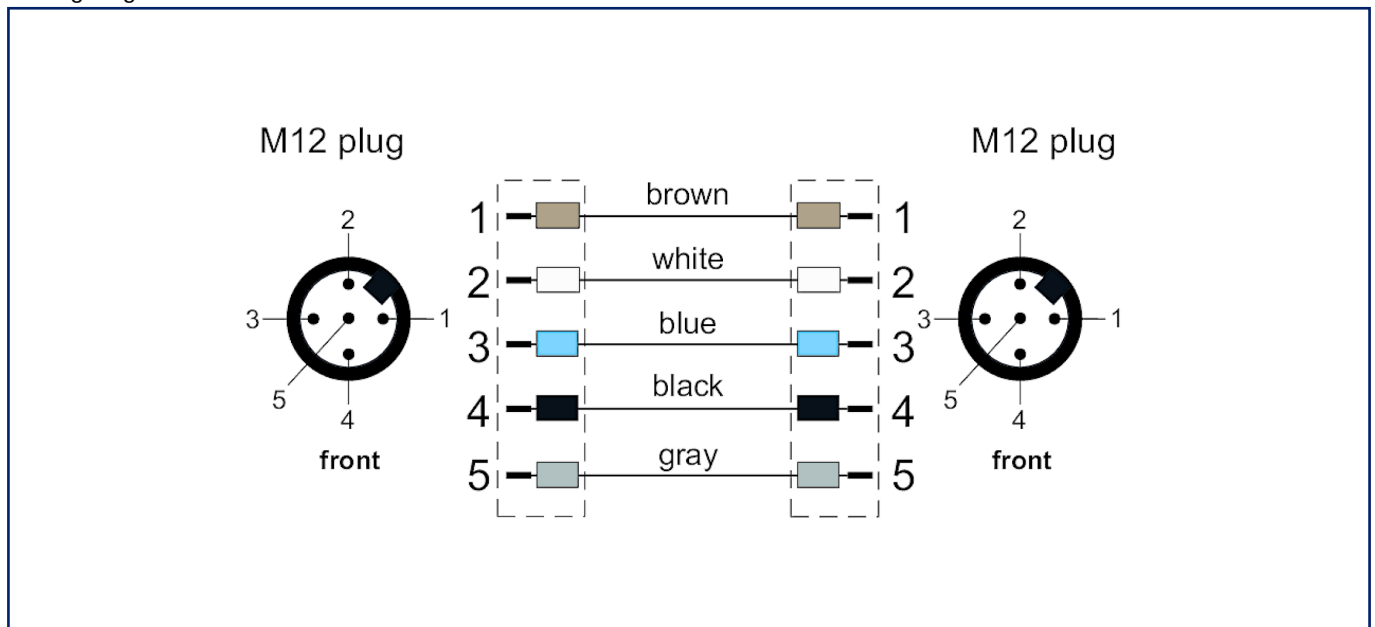
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Illustrations

Dimensional drawing



Wiring diagram



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Principle diagram

