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Data sheet

Connection line M12 X-coded, 2.0 m
M12 plug straight - M12 plug angled
8-pole, position of coding 315°

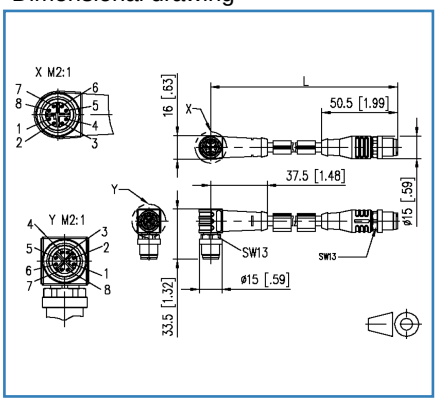
P/N 142M2X19020
EAN 4250184174929

2018-13-02

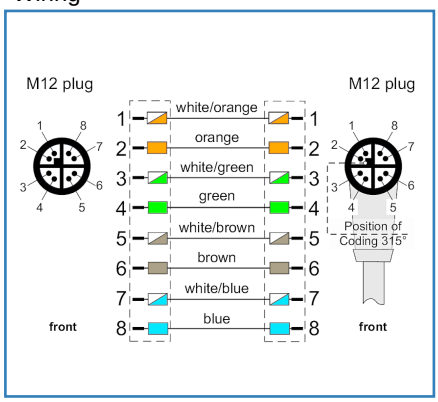
Illustrations



Dimensional drawing



Wiring



See enlarged drawings at the end of document

Product specification

- shielded M12-M12 Ethernet connection line
- Cat.6_A, 8-pole, X-coded
- side 1: M12 connector, straight
- side 2: M12 connector, angled, position of coding 315°
- extrusion-coated cable on M12 connectors
- stranded wires 4x2xAWG26/7 PiMF
- overall shield tinned copper braid
- 1:1 pin assignment
- green cable, PUR

- 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	Ethernet-Connection line
Shielding	shielded
Transmission technology	Copper
Cable Type	S/FTP
Number of twisting elements	4
Twisting element	Pair
Wiring	1 - 1
Color coding fiber/ wire(s)	white/orange, orange, white/green, green, white/brown, brown, white/blue, blue
Color	green
Dimensions	
Dimension - Interface 1 (L x W x H)	48.50 x 19.00 x 21.50 mm
Dimension - Interface 1 (L x W x H)	1.909 x 0.748 x 0.846 in.
Dimension - Interface 2 (L x W x H)	50.50 x 15.00 x 15.00 mm
Dimension - Interface 2 (L x W x H)	1.988 x 0.591 x 0.591 in.
Cable length (m)	2.00 m
Labeling option	identification label carrier
Transmission characteristics	
Category (ISO)	7
Connections/interfaces	
Connector technology interface 1	M12-plug
Connector technology interface 2	M12-plug
Coding interface 1	X-coded
Coding interface 2	X-coded
Number of positions/contacts interface 1	8
Number of positions/contacts interface 2	8
Termination data, stranded wire (min. - max.)	
Conductor cross section, stranded wire	AWG 26/7
Conductor cross section, stranded wire	0.141 mm²
Conductor diameter, stranded wire (bare copper)	0.483 mm
Conductor diameter, stranded wire (bare copper)	0.019 in.

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Technical Data

Connections/interfaces	
Cable sheath diameter (min. - max.)	
Cable sheath diameter	6.40 mm
Cable sheath diameter	0.236 in.
Electrical characteristics	
Current carrying capacity	0.5 A
Insulation resistance	min. 100 MOhm
Mechanical characteristics	
Maximum operating bending radius	64 mm
Maximum operating bending radius	2.52 in.
Maximum installation load	32 mm
Maximum installation load	1.26 in.
Shielding braid coverage	70 %
Materials and material properties	
Material - Conductor	Cu (copper)
Material - Conductor Insulation	Polyethylen
Material - Cable jacket	PUR
Material - Body interface 1	Plastics
Material - Body interface 2	Plastics
Material - Contact interface 1	CuZn (brass)
Material - Contact interface 2	CuZn (brass)
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	CuZn (brass)
Material - Union nut interface 2	CuZn (brass)
Material - Union nut finish interface 1	Ni (nickel)
Material - Union nut finish interface 2	Ni (nickel)
Material - Pair shield	plastic film
Material - Pair shield finish	Al (Aluminium)
Material - Main shield	Cu (copper) braid
Material - Main shield finish	Sn (tin)

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Technical Data

Materials and material properties	
Flame retardancy	yes
Halogen free	yes
Oil resistance	yes
UV-resistance	yes

Environmental conditions	
Temperature (min. - max.)	
Temperature - Operating °C	-30 - 90 °C
Temperature - Operating °F	-22 - 194 °F
Particulate ingress interface 1	IP6X when plugged in
Liquid ingress/immersion interface 1	IPX5, IPX7 when plugged in
Pollution degree interface 1	2
Pollution degree interface 2	2

Approvals	
RoHS	compliant

The product meets the following standards	
Connectors for electronic equipment	
Free and fixed connectors	IEC 60603-7-51
circular connector	DIN EN 61076-2-109
Multi-element metallic cables used in analogue and digital communication and control	DIN EN 50288-4-2
Test for vertical flame propagation for a single insulated wire or cable	DIN EN 60332-1-2
Measurement of smoke density of cables burning	IEC 61034

Classifications	
ETIM 5.0	EC002599
ETIM 6.0	EC002599

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Technical Data

Packing details

Type of packaging	1 pc(s) / plastic bag

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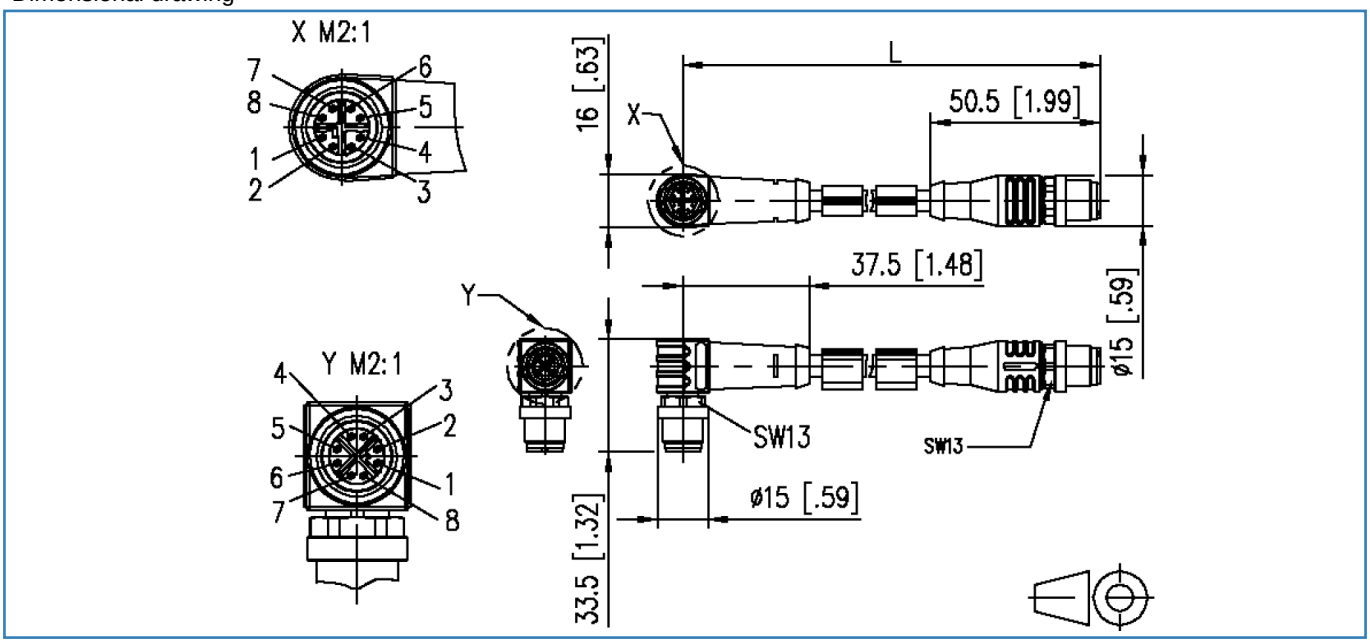
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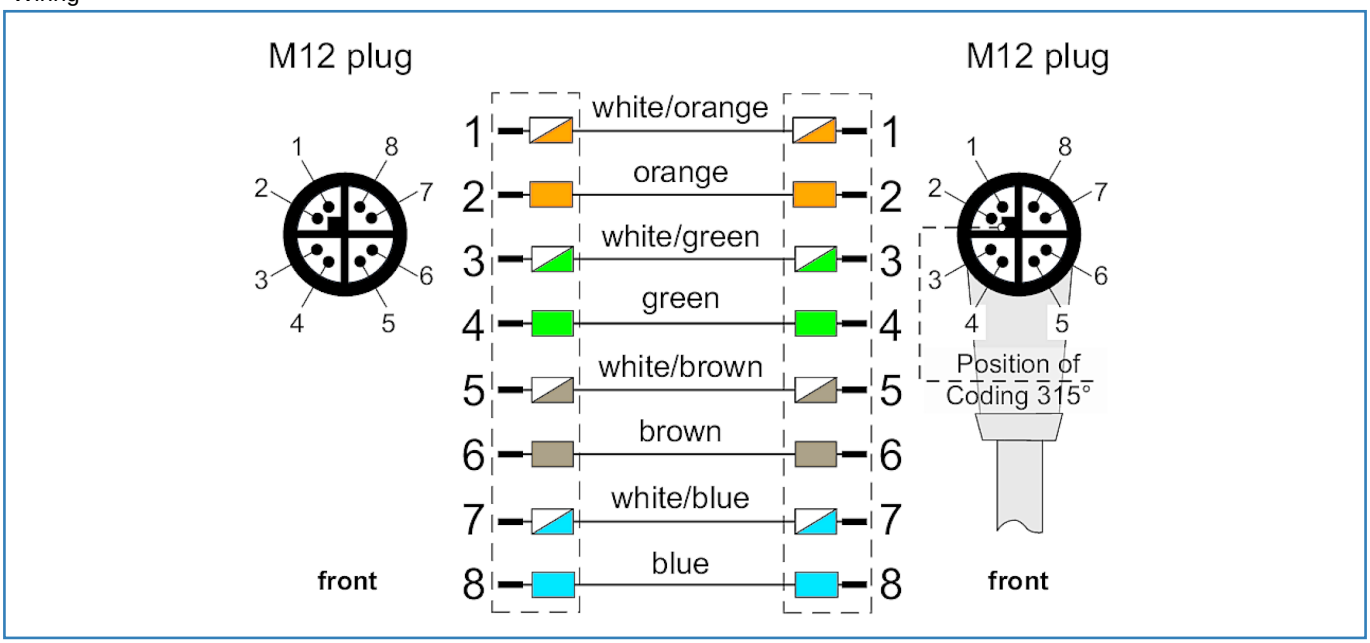
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Illustrations

Dimensional drawing



Wiring



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