

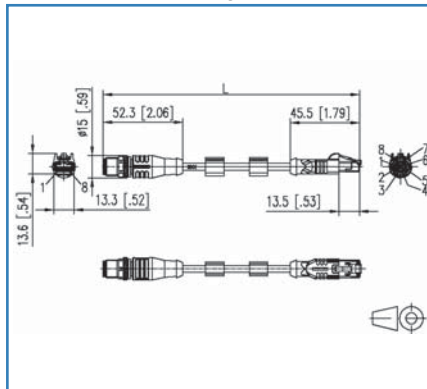
# Data sheet

## Connection line M12-RJ45 8-pole X-coded 10.0 m

### Illustrations



Dimensional drawing



Wiring



See enlarged drawings at the end of document

### Product specification

- shielded M12 to RJ45 Ethernet connection line
- Cat.6, 8-pole, X-coded
- M12-connector, straight to RJ45 connector
- connectors over molded
- stranded wires 4x2xAWG26/7 PiMF
- overall shield tinned copper braid
- pin assignment per T568B
- green cable, PUR
- standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request

# Data sheet

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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	T568B
Color coding fiber/ wire(s)	white/yellow, orange, white/green, green, white/brown, brown, white/blue, blue
Color	green
Dimensions	
Dimension - Interface 1 (L)	45.50 mm
Dimension - Interface 1 (L)	1.79 in.
Dimension - Interface 2 (L x W x H)	52.30 x 15.00 x 15.00 mm
Dimension - Interface 2 (L x W x H)	2.06 x 0.59 x 0.59 in.
Cable length (m)	10.00 m
Cable length (ft)	32.81 ft
Labeling option	identification label carrier

#### Transmission characteristics

Category (ISO)	6
Transmission rate up to 1 GBit (Fast Ethernet)	IEEE 802.3ab

#### Connections/interfaces

Connector technology interface 1	RJ45 plug
Connector technology interface 2	M12-plug
Coding interface 2	X-coded
Number of ports interface 2	1
Number of ports interface 2 equipped	1
Number of positions/contacts interface 1	8P/8C
Number of positions/contacts interface 2	8

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#### Connections/interfaces

Termination data, stranded wire (min. - max.)

Conductor cross section, stranded wire	AWG 26
Conductor cross section, stranded wire	0.141 mm <sup>2</sup>
Conductor diameter, stranded wire (bare copper)	0.483 mm
Conductor diameter, stranded wire (bare copper)	0.01902 in.

#### Electrical characteristics

Through resistance	max. 5 mOhm
Insulation resistance	min. 10 <sup>8</sup> MOhm

#### Materials and material properties

Material - Conductor	Cu (copper)
Material - Cable jacket	PUR
Material - Plug housing interface 1	PVC (polyvinyl chloride)
Material - Body interface 2	Plastics
Material - Contact interface 1	CuSn (tin bronze)
Material - Contact interface 2	CuZn (brass)
Material - Contact finish interface 2	Au (gold)
Material - Contact carriers interface 2	Plastics
Material - Union nut interface 2	CuZn (brass)
Material - Union nut finish interface 2	Ni (nickel)
Material - Shield interface 1	CuSn (tin bronze)
Material - Main shield	Cu (copper) braid
Material - Main shield finish	Sn (tin)
Flame retardancy	yes

#### Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-20 - 75 °C
Temperature - Storage °F	-4 - 167 °F
Particulate ingress interface 1	IP2X
Liquid ingress/immersion interface 1	IPX0
Particulate ingress interface 2	IP6X when plugged in
Liquid ingress/immersion interface 2	IPX7 when plugged in
Pollution degree interface 1	1

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#### Environmental conditions

Pollution degree interface 2	3/2
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#### Approvals

RoHS	compliant
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#### The product meets the following standards

Generic cabling systems

General requirements	ISO/IEC 11801-1   DIN EN 50173-1
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Multi-element metallic cables used in analogue and digital communication and control	DIN EN 50288-4-1
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Test for vertical flame propagation for a single insulated wire or cable	DIN EN 60332-1-2
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Measurement of smoke density of cables burning	DIN EN 61034
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#### Classifications

ETIM 5.0	EC002599
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#### Packing details

Type of packaging	1 pc(s) / plastic bag
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Packaging unit - Weight (gram)	530.00 g
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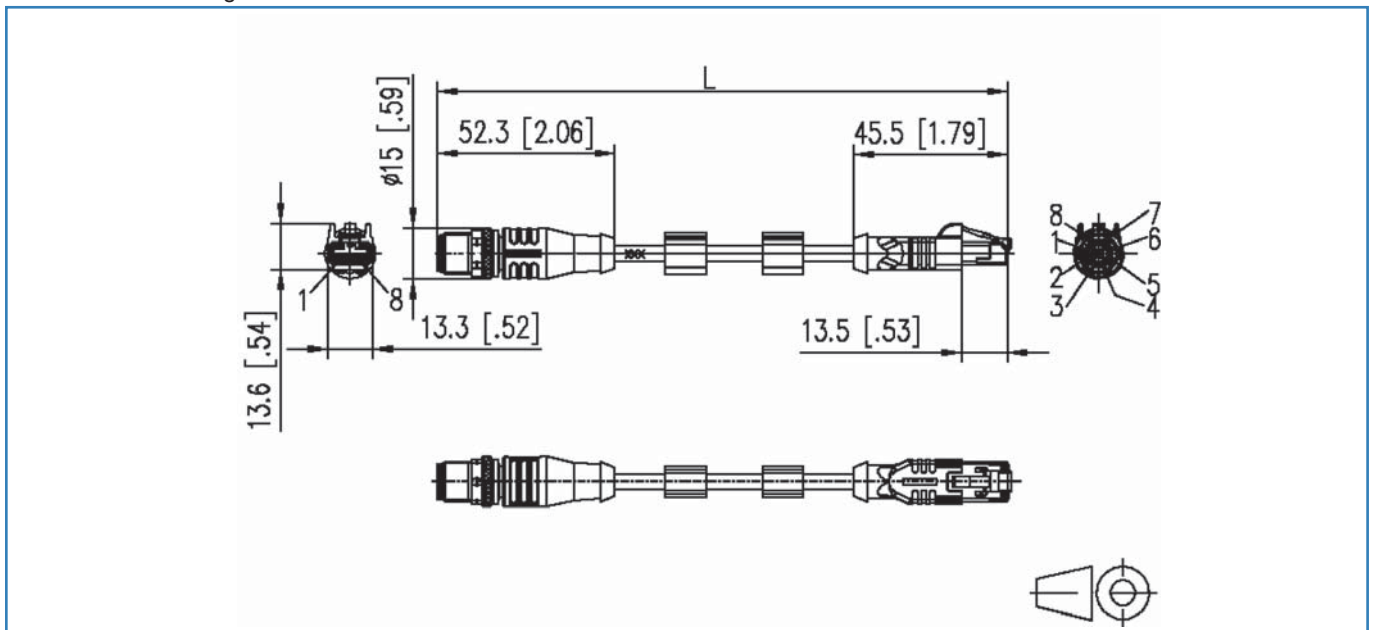
Packaging unit - Weight (pound)	1.17 lb
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