

Data sheet

Connection line M12-jack - RJ45-plug 8-pole X-coded 3.0 m

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P/N

142M2X25030

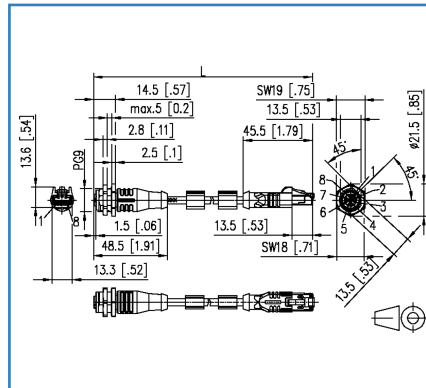
EAN 4251122185847

2017-05-01

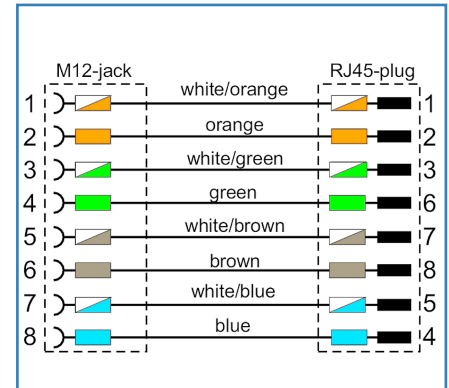
Illustrations



Dimensional drawing



Wiring



See enlarged drawings at the end of document

Product specification

- shielded M12-jack to RJ45-plug connection line
- Cat.6, 8-pole
- M12-jack X-coded 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



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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

green

Dimensions

Dimension - Interface 1 (L x W x H)

45.50 x 13.30 x 13.60 mm

Dimension - Interface 1 (L x W x H)

1.791 x 0.524 x 0.535 in.

Dimension - Interface 2 (L x W x H)

48.50 x 19.05 x 21.50 mm

Dimension - Interface 2 (L x W x H)

1.909 x 0.75 x 0.846 in.

Cable length (m)

3.00 m

Cable length (ft)

9.84 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-jack

Coding interface 2

X-coded

Number of positions/contacts interface 1

8P/8C

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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Electrical characteristics

Through resistance	max. 5 mOhm
Insulation resistance	min. 10 ⁸ 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
Temperature - Operating °C	-20 - 75 °C
Temperature - Operating °F	-4 - 167 °F
Temperature - Installation °C	-20 - 60 °C
Temperature - Installation °F	-4 - 140 °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
Pollution degree interface 2	3



P | Cabling

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Technical Data

Approvals

RoHS compliant

The product meets the following standards

Generic cabling systems

General requirements ISO/IEC 11801-1 | DIN EN 50173-1

Multi-element metallic cables used in analogue and digital communication and control DIN EN 50288-4-1

Test for vertical flame propagation for a single insulated wire or cable DIN EN 60332-1-2

Measurement of smoke density of cables burning DIN EN 61034

Classifications

ETIM 6.0 EC002599

Packing details

Type of packaging 1 pc(s) / plastic bag



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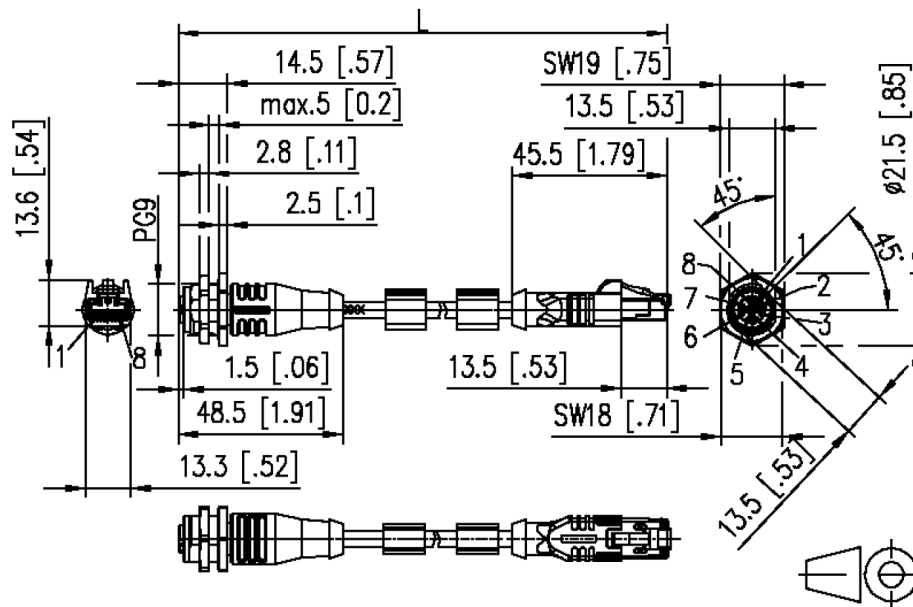
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Illustrations

Dimensional drawing



Wiring



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