

## Data sheet

**Connection line M12 jack straight - RJ45 plug straight**  
**4-pole, D-coded 2.0 m**

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P/N

142M4D25020

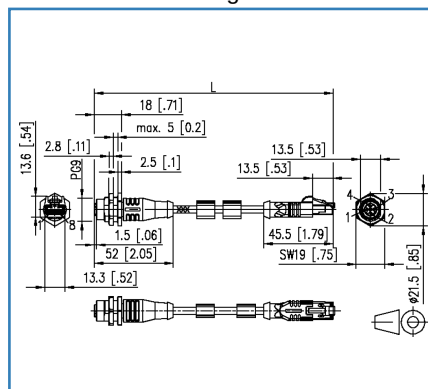
EAN 4251394600789

2018-26-03

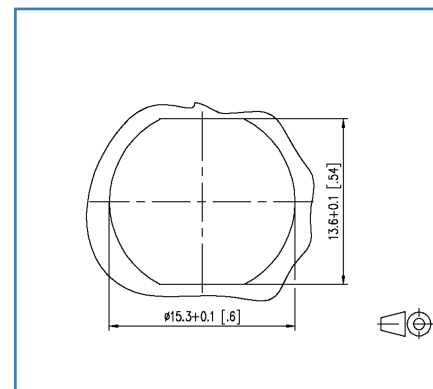
## Illustrations



Dimensional drawing



Cut-out



See enlarged drawings at the end of document

## Product specification

- shielded M12-jack to RJ45-plug Ethernet connection line
- Cat.5e, 4-pole, D-coded (IEC 61076-2-101)
- side 1: M12 jack, straight
- side 2: RJ45 plug, straight
- extrusion-coated cable on connectors
- stranded wires 1x4xAWG26/19
- overall shield tinned copper braid
- pin assignment per Profinet
- green cable, PUR
- standard variants: 1.0 m, 2.0 m, 3.0 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/UTP

##### Number of twisting elements

4

##### Twisting element

single core

##### Wiring

Profinet

##### Color coding fiber/ wire(s)

white/orange, white/blue, orange, blue

##### Color

green

##### Dimensions

###### Dimension - Interface 1 (L)

52.00 mm

###### Dimension - Interface 1 (L)

2.047 in.

###### Dimension - Interface 2 (L)

45.50 mm

###### Dimension - Interface 2 (L)

1.791 in.

##### Cable length (m)

2.00 m

##### Weight

31 kg/km

##### Labeling option

identification label carrier

#### Transmission characteristics

##### Category (ISO)

5e

#### Connections/interfaces

##### Connector technology interface 1

M12-jack

##### Connector technology interface 2

RJ45 plug

##### Coding interface 1

data systems technology tool

##### Number of positions/contacts interface 1

4

##### Number of positions/contacts interface 2

8P/4C

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

###### Conductor cross section, stranded wire

AWG 26/19



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### Technical Data

#### Connections/interfaces

Cable sheath diameter (min. - max.)

Cable sheath diameter 4.80 mm

Cable sheath diameter 0.189 in.

#### Electrical characteristics

Current carrying capacity max. 4, max. 1 A

Insulation resistance min. 100 MOhm

#### Mechanical characteristics

Maximum operating bending radius 19 mm

Maximum operating bending radius 0.748 in.

Maximum installation load 36 mm

Maximum installation load 1.417 in.

Shielding braid coverage 85 %

#### 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 (tin bronze)

Material - Contact interface 2 CuSn (tin bronze)

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 finish interface 1 Ni (nickel)

Material - Main shield Cu (copper) braid

Material - Main shield finish Sn (tin)

Flame retardancy yes

Halogen free yes

Silicone free yes

Oil resistance yes



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### Technical Data

#### Materials and material properties

UV-resistance yes

#### Environmental conditions

Temperature (min. - max.)

Temperature - Operating °C -30 - 70 °C

Temperature - Operating °F -22 - 158 °F

Particulate ingress interface 1 IP6X when plugged in

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

Particulate ingress interface 2 IP2X im gesteckten Zustand

Liquid ingress/immersion interface 2 IPX0 when plugged in

Pollution degree interface 1 3

Pollution degree interface 2 1

#### Approvals

RoHS compliant

#### The product meets the following standards

Profinet yes

Connectors for electronic equipment

circular connector DIN EN 61076-2-101

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

#### Packing details

Type of packaging 1 pc(s) / plastic bag



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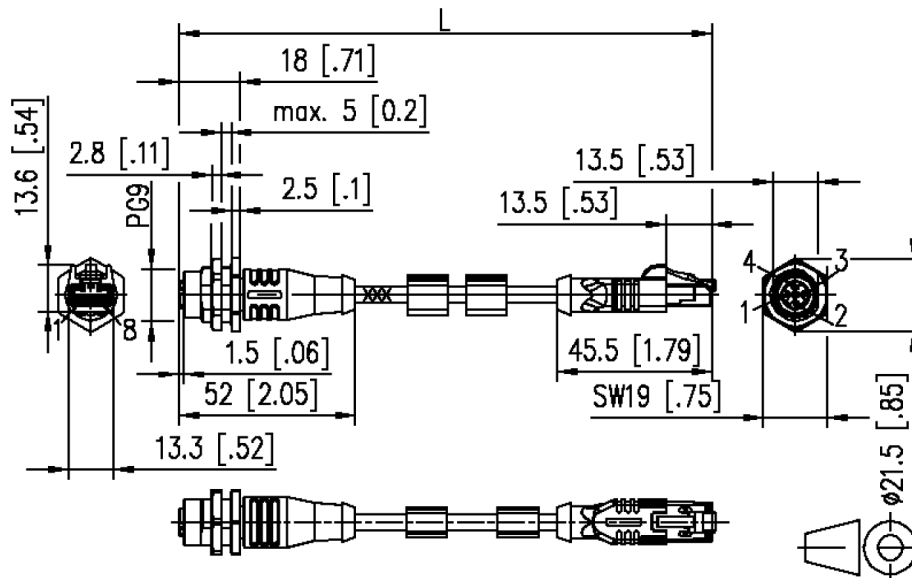
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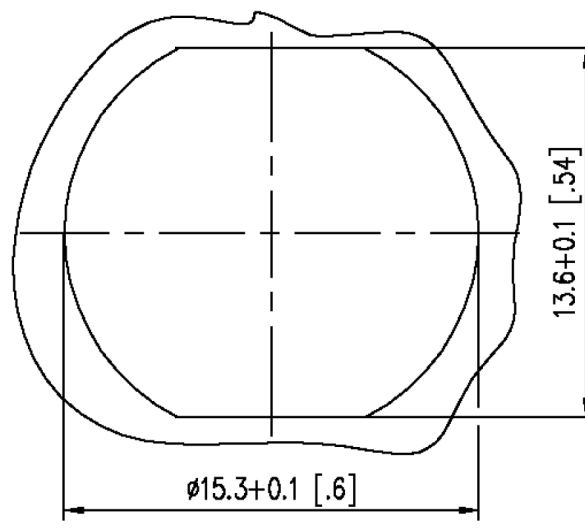
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## Illustrations

## Dimensional drawing



## Cut-out



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## Connection line M12 jack straight - RJ45 plug straight 4-pole, D-coded 2.0 m

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## Illustrations

### Wiring

