

**Connection line M12, D-coded 1.0 m
M12 plug angled - RJ45 plug straight
drag chain suitable, capable of torsion, 4-pole, green**

P/N

142M4D95010

EAN 4251394600987

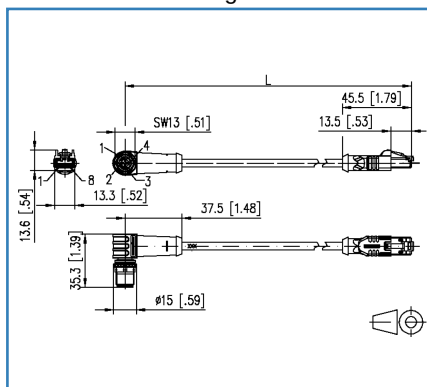
2019/03/21

Version: A

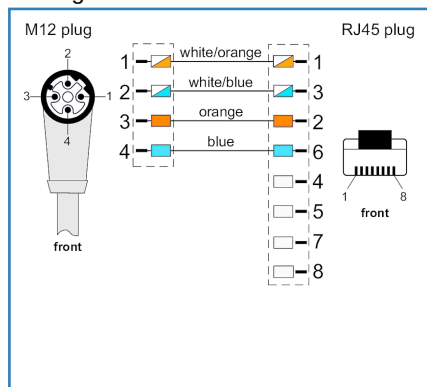
Illustrations



Dimensional drawing



Wiring



See enlarged drawings at the end of document

Product specification

- shielded M12 to RJ45 Ethernet connection line
 - Cat.5e, 4-pole, D-coded (IEC 61076-2-101)
 - side 1: M12 plug, angled
 - side 2: RJ45 plug, straight
 - extrusion-coated cable on connectors
 - stranded wires 4x1xAWG26/19
 - overall shield: tinned copper braid
 - pin assignment per Profinet
 - green cable, PUR
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- 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
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	35.3 mm x 45 mm x 15 mm
Dimension - Interface 1	1.389 in. x 1.772 in. x 0.591 in.
Dimension - Interface 2	45.5 mm x 13.3 mm x 13.6 mm
Dimension - Interface 2	1.791 in. x 0.524 in. x 0.535 in.
Cable length (m)	1 m
Cable length (ft)	3.28 ft
Weight	31 kg/km
Labeling option	identification label carrier

Transmission characteristics	
Category (ISO)	5e
Connections/interfaces	
Connector technology interface 1	M12-plug
Connector technology interface 2	RJ45 plug
Coding interface 1	D-coded
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	26/19

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Connections/interfaces

Cable sheath diameter (min. - max.)

Cable sheath diameter	4.8 mm
Cable sheath diameter	0.189 in.

Electrical characteristics

Current carrying capacity	4, 1
Insulation resistance	min. 100 MOhm
Capacitance at 800 Hz	51 pF/m

Mechanical characteristics

Torsion	min. $\pm 30^\circ/\text{m}$
Maximum operating bending radius	19 mm
Maximum operating bending radius	0.748 in.
Maximum installation load	36 mm
Maximum installation load	1.417 in.
Number of alternating bending cycles	5 million bending cycles
Alternating bending radius	36 mm
velocity	3 m/s
acceleration	5 m/s ²
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	CuZn (brass)
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)



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Materials and material properties

Material - Main shield	Cu (copper) braid
Material - Main shield finish	Sn (tin)
Flame retardancy	yes
Halogen free	yes
Silicone free	yes
Oil resistance	yes
UV-resistance	yes
schleppkettentauglich	yes
capable of torsion	yes

Environmental conditions

Temperature (min. - max.)	
Temperature - Operating Â°C	-30 °C - 70 °C
Temperature - Operating Â°F	-22 °F - 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 when plugged in
Liquid ingress/immersion interface 2	IPX0 when plugged in
Pollution degree interface 1	3
Pollution degree interface 2	1

The product meets the following standards

Profinet	yes
Test for vertical flame propagation for a single insulated wire or cable	IEC 60332-1-2

Packing details

Type of packaging	1 pc(s) / plastic bag
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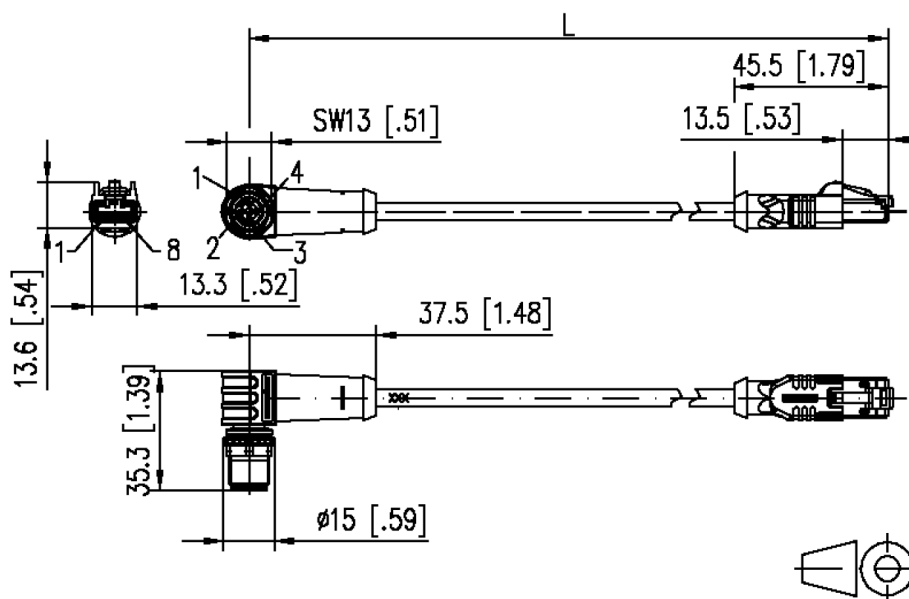
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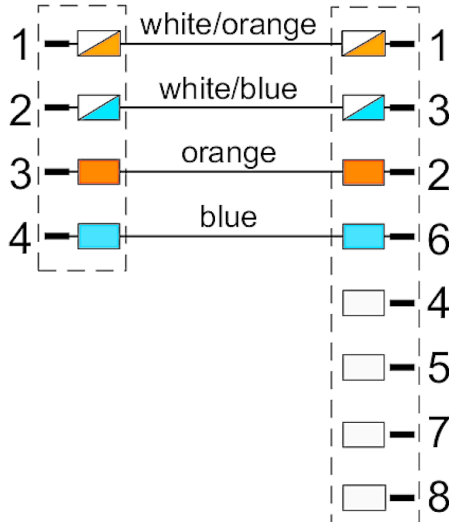
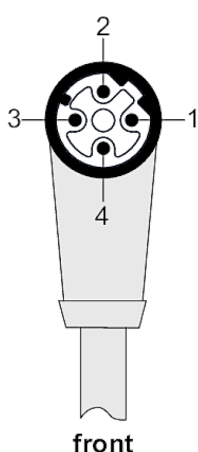
Illustrations

Dimensional drawing



Wiring

M12 plug



RJ45 plug

