

Data sheet

Page 1/8

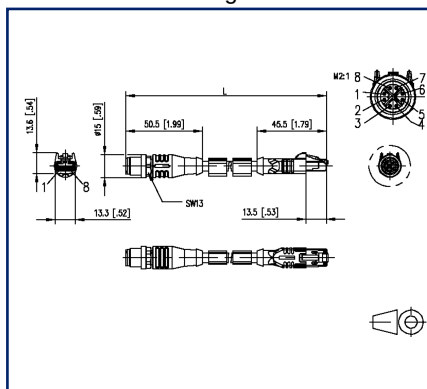
**M12 Industrial Ethernet cable, X-coded, 1.0 m,
M12 plug straight - RJ45 plug straight, PUR**

P/N
142M2X15010
EAN 4250184158394
2026/09/03
Version: BC

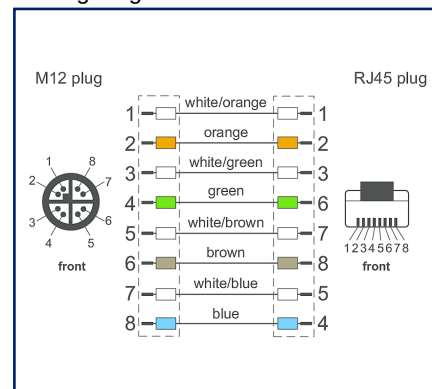
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

Shielded PUR cable for safe and industrial data transmission in automation and fieldbus technology. The cable meets the requirements of ULStyle 20963 and complies with Cat7 (electrical properties based on EN50288-4-2). Materials and design allow increased mechanical stress (abrasion, bending, vibration, etc.) of the cable. Special properties: UL style 20963, seawater resistant, recyclable, LABS free, RoHS compliant, acid and alkali resistant, UV resistant, hydrolysis resistant, halogen free, oil resistant, high flexibility, no corrosive gases, microbe resistant, no fire propagation.

- Standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m.
- Other cable lengths on request.

Data sheet

Page 2/8

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Technical Data

General Data	
Fields of application	Industrial Ethernet harsh environment
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/orange, orange, white/green, green, white/brown, brown, white/blue, blue
Color	green
Dimensions	
Dimension - Interface 1 (L x W x H)	50.5 mm x 15 mm x 15 mm
Dimension - Interface 1 (L x W x H)	1.988 in. x 0.591 in. x 0.591 in.
Dimension - Interface 2 (L x W x H)	45.5 mm x 13.3 mm x 13.6 mm
Dimension - Interface 2 (L x W x H)	1.791 in. x 0.524 in. x 0.535 in.
Cable length (m)	1 m
Cable length (ft)	3.28 ft
Labeling option	identification label carrier

Transmission characteristics

Category (ISO)	6 _A
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Connections/interfaces

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



Data sheet

Page 3/8

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Connections/interfaces

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

Conductor cross section, stranded wire	AWG 26/7
Conductor diameter, stranded wire (bare copper)	0.48 mm
Conductor diameter, stranded wire (bare copper)	0.019 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	6.4 mm
Cable sheath diameter	0.252 in.

Electrical characteristics

Current carrying capacity	0.5 A at 40 °C
Rated voltage	60 V DC
Insulation resistance	min. 100 MOhm

Mechanical data

Bending radius without load	min. 64 mm
Bending radius without load	min. 2.52 in.
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

Cable	
Material - Conductor	Cu (copper)
Material - Conductor Insulation	Polyethylene
Material - Cable jacket	PUR
Flame retardancy	yes



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Page 4/8

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Materials and material properties

Interface 1

Material - Body interface 1	Plastics
Material - Contact interface 1	CuZnPb (brass)
Material - Contact finish interface 1	Au (gold)
Material - Contact carriers interface 1	Plastics
Material - Union nut interface 1	CuZnPb (brass)
Material - Union nut finish interface 1	Ni (nickel)

Interface 2

Material - Body interface 2	Plastics
Material - Contact interface 2	CuZnPb (brass)
Material - Contact finish interface 2	Au (gold)
Material - Contact carriers interface 2	Plastics
Material - Pair shield	plastic film
Material - Pair shield finish	Al (Aluminium)
Material - Main shield	Cu (copper) braid
Material - Main shield finish	Sn
Oil resistance	yes
UV-resistance	yes
RoHS	compliant

Environmental conditions

Temperature (min. - max.)

Temperature - Operating °C	-40 °C - 80 °C
Temperature - Operating °F	-40 °F - 176 °F
Particulate ingress interface 1	IP6X when plugged in
Liquid ingress/immersion interface 1	IPX5, IPX7 when plugged in
Particulate ingress interface 2	IP2X when plugged in
Liquid ingress/immersion interface 2	IPX0 when plugged in
Pollution degree interface 1	2
Pollution degree interface 2	1



Data sheet

Page 5/8

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Approvals

UL listed (file no.)



DUXR.E178484

Standards/Regulations

Generic cabling systems

General requirements

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

Profinet

yes

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

IEC 60332-1-2

Measurement of smoke density of cables burning

IEC 61034

Determination of the halogen acid gas content

IEC 60754-1

Insulating and sheathing materials of cables and insulated wire - General test methods

DIN EN 60811-2-1

Copper and copper alloys - Drawn round copper wire for the production of electrical conductors

DIN EN 13602 Cu-ETP-A... | DIN EN 13602 Cu-ETP-A...-B

Classifications

ETIM 7.0

EC002599

ETIM 8.0

EC002599

ETIM 9.0

EC002599

ETIM 10.0

EC002599

Packing details

Type of packaging

1 pc(s) / plastic bag



Data sheet

Page 6/8

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Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way.



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Page 8/8

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Principle diagram

