

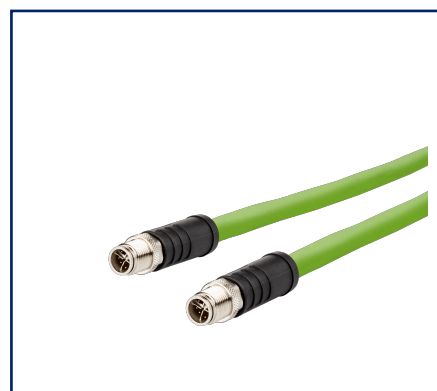
Data sheet

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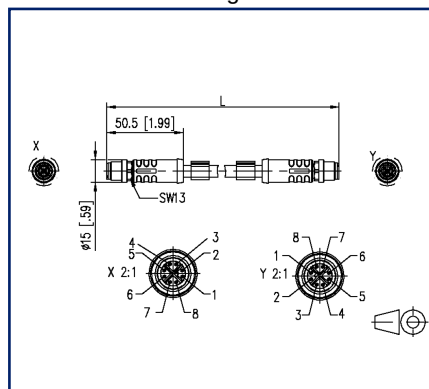
**M12 Industrial Ethernet cable, X-coded, 5.0 m,
M12 plug straight - M12 plug straight,
torsion, PUR**

P/N
142M7X11050
EAN 4250184199328
2026/09/04
Version: S

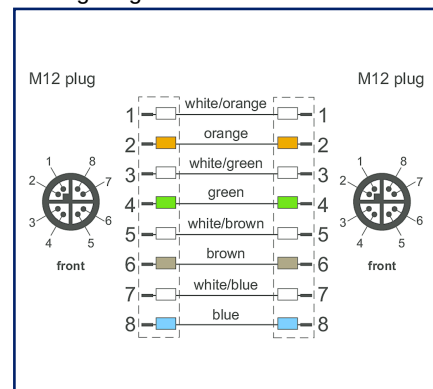
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

PROFINET 4x2xAWG24/7 Type C torsion-resistant high-speed data cable of transmission category Cat 7. The cable is halogen-free, flame-retardant, oil-resistant and resistant to abrasion due to the PUR outer jacket. It is ideally suited for use in industrial environments. High-quality shielding ensures high transmission reliability of the data in electromagnetically stressed areas. Suitable for use in dry and humid rooms. Special properties: c(UL)us type CMX according to UL 444, UL AWM styles 11117 and 21576 (1000 V, 80 °C) according to UL 758, flame retardant, recyclable, LABS-free, RoHs compliant, ozone resistant, UV resistant, torsion resistant, halogen free, oil resistant.

- 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 harsh environment
Design	Ethernet-Connection line
Shielding	shielded
Transmission technology	Copper
Cable Type	S/FTP
Number of twisting elements	4
Twisting element	Pair
Wiring	1 - 1
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)	50.5 mm x 15 mm x 15 mm
Dimension - Interface 2 (L x W x H)	1.988 in. x 0.591 in. x 0.591 in.
Cable length (m)	5 m
Cable length (ft)	16.4 ft

Transmission characteristics

Category (ISO)	6 _A
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Connections/interfaces

Connector technology interface 1	M12-plug
Connector technology interface 2	M12-plug
Coding interface 1	X-coded
Coding interface 2	X-coded
Number of positions/contacts interface 1	8
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 24/7
Conductor diameter, stranded wire (bare copper)	0.2 mm
Conductor diameter, stranded wire (bare copper)	0.008 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	9.4 mm
Cable sheath diameter	0.37 in.

Electrical characteristics

Current carrying capacity	0.5 A at 40 °C
Insulation resistance	min. 100 MOhm

Mechanical data

Life - Number of mating cycles	min. 100
Torsion	at least 5.000.000 cycles
Maximum operating bending radius	75 mm
Maximum operating bending radius	2.953 in.
Maximum installation load	141 mm
Maximum installation load	5.551 in.
Shielding braid coverage	85 %

Materials and material properties

Cable

Material - Conductor	Cu (copper)
Material - Conductor Insulation	foamed Polyolefin
Material - Cable jacket	PUR
Flame retardancy	according to IEC 60332-1-2

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)



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Materials and material properties

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 - Union nut interface 2	CuZnPb (brass)
Material - Union nut finish interface 2	Ni (nickel)
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
torsional	yes
RoHS	compliant

Environmental conditions

Temperature (min. - max.)

Temperature - Operating °C	-30 °C - 90 °C
Temperature - Operating °F	-22 °F - 194 °F
Particulate ingress interface 1	IP6X when plugged in
Liquid ingress/immersion interface 1	IPX5, IPX7 when plugged in
Particulate ingress interface 2	IP6X when plugged in
Liquid ingress/immersion interface 2	IPX5, IPX7 when plugged in
Pollution degree interface 1	2
Pollution degree interface 2	2

Approvals

UL listed (file no.)	Approval pending
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Standards/Regulations

Generic cabling systems

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

Connectors for electronic equipment

circular connector DIN EN 61076-2-109

Multi-element metallic cables used in analogue and digital communication and control

DIN EN 50288-5-2

Test for vertical flame propagation for a single insulated wire or cable

IEC 60332-1-2

Determination of the halogen acid gas content

IEC 60754-1

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

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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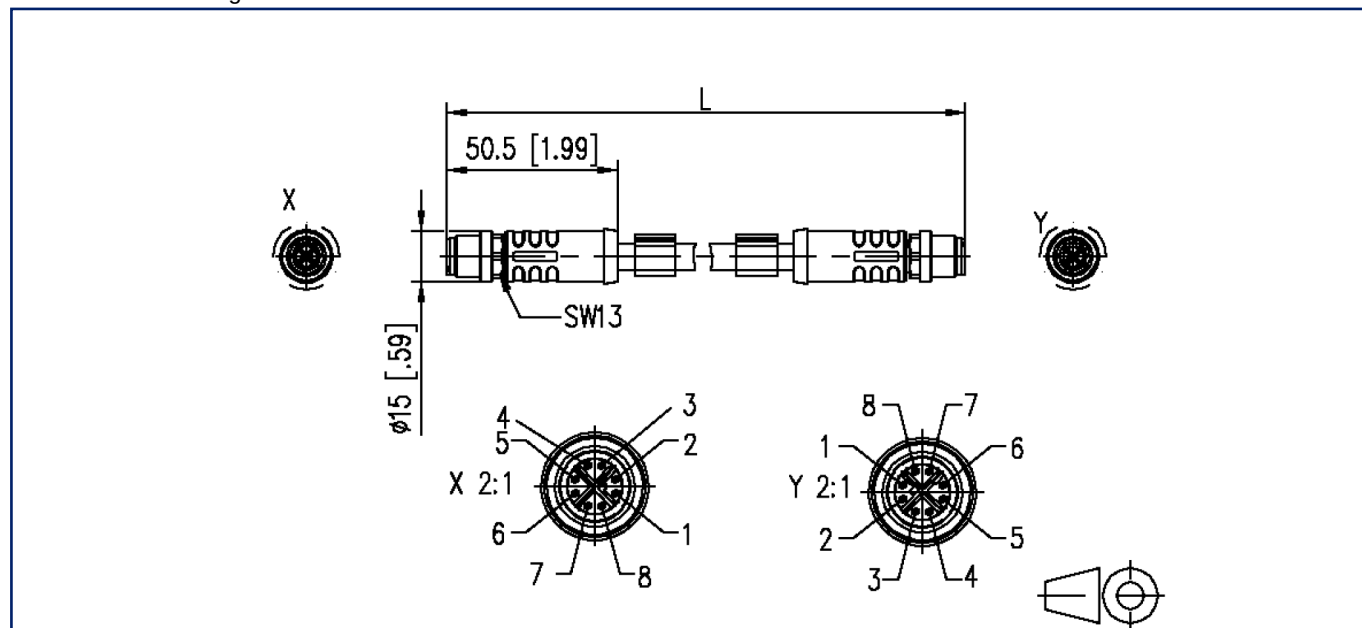
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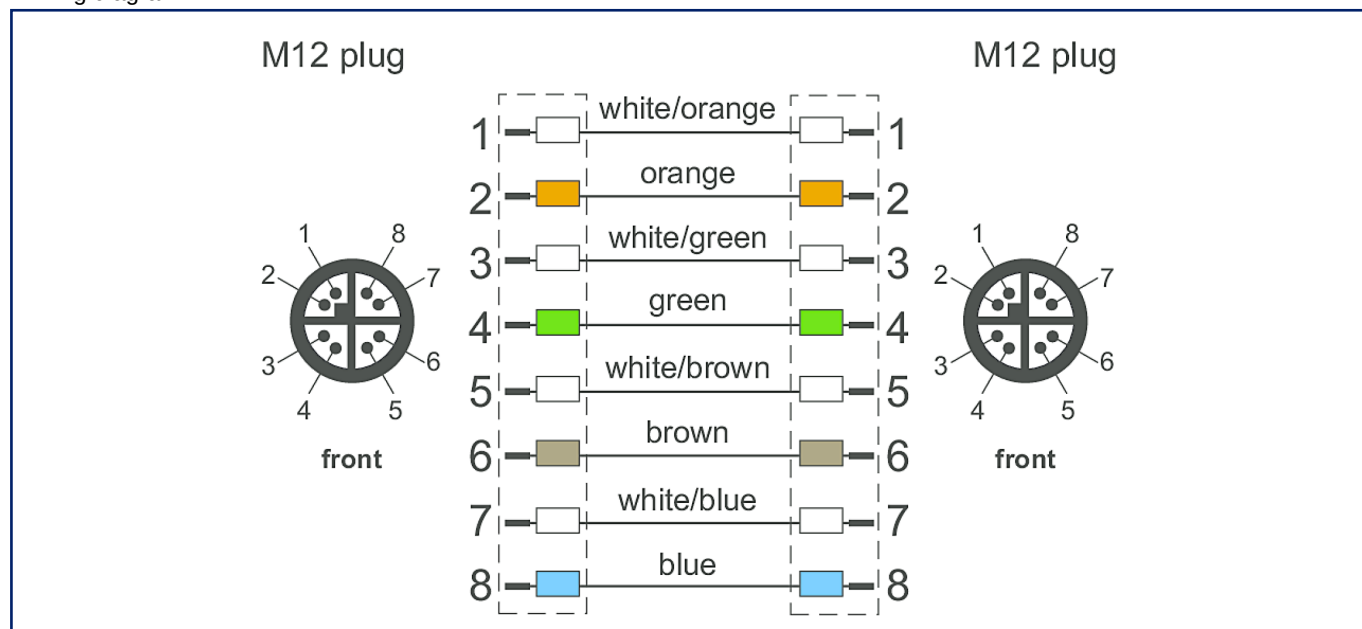
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Dimensional drawing



Wiring diagram



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Principle diagram

