Data sheet

M12 Industrial Ethernet cable, D-coded, 10.0 m, M12 plug straight - M12 plug straight, drag chain, PUR

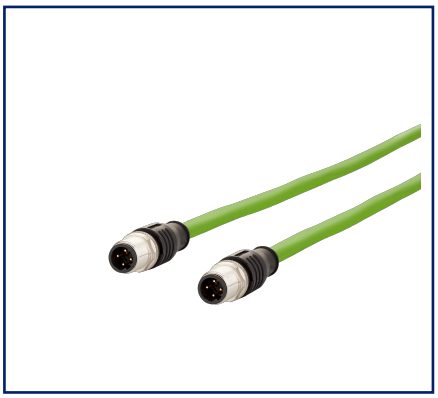
P/N 142M1D11100

EAN 4250184139478

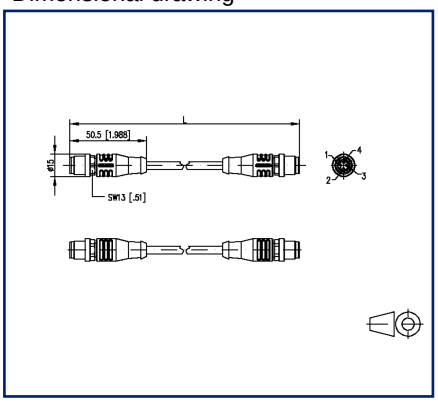
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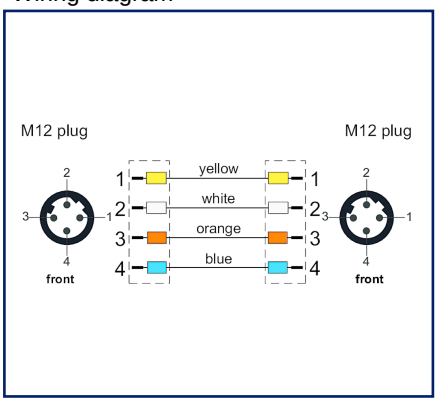
Illustrations



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 is CMX-verified and complies with Cat5e (electrical properties based on EN50288-2-1). Materials and constructional design allow increased mechanical stress (abrasion, bending, vibrations etc.) of the cable. Use in drag chains with up to 3 million bending cycles is possible without risk. Special properties: flame retardant, seawater resistant, recyclable, LABS-free, RoHs compliant, acid and alkali resistant, ozone resistant, UV resistant, hydrolysis resistant, drag chain compatible, halogen free, oil resistant, high flexibility, microbe resistant, UN ECER118, PROFINET Type C.

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

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P/N 142M1D11100
EAN 4250184139478
2026/09/29
Version: BW

Technical Data

General Data	
Fields of application	Industrial Ethernet
Design	Ethernet-Connection line
Cable length (m)	10 m
Cable length (ft)	32.81 ft
Cable	
Cable Type	SF/FTP
Wiring	Profinet
Wire color	yellow, white, orange, blue
Color - cable jacket	green
Transmission properties	5e
Connection 1	
Shielding	shielded
Dimension (L x W x H)	50.5 mm x 15 mm x 15 mm
Dimension (L x W x H)	1.988 in. x 0.591 in. x 0.591 in.
Connection 2	
Shielding	shielded
Dimension (L x W x H)	50.5 mm x 15 mm x 15 mm
Dimension (L x W x H)	1.988 in. x 0.591 in. x 0.591 in.

Connections/interfaces	
Cable	
Conductor cross section AWG	AWG 22/7
Conductor diameter (mm)	0.75 m
Conductor diameter (inch)	0.03 in.
Outer diameter cable jacket (mm)	6.5 mm
Outer diameter cable jacket (inch)	0.256 in.
Connection 1	
Connector type	M12-plug
Coding	D-coded
Type of plug contact, field side	Male (plug)
Cable feed arrangement, field side	straight
Number of poles	4
Pin Assignment	1 YE, 2 WH, 3 OG, 4 BU

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EAN 4250184139478
2026/09/29
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Technical Data

Connections/interfaces	
Connection 1	
Latching lever protection	no
Color of the cable boot	black
Connection 2	
Connector type	M12-plug
Coding	D-coded
Type of plug contact, field side	Male (plug)
Cable feed arrangement, field side	straight
Number of poles	4
Pin Assignment	1 YE, 2 OG, 3 WH, 4 BU
Latching lever protection	no
Color of the cable boot	black
Electrical characteristics	
Connection 1	
Current carrying capacity per pin (at 40 °C)	4 A
Connection 2	
Current carrying capacity per pin (at 40 °C)	4 A
Mechanical data	
Cable	
drag chain suitable	yes
Bending radius (fixed)	26 mm
Bending radius (moved)	52 mm
Number of alternating bending cycles (mechanical resistance) at:	3 million bending cycles
Alternating bending radius	100 mm
velocity	4 m/s
acceleration	4 m/s²
Connection 1	
Mechanical life	min. 100 mating cycles
Connection 2	
Mechanical life	min. 100 mating cycles

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2026/09/29
Version: BW

Technical Data

Materials and material properties

Cable	
Material - Cable jacket	PUR
Material - Wire insulation	FRNC
Flame retardancy	yes, according to IEC 60332-1-2
Connection 1	
Material - Contact	CuZnPb (brass)
Material - Contact surface	Au (gold)
Material - Contact carrier	Plastics, PA, BK
Material - Body	Plastics, TPU, BK
Material - Cap nut	Metal, CuZn, nickel-plated
Connection 2	
Material - Contact	CuZnPb (brass)
Material - Contact surface	Au (gold)
Material - Contact carrier	Plastics, PA, BK
Material - Body	Plastics, TPU, BK
Material - Cap nut	Metal, CuZn, nickel-plated

Environmental conditions

Cable	
Temperature range (fixed)	-30 °C - max. 70 °C
Temperature range (fixed)	-22 °F - 158 °F
Connection 1	
	-40 °C
	-40 °F
Protection category (mounted)	IP67 (-30 °C...+90 °C), IP65 (-40 °C...+90 °C)
Connection 2	
Protection category (mounted)	IP67 (-30 °C...+90 °C), IP65 (-40 °C...+90 °C)

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EAN 4250184139478
2026/09/29
Version: BW

Technical Data

Standards/Regulations

Profinet	Type C

Classifications

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.

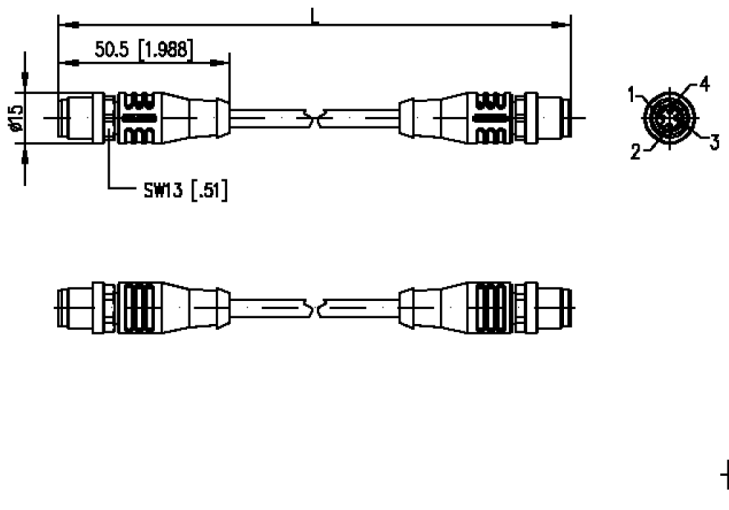
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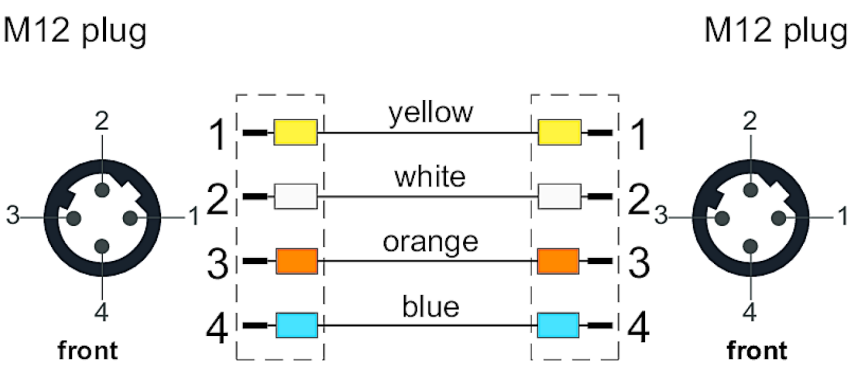
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Illustrations

Dimensional drawing



Wiring diagram



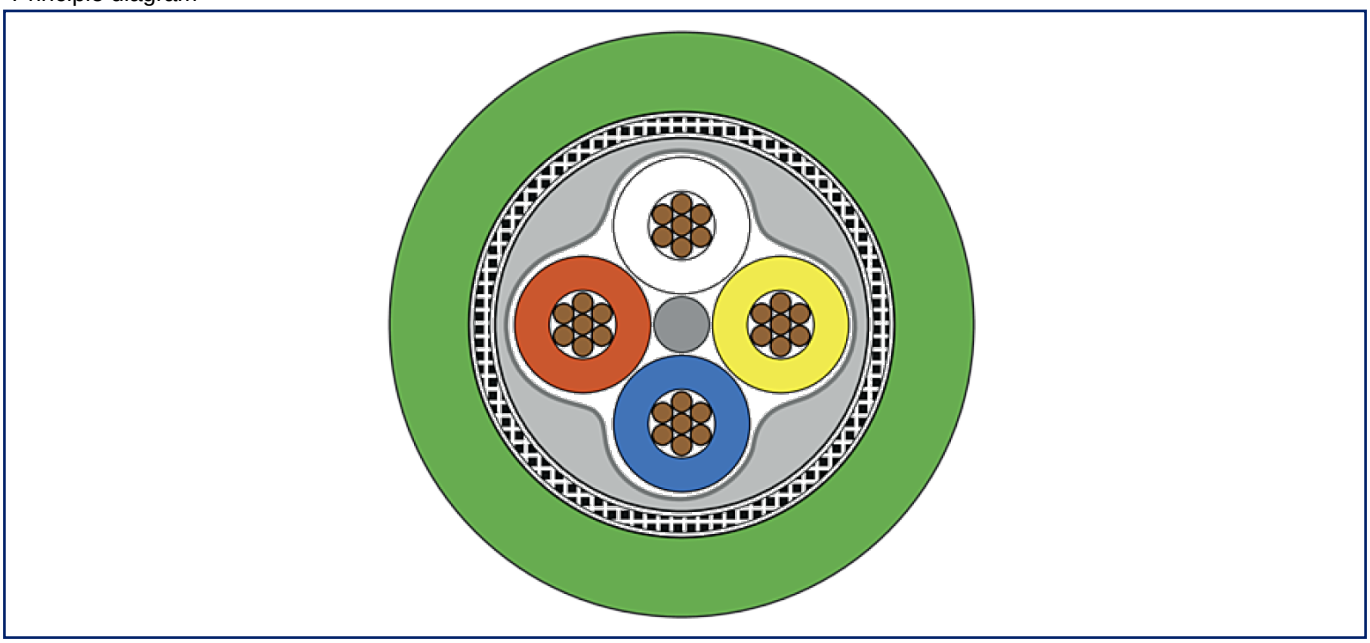
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Illustrations

Principle diagram



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