

Data sheet

Page 1/7

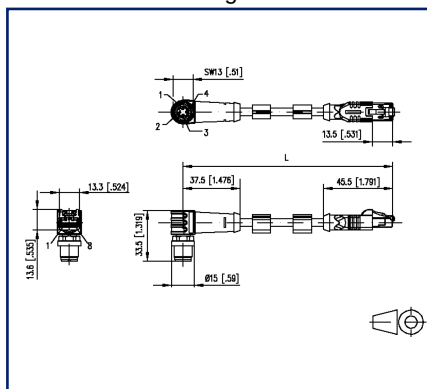
**M12 Industrial Ethernet cable, D-coded, 2.0 m,
RJ45 plug straight - M12 plug angled, drag chain, PUR**

P/N
142M1D59020
EAN 4251394653068
2026/09/29
Version: I

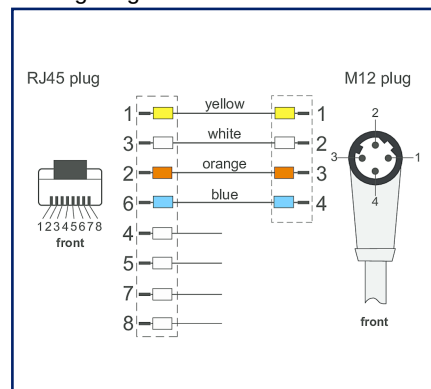
Illustrations



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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Page 2/7

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Technical Data

General Data	
Fields of application	Industrial Ethernet
Design	Ethernet-Connection line
Cable length (m)	2 m
Cable length (ft)	6.56168 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)	45.5 mm x 13.8 mm
Dimension (L x W)	1.791 in. x 0.543 in.
Connection 2	
Shielding	shielded
Dimension (L x W x H)	37.5 mm x 15 mm x 33.5 mm
Dimension (L x W x H)	1.476 in. x 0.591 in. x 1.319 in.

Connections/interfaces

Cable	
Conductor cross section AWG	AWG 22/7
Conductor diameter (mm)	0.75 mm
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	RJ45 plug
Coding	Industrial
Type of plug contact, field side	Male (plug)
Cable feed arrangement, field side	straight
Number of poles	4
Pin Assignment	1YE, 2OG, 3 WH , 6 BU



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Page 3/7

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Connections/interfaces

Connection 1

Latching lever protection	yes
Color of the cable boot	black

Connection 2

Connector type	M12-plug angled
Coding	D-coded
Type of plug contact, field side	Male (plug)
Cable feed arrangement, field side	angled
Number of poles	4
Pin Assignment	1YE, 2OG, 3 WH , 6 BU
Latching lever protection	no
Color of the cable boot	black

Electrical characteristics

Connection 1

Current carrying capacity per pin (at 40 °C)	1 A
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Connection 2

Current carrying capacity per pin (at 40 °C)	4 A
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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/s ²

Connection 1

Mechanical life	min. 750 mating cycles
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Connection 2

Mechanical life	min. 100 mating cycles
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Page 4/7

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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, TPE, BK
Material - Shielded housing	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)	IP20

Connection 2

Protection category (mounted)	IP67 (-30 °C...+90 °C), IP65 (-40 °C...+90 °C)
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Standards/Regulations

Profinet	Type C
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Page 5/7

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Classifications

ETIM 9.0	EC002599
ETIM 10.0	EC002599

Packing details

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



Data sheet

Page 6/7

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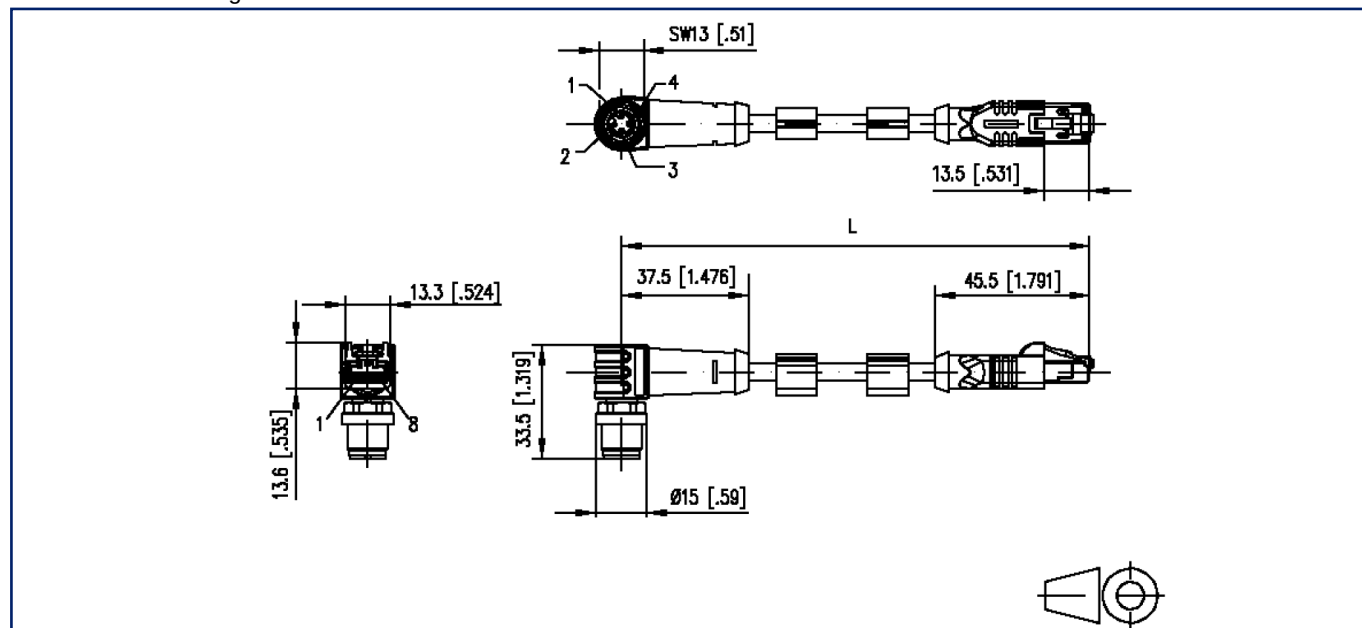
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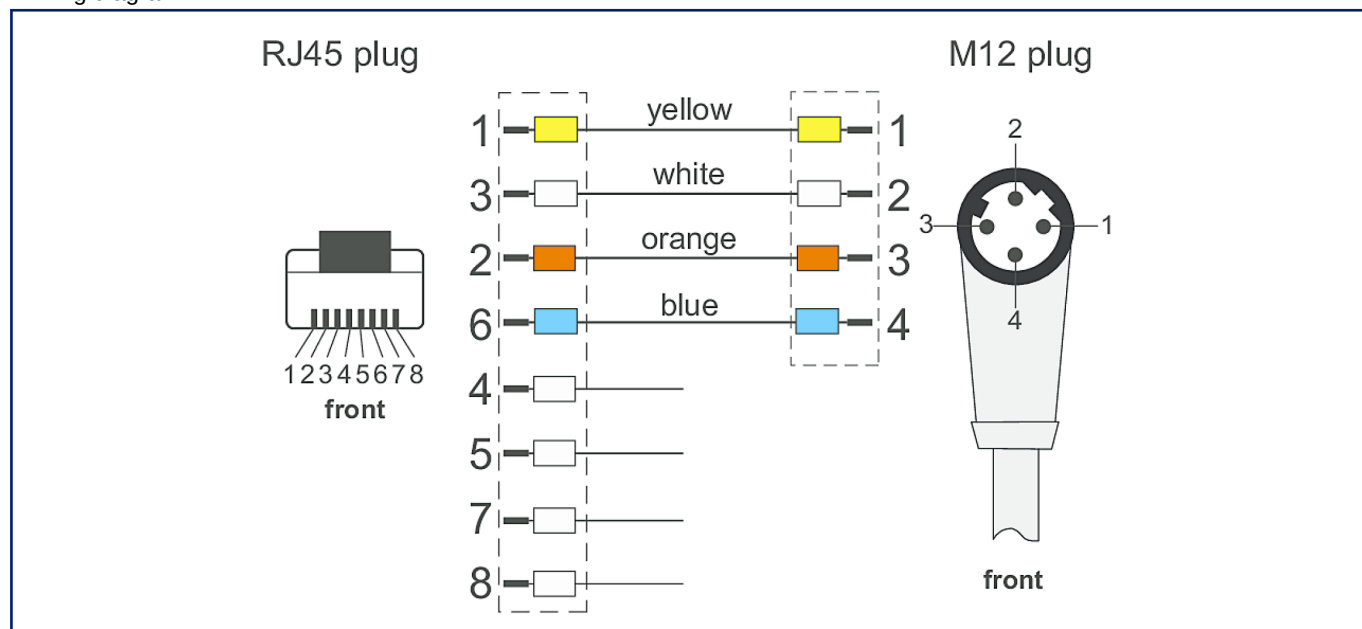
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Illustrations

Dimensional drawing



Wiring diagram



Data sheet

Page 7/7

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Principle diagram

