

# Data sheet

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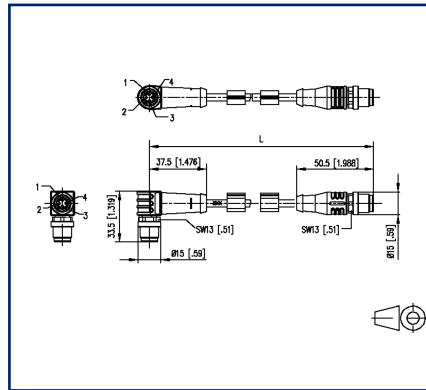
**M12 Industrial Ethernet cable, D-coded, 10.0 m,  
M12 plug straight - M12 plug angled, drag chain, PUR**

**P/N**  
**142M1D19100**  
**EAN 4250184174981**  
2026/09/29  
Version: BI

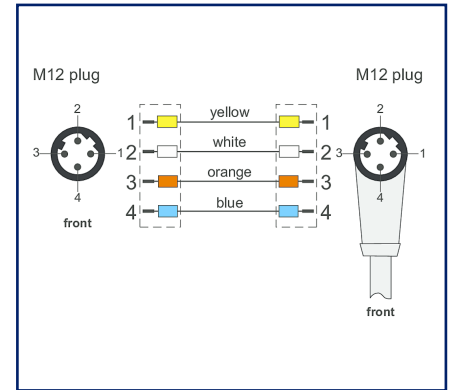
## Illustrations



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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## 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)   | 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                     | 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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### Connections/interfaces

#### Connection 1

|                           |       |
|---------------------------|-------|
| Latching lever protection | no    |
| 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                     | 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/s <sup>2</sup>       |

#### Connection 1

|                 |                        |
|-----------------|------------------------|
| Mechanical life | min. 100 mating cycles |
|-----------------|------------------------|

#### Connection 2

|                 |                        |
|-----------------|------------------------|
| Mechanical life | min. 100 mating cycles |
|-----------------|------------------------|



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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, 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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| 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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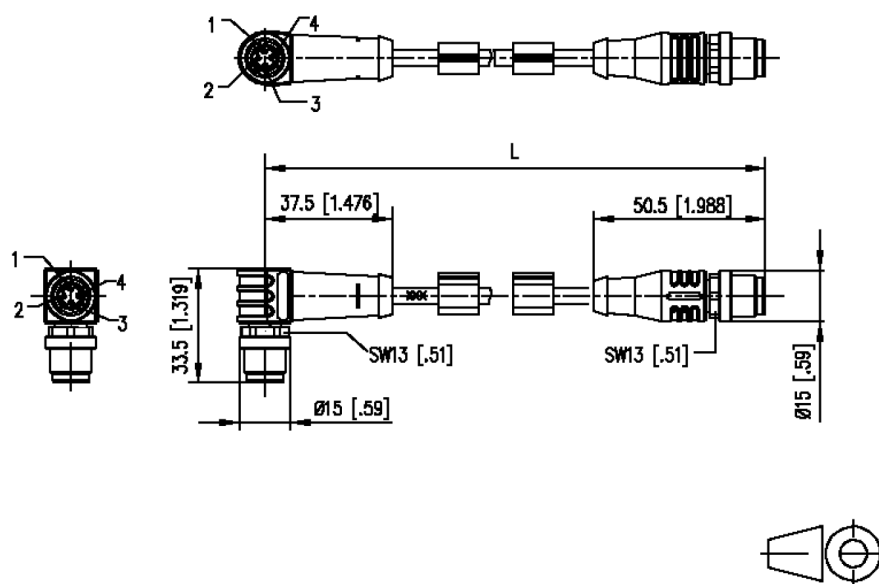
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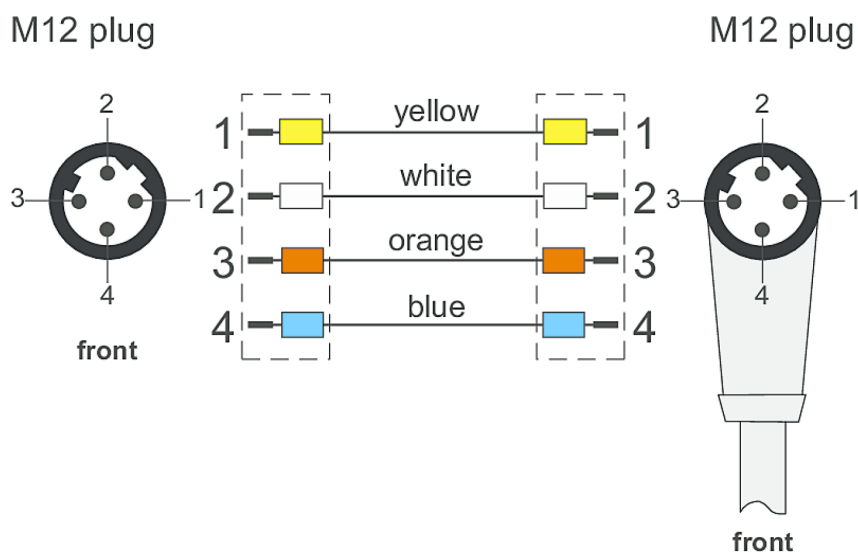
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## Illustrations

### Dimensional drawing



### Wiring diagram



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Principle diagram

