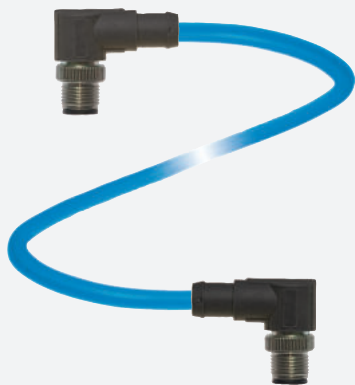




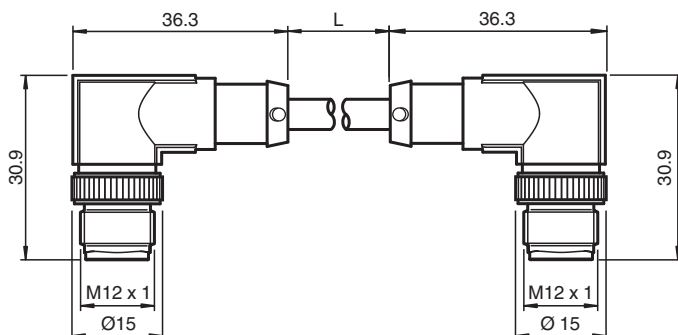
## Connection cable, Ethernet V1SD-W-20M-PUR-ABG-V1SD-W

- Hard-wearing PUR cable
- Industrial Ethernet
- D coding for Ethernet
- CAT5/CAT5e cable
- Free of paint wetting interfering substances
- Halogen-free
- Screw connection suitable for tool assembly
- Immunity to vibration, with mechanical latching

Ethernet bus cable M12 plug angled to M12 plug angled D-coded, 4-pin, PUR cable blue, Cat5e, shielded



### Dimensions



### Technical Data

#### General specifications

|                   |  |                  |
|-------------------|--|------------------|
| Connector 1       |  |                  |
| Connection        |  | plug             |
| Construction type |  | M12              |
| Style             |  | angled           |
| Locking           |  | screw connection |
| Number of pins    |  | 4                |
| Coding            |  | D-coded          |
| Connector 2       |  |                  |
| Connection        |  | plug             |
| Construction type |  | M12              |
| Style             |  | angled           |
| Locking           |  | screw connection |
| Number of pins    |  | 4                |
| Coding            |  | D-coded          |

#### Electrical specifications

|                   |       |                        |
|-------------------|-------|------------------------|
| Operating voltage | $U_B$ | max. 48 V AC / 60 V DC |
| Operating current | $I_B$ | max. 1 A               |

#### Conformity

|                      |                                     |  |
|----------------------|-------------------------------------|--|
| Degree of protection | EN 60529                            |  |
| Plug connection      | connector M12 x 1 : IEC 61076-2-101 |  |

Release date: 2023-07-12 Date of issue: 2023-07-13 Filename: 70101611\_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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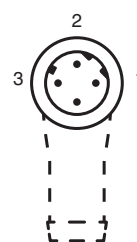
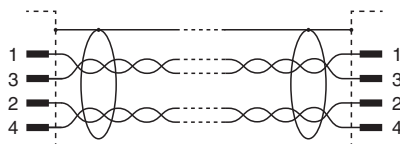
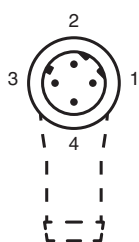
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 **PEPPERL+FUCHS**

## Technical Data

|                                  |                                        |                                                                                |
|----------------------------------|----------------------------------------|--------------------------------------------------------------------------------|
| Component category               | CAT5 (IEC 11801) , CAT5e (IEC 61156-6) |                                                                                |
| Flammability                     |                                        | IEC 60332-1-2 / UL 2556                                                        |
| Halogen-free                     |                                        | IEC 60754-1                                                                    |
| <b>Ambient conditions</b>        |                                        |                                                                                |
| Ambient temperature              |                                        |                                                                                |
| Plug connector                   |                                        | -25 ... 90 °C (-13 ... 194 °F)                                                 |
| Cable, fixed                     |                                        | -40 ... 80 °C (-40 ... 176 °F)                                                 |
| Cable, flexing                   |                                        | -20 ... 80 °C (-4 ... 176 °F)                                                  |
| Pollution degree                 |                                        | 3                                                                              |
| <b>Mechanical specifications</b> |                                        |                                                                                |
| Plug connector                   |                                        |                                                                                |
| Tightening torque                |                                        | 0.4 Nm                                                                         |
| Loosening protection             |                                        | available                                                                      |
| Tool installation                |                                        | straight knurling                                                              |
| Mating cycles                    |                                        | min. 100                                                                       |
| Shielding                        |                                        | shield connected to screw connection                                           |
| Degree of protection             |                                        | IP65/IP67                                                                      |
| Cable                            |                                        | according to IEC/EN 60228 (DIN VDE 0295) class 5                               |
| Sheath diameter                  |                                        | 6.4 mm                                                                         |
| Bending radius                   |                                        | > 8 x cable diameter, moving<br>> 4 x cable diameter, fixed                    |
| Sheath color                     |                                        | water blue (RAL 5021)                                                          |
| Number of cores                  |                                        | 4                                                                              |
| Core cross section               |                                        | 0.14 mm <sup>2</sup>                                                           |
| Cores color                      |                                        | Core 1: white/orange<br>Core 2: white/green<br>Core 3: orange<br>Core 4: green |
| Core construction                |                                        | 7 x 0.16 mm Ø<br>twisted pairs                                                 |
| Shield                           |                                        | aluminum-lined polyester foil<br>Tinned copper braiding, 70 % coverage         |
| Length                           | L                                      | 20 m                                                                           |
| <b>Material</b>                  |                                        |                                                                                |
| PWIS free                        |                                        | yes                                                                            |
| Halogen-free                     |                                        | yes                                                                            |
| Plug connector                   |                                        |                                                                                |
| Screw connection                 |                                        | Zinc diecast, nickel-plated                                                    |
| Body                             |                                        | TPU, black                                                                     |
| Contact surface                  |                                        | Ni/Au                                                                          |
| Flammability                     |                                        | V-2                                                                            |
| Cable                            |                                        |                                                                                |
| Sheathing                        |                                        | PUR                                                                            |
| Core insulation                  |                                        | PE                                                                             |
| Flammability                     |                                        | VW-1                                                                           |

## Connection



## Accessories

|                                                                                   |                              |                                                  |
|-----------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|
|  | <b>MH V1-SCREWDRIVER</b>     | Torque screwdriver (0.6 Nm)                      |
|  | <b>MH V1-BIT M12</b>         | plug-in cap M12                                  |
|  | <b>V1/V3-LABELHOLDER</b>     | Label holder                                     |
|  | <b>V1/V3-LABEL</b>           | Label plate                                      |
|  | <b>MH V1-Holder</b>          | Modular universal holder for M12 connectors      |
|  | <b>V1-CLIP</b>               | Unlocking protector for M12 connector            |
|  | <b>V1-MARKING-RING-COLOR</b> | Marking rings for M12 connectors, various colors |