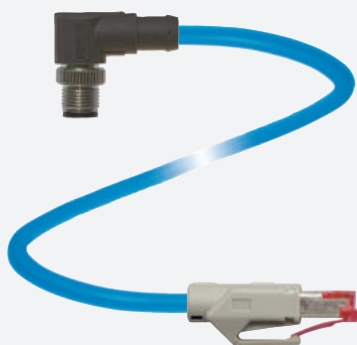




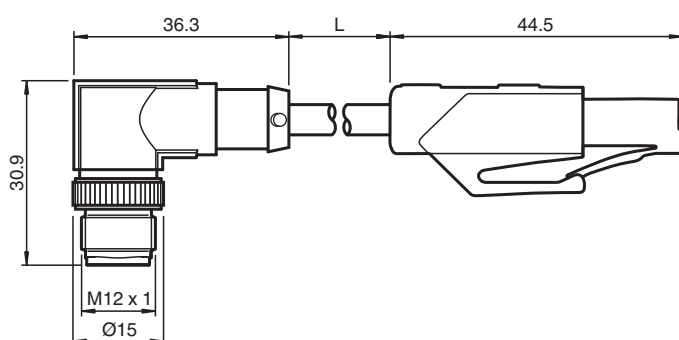
## Connection cable, Ethernet V1SD-90-W-3M-PUR-ABG-V45-G

- Hard-wearing PUR cable
- Industrial Ethernet
- D coding for Ethernet
- CAT5/CAT5e cable
- Halogen-free
- Contact carrier rotated by -90°
- Screw connection suitable for tool assembly
- Immunity to vibration, with mechanical latching

Ethernet bus cable M12 plug angled D-coded to RJ45 Ethernet-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                         |
| Customization     |  | contact carrier rotated by -90° |
| Connector 2       |  |                                 |
| Connection        |  | plug                            |
| Construction type |  | RJ45                            |
| Style             |  | straight                        |
| Locking           |  | snap locking                    |
| Number of pins    |  | 8                               |

#### Electrical specifications

|                   |                |                        |
|-------------------|----------------|------------------------|
| Operating voltage | U <sub>B</sub> | max. 48 V AC / 60 V DC |
| Operating current | I <sub>B</sub> | max. 1 A               |

#### Conformity

|                      |          |
|----------------------|----------|
| Degree of protection | EN 60529 |
|----------------------|----------|

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

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## Technical Data

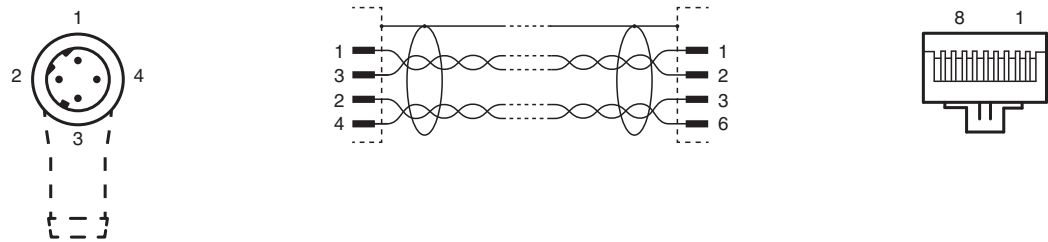
|                                  |   |                                                                                        |
|----------------------------------|---|----------------------------------------------------------------------------------------|
| Plug connection                  |   | connector M12 x 1 : IEC 61076-2-101<br>connector RJ45 : IEC 60603-7                    |
| 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              |   |                                                                                        |
| Connector 1                      |   | -25 ... 90 °C (-13 ... 194 °F)                                                         |
| Connector 2                      |   | -25 ... 60 °C (-13 ... 140 °F)                                                         |
| Cable, fixed                     |   | -40 ... 80 °C (-40 ... 176 °F)                                                         |
| Cable, flexing                   |   | -20 ... 80 °C (-4 ... 176 °F)                                                          |
| <b>Mechanical specifications</b> |   |                                                                                        |
| Connector 1                      |   |                                                                                        |
| 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                                                                              |
| Connector 2                      |   |                                                                                        |
| Loosening protection             |   | available                                                                              |
| Mating cycles                    |   | min. 750                                                                               |
| Shielding                        |   | shield connected to connector                                                          |
| Degree of protection             |   | IP20                                                                                   |
| 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 1-1: white/orange<br>Core 2-3: white/green<br>Core 3-2: orange<br>Core 4-6: 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 | 3 m                                                                                    |
| <b>Material</b>                  |   |                                                                                        |
| PWIS free                        |   | yes                                                                                    |
| Halogen-free                     |   | yes                                                                                    |
| Connector 1                      |   |                                                                                        |
| Screw connection                 |   | Zinc diecast, nickel-plated                                                            |
| Body                             |   | TPU, black                                                                             |
| Contact surface                  |   | Ni/Au                                                                                  |
| Flammability                     |   | V-2                                                                                    |
| Connector 2                      |   |                                                                                        |
| Body                             |   | PA, grey                                                                               |
| Contact surface                  |   | Ni/Au                                                                                  |
| Flammability                     |   | V-0                                                                                    |
| Cable                            |   |                                                                                        |
| Sheathing                        |   | PUR                                                                                    |
| Core insulation                  |   | PE                                                                                     |
| Flammability                     |   | VW-1                                                                                   |

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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 |