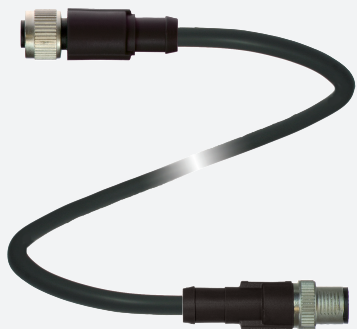




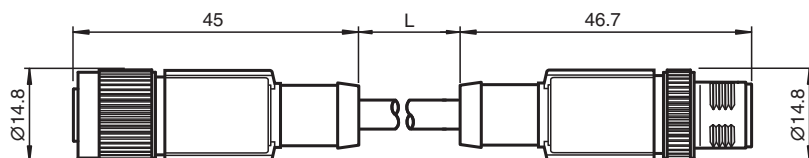
## Connection cable

### V112-G-BK3M-PUR-ABG-V112-G

- Immunity to vibration, with mechanical latching
- Knurled nut suitable for tool assembly
- Suitable for drag chains and abrasion resistant
- Resistant to microbes and hydrolysis
- Halogen-free

Cordset M12 socket to M12 plug A-coded, 12-pin, PUR cable black, shielded

## Dimensions



## Technical Data

### General specifications

|                   |  |                  |
|-------------------|--|------------------|
| Connector 1       |  |                  |
| Connection        |  | socket           |
| Construction type |  | M12              |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 12               |
| Coding            |  | A-coded          |
| Connector 2       |  |                  |
| Connection        |  | Male connector   |
| Construction type |  | M12              |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 12               |
| Coding            |  | A-coded          |

### Electrical specifications

|                   |                |      |
|-------------------|----------------|------|
| Operating voltage | U <sub>B</sub> | 30 V |
|-------------------|----------------|------|

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## Technical Data

|                                  |                |                                                                                                                                                                                                                 |
|----------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating current                | I <sub>B</sub> | 1.5 A                                                                                                                                                                                                           |
| Surge protection                 |                | category II                                                                                                                                                                                                     |
| <b>Conformity</b>                |                |                                                                                                                                                                                                                 |
| Degree of protection             |                | EN 60529                                                                                                                                                                                                        |
| Plug connection                  |                | connector M12 x 1 : IEC 61076-2-101                                                                                                                                                                             |
| Flammability                     |                | IEC 60332-1-2 , UL 1581                                                                                                                                                                                         |
| Chemical resistance              |                | DIN VDE 0472 T.803, test type B                                                                                                                                                                                 |
| Microbial resistance             |                | DIN VDE 0282-10 / EN 50396                                                                                                                                                                                      |
| <b>Ambient conditions</b>        |                |                                                                                                                                                                                                                 |
| Ambient temperature              |                |                                                                                                                                                                                                                 |
| Plug connector                   |                | -25 ... 85 °C (-13 ... 185 °F)                                                                                                                                                                                  |
| Cable, fixed                     |                | -30 ... 80 °C (-22 ... 176 °F)                                                                                                                                                                                  |
| Cable, flexing                   |                | -5 ... 80 °C (23 ... 176 °F)                                                                                                                                                                                    |
| Pollution degree                 |                | 3                                                                                                                                                                                                               |
| <b>Mechanical specifications</b> |                |                                                                                                                                                                                                                 |
| Plug connector                   |                |                                                                                                                                                                                                                 |
| Tightening torque                |                | 0.6 Nm                                                                                                                                                                                                          |
| 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                  |                | 8.5 mm                                                                                                                                                                                                          |
| Bending radius                   |                | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed                                                                                                                                                    |
| Sheath color                     |                | black (similar to RAL 9005)                                                                                                                                                                                     |
| Number of cores                  |                | 12                                                                                                                                                                                                              |
| Core cross-section               |                | 0.14 mm <sup>2</sup>                                                                                                                                                                                            |
| Cores color                      |                | Core 1: brown<br>Core 2: blue<br>Core 3: white<br>Core 4: green<br>Core 5: pink<br>Core 6: yellow<br>Core 7: black<br>Core 8: grey<br>Core 9: red<br>Core 10: violet<br>Core 11: grey/pink<br>Core 12: red/blue |
| Core construction                |                | 18 x 0.1 mm Ø twisted pairs                                                                                                                                                                                     |
| Shield                           |                | tinned copper braiding, 85 % coverage                                                                                                                                                                           |
| Length                           | L              | 3 m                                                                                                                                                                                                             |
| Cable code                       |                | LSPYwC11Y                                                                                                                                                                                                       |
| <b>Drag chain suitability</b>    |                |                                                                                                                                                                                                                 |
| Drag chain cycles                |                | min. 2000000                                                                                                                                                                                                    |
| Motion velocity                  |                | max. 3 m/s                                                                                                                                                                                                      |
| Traverse distance                |                | 10 m                                                                                                                                                                                                            |
| Acceleration                     |                | max. 10 m/s <sup>2</sup>                                                                                                                                                                                        |
| <b>Material</b>                  |                |                                                                                                                                                                                                                 |
| Plug connector                   |                |                                                                                                                                                                                                                 |
| Knurled screw connection         |                | Zinc die-casting, nickel-plated                                                                                                                                                                                 |
| Body                             |                | TPU, green                                                                                                                                                                                                      |
| Seal                             |                | NBR                                                                                                                                                                                                             |
| Contact surface                  |                | Ni/Au                                                                                                                                                                                                           |
| Flammability                     |                | V-0                                                                                                                                                                                                             |
| Cable                            |                |                                                                                                                                                                                                                 |

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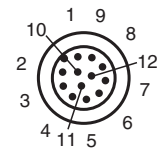
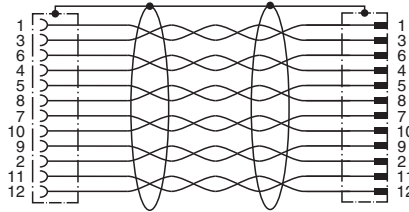
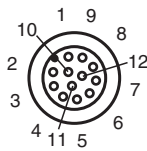
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## Technical Data

|                 |      |
|-----------------|------|
| Sheathing       | PUR  |
| Core insulation | PP   |
| Flammability    | VW-1 |

## Connection Assignment



## 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-MARKING-RING-BLUE</b>   | Marking ring for M12 connectors             |
|  | <b>V1-MARKING-RING-GREEN</b>  | Marking ring for M12 connectors             |
|  | <b>V1-MARKING-RING-ORANGE</b> | Marking ring for M12 connectors             |
|  | <b>V1-MARKING-RING-RED</b>    | Marking ring for M12 connectors             |
|  | <b>V1-MARKING-RING-WHITE</b>  | Marking ring for M12 connectors             |
|  | <b>V1-MARKING-RING-YELLOW</b> | Marking ring for M12 connectors             |