



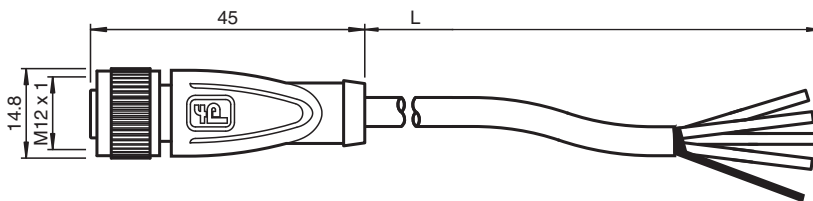
## Cable socket, shielded V1-G-BK2M-PUR-O1S

- Suitable for outdoor use (UV- and ozone resistant)
- Suitable for drag chains and abrasion resistant
- Degree of protection IP67 / IP68 / IP69
- Free from substances that impair paint wetting
- Resistant to microbes and hydrolysis
- Oil resistant
- Resistant to salt water
- cURus approval
- Halogen-free
- Shield connected to screw connection
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Female cordset single-ended M12 straight A-coded 4-pin, PUR cable black, shielded, UL approved, drag chain suitable, outdoor



### Dimensions



### Technical Data

#### General specifications

|                   |                  |
|-------------------|------------------|
| Connector 1       |                  |
| Connection        | socket           |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | cable end        |
| UL File Number    | E231213          |

#### Electrical specifications

|                   |       |                  |
|-------------------|-------|------------------|
| Operating voltage | $U_B$ | max. 250 V AC/DC |
| Operating current | $I_B$ | max. 4 A         |

## Technical Data

|                                   |   |   |
|-----------------------------------|---|---|
| <b>Conformity</b>                 |   |   |
| Degree of protection              |   | EN 60529  |
| Plug connection                   |   | connector M12 x 1 : IEC 61076-2-101                               |
| Flammability                      |   | UL 1581; DIN EN 60332-2-2   |
| Halogen-free                      |   | DIN VDE 0472-815 / DIN EN 50267-2-1                               |
| Oil resistance                    |   | DIN EN 60811-2-1  |
| <b>Approvals and certificates</b> |   |   |
| UL approval                       |   | AWM STYLE 21924/11558 105°C 300V AWM I A/B 105°C 300V FT2 (cable) |
| <b>Ambient conditions</b>         |   |   |
| Ambient temperature               |   |   |
| Plug connector                    |   | -40 ... 90 °C (-40 ... 194 °F)                                    |
| Cable, fixed                      |   | -50 ... 105 °C (-58 ... 221 °F)                                   |
| Cable, flexing                    |   | -30 ... 105 °C (-22 ... 221 °F)                                   |
| Pollution degree                  |   | 3   |
| <b>Mechanical specifications</b>  |   |   |
| Plug connector                    |   |   |
| Tightening torque                 |   | 0.6 Nm  |
| Loosening protection              |   | available   |
| Tool installation                 |   | straight knurling   |
| Mating cycles                     |   | min. 100  |
| Shielding                         |   | shield connected to screw connection                              |
| Degree of protection              |   | IP67 / IP68 / IP69  |
| Cable                             |   |   |
| Sheath diameter                   |   | 6 mm  |
| Bending radius                    |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed      |
| Sheath stripping force            |   | max. 80 N / 300 mm  |
| Sheath color                      |   | black (similar to RAL 7021)                                       |
| Number of cores                   |   | 4   |
| Core cross-section                |   | 0.5 mm <sup>2</sup>   |
| Coors color                       |   | Core 1: brown<br>Core 2: white<br>Core 3: blue<br>Core 4: black   |
| Core construction                 |   | 28 x 0.15 mm Ø  |
| Shield                            |   | tinned copper braiding, 85 % coverage                             |
| Length                            | L | 2 m   |
| Cable code                        |   |   |
|                                   |   | Li 9Y C11Y 4 x 0,50   |
| Drag chain suitability            |   |   |
| Drag chain cycles                 |   | min. 2000000  |
| Motion velocity                   |   | max. 3 m/s  |
| Traverse distance                 |   | max. 10 m   |
| Acceleration                      |   | max. 10 m/s <sup>2</sup>  |
| <b>Material</b>                   |   |   |
| LABS free                         |   | yes   |
| Halogen-free                      |   | yes   |
| Plug connector                    |   |   |
| Screw connection                  |   | Zinc diecast, nickel-plated                                       |
| Body                              |   | TPU, black  |
| Contact surface                   |   | Au  |
| Flammability                      |   | V-2   |
| Cable                             |   |   |
| Sheathing                         |   | PUR based on polyether  |
| Core insulation                   |   | PP  |

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### Technical Data

|                              |      |
|------------------------------|------|
| Salt water resistance        | yes  |
| UV resistance                | yes  |
| Chemical resistance          | good |
| Oil resistance               | yes  |
| Cooling lubricant resistance | yes  |
| Microbial resistance         | yes  |
| Hydrolysis resistance        | yes  |
| Flammability                 | FT2  |

### Connection Assignment

