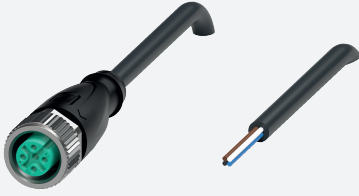


# Female cordset

## V1-G-BK50M-PUR-O1



- Suitable for outdoor use (UV- and ozone resistant)
- Suitable for drag chains and abrasion resistant
- Degree of protection IP68 / IP69
- Resistant to microbes and hydrolysis
- Oil resistant
- Resistant to salt water
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M12 straight A-coded 4-pin, PUR cable black, 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        |

#### Electrical specifications

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

#### Conformity

|                      |  |
|----------------------|--|
| 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                |
| UV resistance        | on the basis of DIN EN ISO 4892-2-A for 1000 hours |
| Oil resistance       | DIN EN 60811-2-1                                   |

#### Approvals and certificates

|                |   |
|----------------|---|
| UL approval    | AWM STYLE 21924/11558 105°C 300V AWM I A/B 105°C 300V FT2 (cable) |
| UL File Number | E231213   |

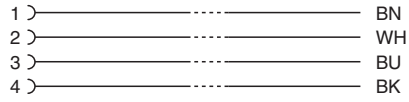
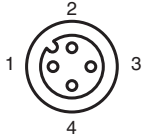
Release date: 2024-04-30 Date of issue: 2024-04-30 Filename: 239998-100057\_eng.pdf

## Technical Data

| Ambient conditions           |   |   |
|------------------------------|---|---|
| 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   |
| Mechanical specifications    |   |   |
| Plug connector               |   |   |
| Tightening torque            |   | 0.6 Nm  |
| Loosening protection         |   | available   |
| Tool installation            |   | straight knurling and hexagon nut SW = 14 mm                    |
| Mating cycles                |   | min. 100  |
| Degree of protection         |   | IP68 / IP69   |
| Cable                        |   | according to IEC/EN 60228 (DIN VDE 0295) class 6                |
| Sheath diameter              |   | 4.8 mm  |
| Bending radius               |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed    |
| Sheath stripping force       |   | max. 50 N / 300 mm  |
| Sheath color                 |   | black (similar to RAL 7021)                                     |
| Number of cores              |   | 4   |
| Core cross section           |   | 0.5 mm <sup>2</sup>   |
| Cores color                  |   | Core 1: brown<br>Core 2: white<br>Core 3: blue<br>Core 4: black |
| Core construction            |   | 28 x 0.15 mm Ø<br>1 x symmetrically twisted                     |
| Length                       | L | 50 m  |
| Cable code                   |   | Li 9Y 11Y 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>  |
| Mass                         |   | 1795 g  |
| Material                     |   |   |
| Halogen-free                 |   | yes   |
| Plug connector               |   |   |
| Screw connection             |   | Zinc diecast, nickel-plated                                     |
| Body                         |   | TPU, black  |
| Seal                         |   | FKM   |
| Contact surface              |   | gold plated (Au)  |
| Flammability                 |   | V-2   |
| Cable                        |   |   |
| Sheathing                    |   | PUR based on polyether  |
| Cores                        |   | bare copper (Cu)  |
| Core insulation              |   | PP  |
| 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   |

Release date: 2024-04-30 Date of issue: 2024-04-30 Filename: 239998-100057\_eng.pdf

## Connection



Release date: 2024-04-30 Date of issue: 2024-04-30 Filename: 239998-100057\_eng.pdf