

# Connection cable, shielded

## V1-G-BK5M-PUR-U5/ABG-V1-G

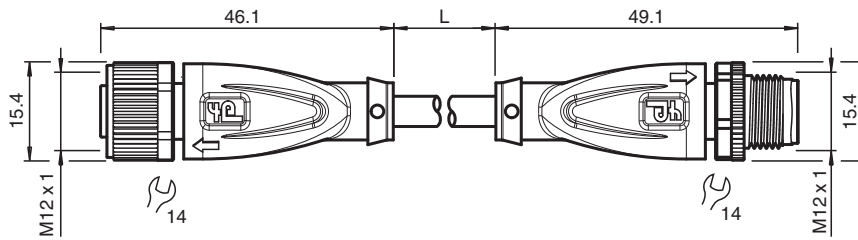


- Degree of protection IP68 / IP69
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PUR cable black, shielded, UL-approved



### 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        | plug             |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | A-coded          |

#### Electrical specifications

|                   |       |                        |
|-------------------|-------|------------------------|
| Operating voltage | $U_B$ | max. 48 V AC / 60 V DC |
| Operating current | $I_B$ | max. 4 A               |

#### Conformity

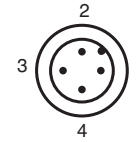
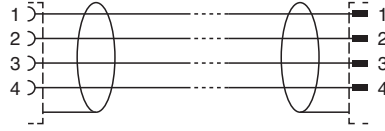
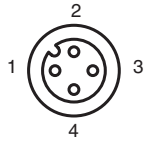
|                      |                                     |
|----------------------|-------------------------------------|
| Degree of protection | EN 60529                            |
| Plug connection      | connector M12 x 1 : IEC 61076-2-101 |
| Flammability         | UL 1581; DIN EN 60332-2-2           |
| Halogen-free         | DIN VDE 0472-815 / DIN EN 50267-2-1 |

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## Technical Data

| 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   |
| 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  |
| Shielding                  |   | shield connected to screw connection                              |
| Degree of protection       |   | 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>   |
| 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  |
| Shield                     |   | tinned copper braiding, 85 % coverage                             |
| Length                     | L | 5 m   |
| Cable code                 |   | Li 9Y C11Y 4 x 0,50   |
| 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  |
| Core insulation            |   | PP  |
| UV resistance              |   | yes   |
| Microbial resistance       |   | yes   |
| Hydrolysis resistance      |   | yes   |
| Flammability               |   | FT2   |

## 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 |