

# Connection cable, shielded

## V19-G-BK0,5M-PUR-U/ABG-V19-G

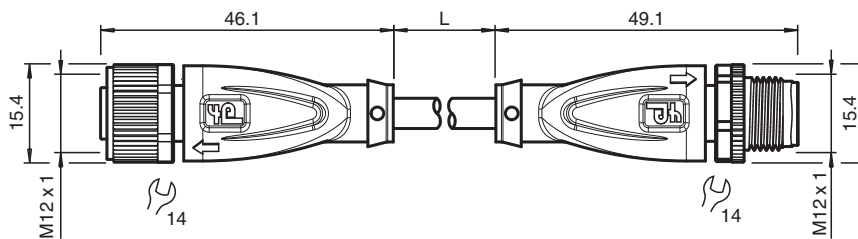


- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight to M12 plug straight A-coded, 8-pin, PUR cable black, shielded, UL-approved, drag chain suitable



### Dimensions



### Technical Data

#### General specifications

|                   |  |                  |
|-------------------|--|------------------|
| Connector 1       |  |                  |
| Connection        |  | socket           |
| Construction type |  | M12              |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 8                |
| Coding            |  | A-coded          |
| Connector 2       |  |                  |
| Connection        |  | plug             |
| Construction type |  | M12              |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 8                |
| Coding            |  | A-coded          |

#### Electrical specifications

|                   |                |                 |
|-------------------|----------------|-----------------|
| Operating voltage | U <sub>B</sub> | max. 30 V AC/DC |
| Operating current | I <sub>B</sub> | max. 2 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         |  | IEC 60754-1                         |

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

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## Technical Data

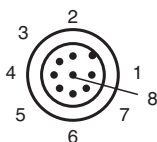
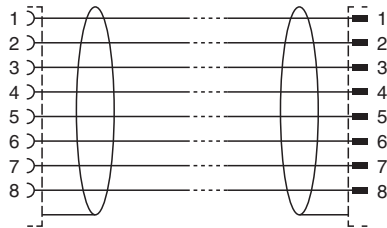
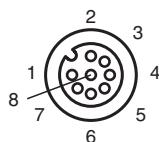
|                                   |   |                                                                                                                                  |
|-----------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------|
| Microbial resistance              |   | EN 50363                                                                                                                         |
| Hydrolysis resistance             |   | EN 50363                                                                                                                         |
| <b>Approvals and certificates</b> |   |                                                                                                                                  |
| UL approval                       |   | AWM STYLE 20549 I/II A/B 80°C 300V FT2 (cable)                                                                                   |
| UL File Number                    |   | E231213                                                                                                                          |
| <b>Ambient conditions</b>         |   |                                                                                                                                  |
| Ambient temperature               |   |                                                                                                                                  |
| Plug connector                    |   | -40 ... 90 °C (-40 ... 194 °F)                                                                                                   |
| Cable, fixed                      |   | -40 ... 80 °C (-40 ... 176 °F)                                                                                                   |
| Cable, flexing                    |   | -20 ... 80 °C (-4 ... 176 °F)                                                                                                    |
| Pollution degree                  |   | 3                                                                                                                                |
| <b>Mechanical specifications</b>  |   |                                                                                                                                  |
| 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                             |   | according to IEC/EN 60228 (DIN VDE 0295) class 6                                                                                 |
| 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 9005)                                                                                                      |
| Number of cores                   |   | 8                                                                                                                                |
| Core cross section                |   | 0.25 mm²                                                                                                                         |
| Cores color                       |   | Core 1: white<br>Core 2: brown<br>Core 3: green<br>Core 4: yellow<br>Core 5: grey<br>Core 6: pink<br>Core 7: blue<br>Core 8: red |
| Core construction                 |   | 32 x 0.1 mm Ø                                                                                                                    |
| Shield                            |   | tinned copper braiding, 85 % coverage                                                                                            |
| Length                            | L | 0.5 m                                                                                                                            |
| Cable code                        |   | Li 9Y C 11Y 8 x 0,25                                                                                                             |
| Drag chain suitability            |   |                                                                                                                                  |
| Drag chain cycles                 |   | min. 5000000                                                                                                                     |
| Motion velocity                   |   | max. 3 m/s                                                                                                                       |
| Traverse distance                 |   | max. 5 m                                                                                                                         |
| Acceleration                      |   | max. 5 m/s²                                                                                                                      |
| <b>Material</b>                   |   |                                                                                                                                  |
| PWIS free                         |   | yes                                                                                                                              |
| 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                                                                                                                               |

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Technical Data

|                              |      |
|------------------------------|------|
| UV resistance                | yes  |
| Chemical resistance          | good |
| Oil resistance               | yes  |
| Cooling lubricant 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 |

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