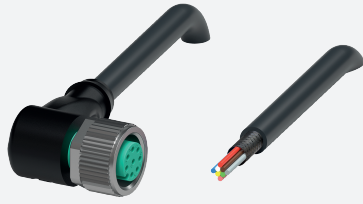


# Cable socket, shielded

## V19-W-BK5M-PUR-U/ABG

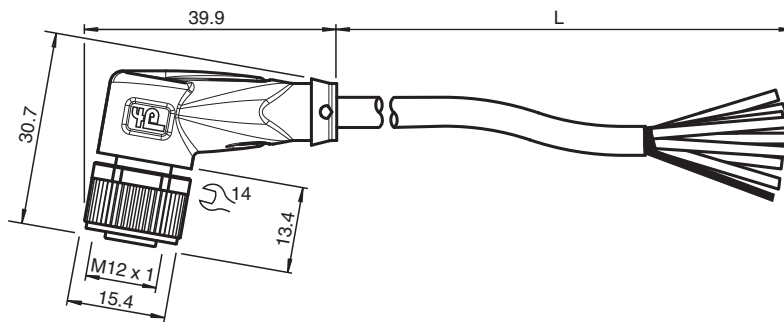


- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M12 angled 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             | angled           |
| Locking           | screw connection |
| Number of pins    | 8                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | cable end        |

#### Electrical specifications

|                   |       |                 |
|-------------------|-------|-----------------|
| Operating voltage | $U_B$ | max. 30 V AC/DC |
| Operating current | $I_B$ | 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                         |
| Microbial resistance  | EN 50363                            |
| Hydrolysis resistance | EN 50363                            |

#### Approvals and certificates

Release date: 2023-09-04 Date of issue: 2023-09-05 Filename: 456513\_eng.pdf

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

## Technical Data

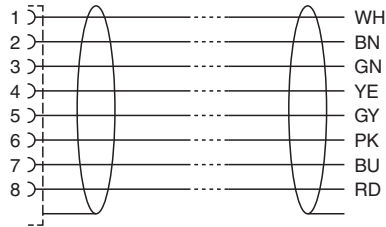
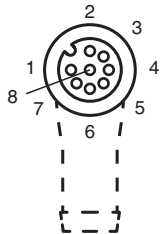
|                                  |  |     |
|----------------------------------|--|-----|
| UL approval                      | AWM STYLE 20549 I/II A/B 80°C 300V FT2 (cable)   |     |
| UL File Number                   | E231213  |     |
| <b>Ambient conditions</b>        |  |     |
| Ambient temperature              |  |     |
| 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 mm <sup>2</sup>   |     |
| 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  | 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/s <sup>2</sup>  |     |
| <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   |     |
| UV resistance                    | yes  |     |
| Chemical resistance              | good   |     |
| Oil resistance                   | yes  |     |

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### Technical Data

|                              |     |
|------------------------------|-----|
| 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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