

# Cable socket, shielded

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

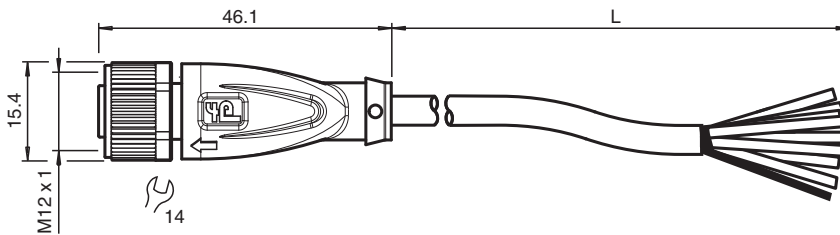


- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M12 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        | 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

|                |  |
|----------------|--|
| UL approval    | AWM STYLE 20549 I/II A/B 80°C 300V FT2 (cable) |
| UL File Number | E231213  |

Release date: 2023-09-04 Date of issue: 2023-09-04 Filename: 456429\_eng.pdf

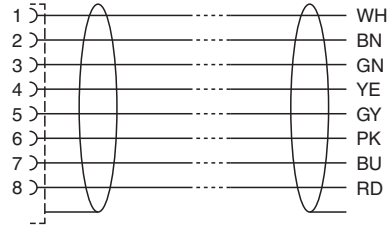
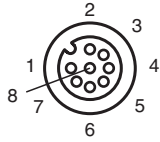
## Technical Data

| Ambient conditions           |   |  |
|------------------------------|---|--|
| 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  |
| 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                        |   | 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>  |
| Material                     |   |  |
| 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  |
| Cooling lubricant resistance |   | yes  |
| Microbial resistance         |   | yes  |








## Technical Data

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