



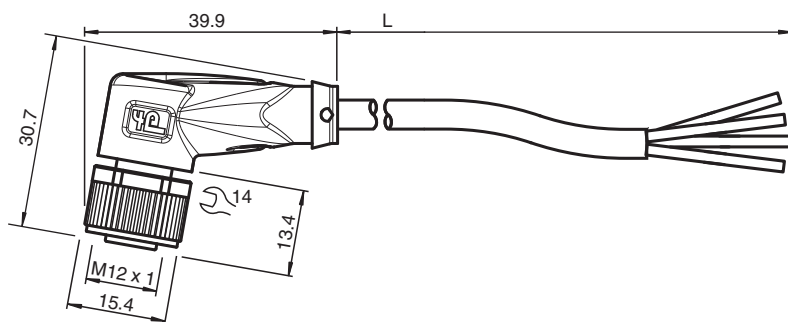
## Female cordset V1-W-BK5M-PVC-U

- Degree of protection IP68 / IP69
- UL listed for USA and Canada
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M12 angled A-coded, 4-pin, PVC cable black, UL approved



### Dimensions



### Technical Data

#### General specifications

|                   |  |                  |
|-------------------|--|------------------|
| Connector 1       |  |                  |
| Connection        |  | socket           |
| Construction type |  | M12              |
| Style             |  | angled           |
| 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 , IEC 60332-1-2             |

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

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## Technical Data

### Approvals and certificates

|                |  |                                                   |
|----------------|--|---------------------------------------------------|
| UL approval    |  | AWM STYLE 2095 AWM I/II A/B 80°C 300V FT1 (cable) |
| UL File Number |  | E231213                                           |

### Ambient conditions

|                     |  |                                |
|---------------------|--|--------------------------------|
| Ambient temperature |  |                                |
| Plug connector      |  | -40 ... 90 °C (-40 ... 194 °F) |
| Cable, fixed        |  | -25 ... 80 °C (-13 ... 176 °F) |
| Cable, flexing      |  | -5 ... 80 °C (23 ... 176 °F)   |
| Pollution degree    |  | 3                              |

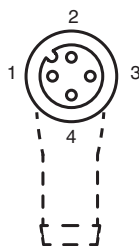
### Mechanical specifications

|                        |   |                                                                 |
|------------------------|---|-----------------------------------------------------------------|
| Plug connector         |   |                                                                 |
| Tightening torque      |   | 0.6 Nm                                                          |
| Loosening protection   |   | available                                                       |
| Tool installation      |   | straight knurling and hexagon nut SW = 14 mm                    |
| Mating cycles          |   | min. 100                                                        |
| Degree of protection   |   | IP68 / IP69                                                     |
| Cable                  |   | according to IEC/EN 60228 (DIN VDE 0295) class 5                |
| Sheath diameter        |   | 4.3 mm                                                          |
| Bending radius         |   | > 15 x cable diameter, moving<br>> 5 x cable diameter, fixed    |
| Sheath stripping force |   | max. 50 N / 300 mm                                              |
| Sheath color           |   | black (similar to RAL 9005)                                     |
| Number of cores        |   | 4                                                               |
| Core cross section     |   | 0.34 mm <sup>2</sup>                                            |
| Cores color            |   | Core 1: brown<br>Core 2: white<br>Core 3: blue<br>Core 4: black |
| Core construction      |   | 19 x 0.15 mm Ø                                                  |
| Length                 | L | 5 m                                                             |
| Cable code             |   | Li YY 4 x 0,34                                                  |

### Material

|                  |  |                             |
|------------------|--|-----------------------------|
| Plug connector   |  |                             |
| Screw connection |  | Zinc diecast, nickel-plated |
| Body             |  | TPU, black                  |
| Seal             |  | FKM                         |
| Contact surface  |  | Au                          |
| Flammability     |  | V-2                         |
| Cable            |  |                             |
| Sheathing        |  | PVC                         |
| Core insulation  |  | PVC                         |
| Flammability     |  | FT1                         |

## Connection Assignment



|   |       |    |
|---|-------|----|
| 1 | _____ | BN |
| 2 | _____ | WH |
| 3 | _____ | BU |
| 4 | _____ | BK |

## 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 |