

# Female cordset

## V1-G-BK3M-PVC-U

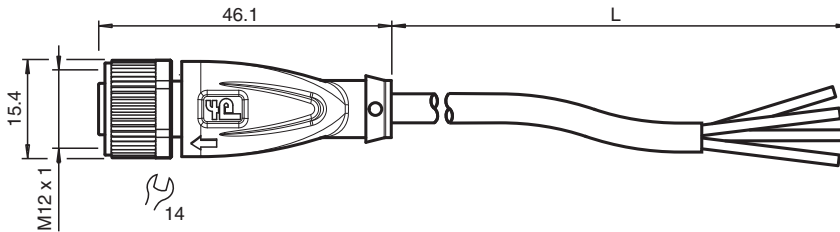


- Degree of protection IP68 / IP69
- UL listed for USA and Canada
- Specific design protects against loosening and inaccurate installation

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



### Dimensions



### Technical Data

#### General specifications

|                    |                  |
|--------------------|------------------|
| <b>Connector 1</b> |                  |
| Connection         | socket           |
| Construction type  | M12              |
| Style              | straight         |
| Locking            | screw connection |
| Number of pins     | 4                |
| Coding             | A-coded          |
| <b>Connector 2</b> |                  |
| 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             |

#### Approvals and certificates

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

#### Ambient conditions

|                            |                                |
|----------------------------|--------------------------------|
| <b>Ambient temperature</b> |                                |
| Plug connector             | -40 ... 90 °C (-40 ... 194 °F) |
| Cable, fixed               | -25 ... 80 °C (-13 ... 176 °F) |

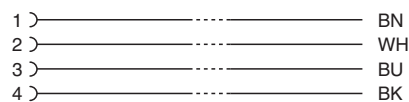
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".



## Technical Data

|                                  |   |   |
|----------------------------------|---|---|
| Cable, flexing                   |   | -5 ... 80 °C (23 ... 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  |
| Degree of protection             |   | IP68 / IP69   |
| Cable                            |   |   |
| 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 | 3 m   |
| Cable code                       |   | Li YY 4 x 0,34  |
| <b>Material</b>                  |   |   |
| Plug connector                   |   |   |
| Screw connection                 |   | Zinc diecast, nickel-plated                                     |
| Body                             |   | TPU, black  |
| Seal                             |   | FKM   |
| Contact surface                  |   | gold plated (Au)  |
| Flammability                     |   | V-2   |
| Cable                            |   |   |
| Sheathing                        |   | PVC   |
| Core insulation                  |   | PVC   |
| Flammability                     |   | FT1   |

## Connection



## Accessories

|   |                          |                             |
|---|--------------------------|-----------------------------|
|  | <b>MH V1-SCREWDRIVER</b> | Torque screwdriver (0.6 Nm) |
|  | <b>MH V1-BIT M12</b>     | plug-in cap M12             |

## Accessories

|   |                              |  |
|---|------------------------------|--|
|  | <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 |