



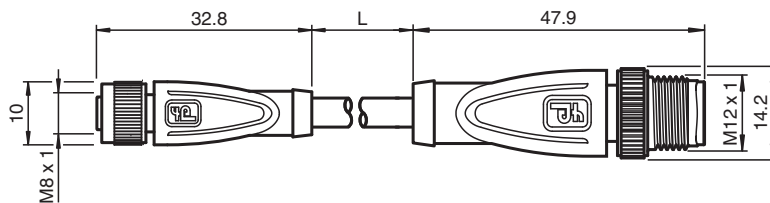
## Connection cable V3-GM-BK1M-PVC-U-V11-G

- Degree of protection IP67 / IP68 / IP69
- cURus approval
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Cordset M8 socket straight to M12 plug straight A-coded, 3-pin, PVC cable black, UL approved



### Dimensions



### Technical Data

#### General specifications

| Connector 1       |                  |
|-------------------|------------------|
| Connection        | socket           |
| Construction type | M8               |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 3                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | plug             |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 3                |
| Coding            | A-coded          |
| UL File Number    | E231213          |

#### Electrical specifications

Release date: 2021-02-04 Date of issue: 2021-02-04 Filename: 240797-100004\_eng.pdf

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

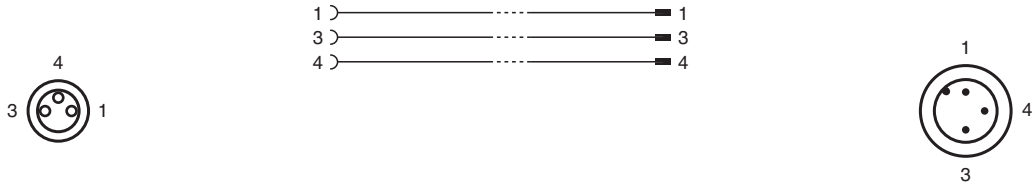
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

## Technical Data

|                                   |                |   |
|-----------------------------------|----------------|---|
| Operating voltage                 | U <sub>B</sub> | max. 48 V AC / 60 V DC  |
| Operating current                 | I <sub>B</sub> | max. 3 A  |
| <b>Conformity</b>                 |                |   |
| Degree of protection              |                | EN 60529  |
| Plug connection                   |                | connector M8 x 1 : IEC 61076-2-104<br>connector M12 x 1 : IEC 61076-2-101 |
| Flammability                      |                | UL 1581 , IEC 60332-1-2   |
| <b>Approvals and certificates</b> |                |   |
| UL approval                       |                | AWM STYLE 2095 AWM I/II A/B 80°C 300V FT1 (cable)                         |
| <b>Ambient conditions</b>         |                |   |
| 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   |
| <b>Mechanical specifications</b>  |                |   |
| Connector 1                       |                |   |
| Tightening torque                 |                | 0.4 Nm  |
| Loosening protection              |                | available   |
| Tool installation                 |                | straight knurling   |
| Mating cycles                     |                | min. 100  |
| Degree of protection              |                | IP67  |
| Connector 2                       |                |   |
| Tightening torque                 |                | 0.6 Nm  |
| Loosening protection              |                | available   |
| Tool installation                 |                | straight knurling   |
| Mating cycles                     |                | min. 100  |
| Degree of protection              |                | IP67 / 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                   |                | 3   |
| Core cross-section                |                | 0.34 mm <sup>2</sup>  |
| Cores color                       |                | Core 1: brown<br>Core 3: blue<br>Core 4: black                            |
| Core construction                 |                | 19 x 0.15 mm Ø  |
| Length                            | L              | 1 m   |
| Cable code                        |                | Li YY 3 x 0,34  |
| <b>Material</b>                   |                |   |
| Plug connector                    |                |   |
| Screw connection                  |                | Zinc diecast, nickel-plated   |
| Body                              |                | TPU, black  |
| Contact surface                   |                | Au  |
| Flammability                      |                | V-2   |
| Cable                             |                |   |
| Sheathing                         |                | PVC   |
| Core insulation                   |                | PVC   |
| Flammability                      |                | FT1   |

# Connection Assignment



Release date: 2021-02-04 Date of issue: 2021-02-04 Filename: 240797-100004\_eng.pdf

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com