



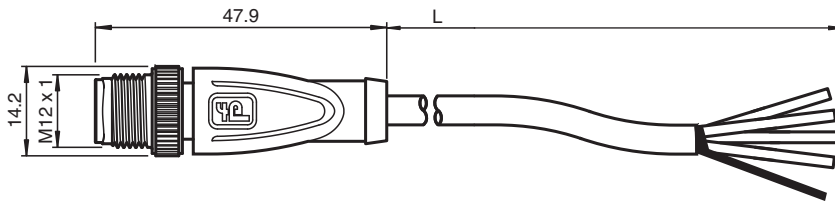
## Cable connector, shielded V15S-G-BK3M-PUR-O2/CAN

- Suitable for DeviceNet and CANopen
- Suitable for drag chains and abrasion resistant
- Degree of protection IP67 / IP68 / IP69
- Resistant to microbes and hydrolysis
- UV resistant
- Resistant to salt water
- cURus approval
- Halogen-free
- Shield connected to pin 1
- Shield connected to screw connection
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

DeviceNet/CANOpen bus cable male cordset single-ended M12 straight A-coded 5-pin, PUR cable 4-core twisted pairs black, shielded, UL approved, drag chain suitable, outdoor



### Dimensions



### Technical Data

#### General specifications

|                   |                  |
|-------------------|------------------|
| Connector 1       |                  |
| Connection        | plug             |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 5                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | cable end        |
| UL File Number    | E231213          |

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

### Electrical specifications

|                   |                |                        |
|-------------------|----------------|------------------------|
| Operating voltage | U <sub>B</sub> | max. 48 V AC / 60 V DC |
| Operating current | I <sub>B</sub> | 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             |
| Halogen-free          | IEC 60754-1                         |
| Chemical resistance   | DIN EN 60811-2-1                    |
| Microbial resistance  | DIN EN 50525-2-21 / DIN VDE 0282-10 |
| Hydrolysis resistance | DIN EN 50525-2-21                   |
| Oil resistance        | DIN EN 60811-2-1                    |

### Approvals and certificates

|             |                                                                   |
|-------------|-------------------------------------------------------------------|
| UL approval | AWM STYLE 21924/11558 105°C 300V AWM I A/B 105°C 300V FT2 (cable) |
|-------------|-------------------------------------------------------------------|

### Ambient conditions

|                     |                                 |
|---------------------|---------------------------------|
| Ambient temperature |                                 |
| Plug connector      | -40 ... 90 °C (-40 ... 194 °F)  |
| Cable, fixed        | -50 ... 105 °C (-58 ... 221 °F) |
| Cable, flexing      | -30 ... 105 °C (-22 ... 221 °F) |
| Pollution degree    | 3                               |

### Mechanical specifications

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| Plug connector         |                                                                    |
| Tightening torque      | 0.6 Nm                                                             |
| Loosening protection   | available                                                          |
| Tool installation      | straight knurling                                                  |
| Mating cycles          | min. 100                                                           |
| Shielding              | shield connected to pin 1 and screw connection                     |
| Degree of protection   | IP67 / IP68 / IP69                                                 |
| Cable                  | according to IEC/EN 60228 (DIN VDE 0295) class 5                   |
| Sheath diameter        | 6 mm                                                               |
| Bending radius         | > 10 x cable diameter, moving<br>> 5 x cable diameter, single bend |
| Sheath stripping force | max. 80 N / 500 mm                                                 |
| Sheath color           | black (similar to RAL 9005)                                        |
| Number of cores        | 4                                                                  |
| Core cross-section     | 0.34 mm <sup>2</sup>                                               |
| Cores color            | Core 2: red<br>Core 3: black<br>Core 4: white<br>Core 5: blue      |
| Core construction      | 19 x 0.15 mm Ø<br>twisted pairs to twisted quad                    |
| Shield                 | tinned copper braiding, 85 % coverage                              |
| Length                 | L 3 m                                                              |
| Cable code             | Li 9Y C11Y 2 x 2 x 0,34                                            |

### Drag chain suitability

|                   |                          |
|-------------------|--------------------------|
| Drag chain cycles | min. 3000000             |
| Motion velocity   | max. 2.5 m/s             |
| Traverse distance | 0.51 m                   |
| Acceleration      | max. 12 m/s <sup>2</sup> |

### Material

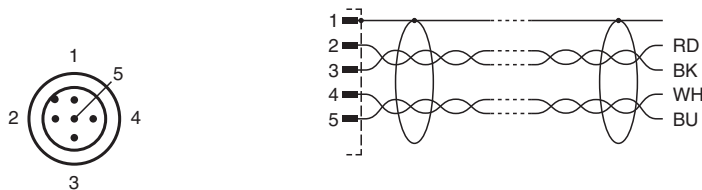
|                  |                             |
|------------------|-----------------------------|
| PWIS free        | yes                         |
| Halogen-free     | yes                         |
| Plug connector   |                             |
| Screw connection | Zinc diecast, nickel-plated |

Release date: 2021-06-08 Date of issue: 2021-06-08 Filename: 310003\_eng.pdf

## Technical Data

|                       |                        |
|-----------------------|------------------------|
| Body                  | TPU, black             |
| Contact surface       | Au                     |
| Flammability          | V-2                    |
| Cable                 |                        |
| Sheathing             | PUR based on polyether |
| Core insulation       | PP                     |
| Salt water resistance | yes                    |
| Oil resistance        | yes                    |
| Microbial resistance  | yes                    |
| Hydrolysis resistance | yes                    |
| Flammability          | FT2                    |

## Connection Assignment



## 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 |