



### Model Number

#### V1-GV4A-BK5M-PUR-U-PIP

Female cordset, M12, Stainless steel  
V4A, 4-pin, PUR cable

### Features

- UL Recognized Component
- Suitable for drag chains
- Gold plated contacts
- Coupling nut V4A
- Flame resistant cable
- Degree of protection IP67 / IP68 / IP69K
- Halogen-free

### Accessories

#### MH V1-Holder

Modular universal holder for M12 connectors

#### V1/V3-LABELHOLDER

Label holder

#### V1/V3-LABEL

Label plate

#### V1-MARKING-RING-BLUE

Marking ring for M12 plug

#### V1-MARKING-RING-GREEN

Marking ring for M12 plug

#### V1-MARKING-RING-ORANGE

Marking ring for M12 plug

#### V1-MARKING-RING-RED

Marking ring for M12 plug

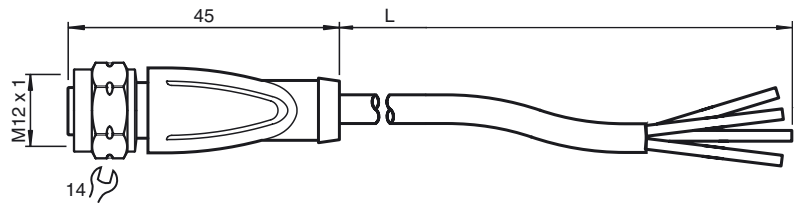
#### V1-MARKING-RING-WHITE

Marking ring for M12 plug

#### V1-MARKING-RING-YELLOW

Marking ring for M12 plug

### Dimensions



### Technical data

#### General specifications

|                     |           |
|---------------------|-----------|
| Number of pins      | 4         |
| Connection 1        | socket    |
| Construction type 1 | straight  |
| Threading 1         | M12       |
| Connection 2        | cable end |
| UL File Number      | E231213   |

#### Electrical specifications

|                   |       |                  |
|-------------------|-------|------------------|
| Operating voltage | $U_B$ | max. 250 V AC/DC |
| Operating current | $I_B$ | max. 4 A         |
| Volume resistance |       | < 5 m $\Omega$   |

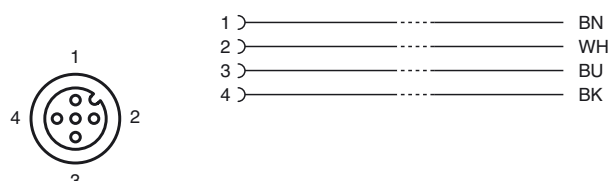
#### Ambient conditions

|                     |  |
|---------------------|--|
| Ambient temperature | Body: -40 ... 90 °C (-40 ... 194 °F)<br>cable, flexing: -25 ... 80 °C (-13 ... 176 °F)<br>cable, fixed: -40 ... 80 °C (-40 ... 176 °F) |
| Pollution degree    | 3  |

#### Mechanical specifications

|                        |  |
|------------------------|--|
| Contact elements       | spring-loaded contact socket                                 |
| Pin diameter           | 1 mm   |
| Degree of protection   | IP67 / IP68 / IP69k  |
| Cable code             | Li 9Y 11Y 4 x 0.34   |
| Material               |  |
| Contacts               | CuSn / Au  |
| Contact surface        | Au   |
| Body                   | TPU, black   |
| Cable                  | PUR  |
| Slotted nut            | Stainless steel 1.4435 / AISI 316L                           |
| Core insulation        | PP   |
| Cable                  | extra-fine wire, flexible                                    |
| Sheath diameter        | $\varnothing$ 4.3 mm   |
| Bending radius         | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed |
| Color                  | black  |
| Cores                  | 4 x 0.34 mm <sup>2</sup>                                     |
| Conductor construction | 42 x 0.1 mm $\varnothing$                                    |
| Length                 | L 5 m  |
| Drag chain suitability |  |
| Drag chain cycles      | $\geq$ 5000000   |
| Motion velocity        | $\leq$ 3.3 m/s   |
| Torsional stress       | $\pm$ 180 °/m  |
| Flammability           |  |
| Contact carrier        | 94 HB  |
| Housing                | 94 V-2   |
| Cable                  | FT2  |

### Electrical connection





Note

**Compliance with standards and directives**

Standard conformity

Degree of protection EN 60529:2000

Standards IEC 61076-2-101:2008

Flammability Body: UL 94  
Line: UL 1581 Section 1061; IEC 60332-1-2:2004

Halogen-free IEC 60754-1:1994

**Approvals and certificates**

UL approval cURus AWM 20549 AWM I/II A/B 80°C 300V FT2 (cable)

Maximum permissible operating voltage ≤ 30 V

Maximum permissible ambient temperature ≤ 80 °C (≤ 176 °F)

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