



**Model Number**

**V1-G-BK8M-PUR-U-V1-G**

Connection cable, M12 to M12, PUR cable, 4-pin

**Features**

- UL Recognized Component
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Gold plated contacts
- Flame resistant cable
- Halogen-free
- Degree of protection IP67 / IP68 / IP69K
- Suitable for drag chains

**Dimensions**



**Technical data**

**General specifications**

|                |         |
|----------------|---------|
| Number of pins | 4       |
| UL File Number | E231213 |

**Electrical specifications**

|                   |       |                            |
|-------------------|-------|----------------------------|
| Operating voltage | $U_B$ | max. 250 V AC/DC           |
| Test voltage      |       | > 1500 V <sub>eff</sub> AC |
| Operating current | $I_B$ | max. 4 A                   |
| Volume resistance |       | < 5 mΩ                     |

**Ambient conditions**

|                     |                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature | -40 ... 90 °C (-40 ... 194 °F)<br>cable, fixed: -40 ... 80 °C (-40 ... 176 °F)<br>cable, flexing: -20 ... 80 °C (-4 ... 176 °F) |
| Pollution degree    | 3                                                                                                                               |

**Mechanical specifications**

|                      |                              |
|----------------------|------------------------------|
| Contact elements     | spring-loaded contact socket |
| Pin diameter         | 1 mm                         |
| Degree of protection | IP67 / IP68 / IP69K          |

**Material**

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Contacts               | CuSn / Au                                                    |
| Contact surface        | Au                                                           |
| Body                   | TPU, black                                                   |
| Cable                  | PUR                                                          |
| Slotted nut            | Diecast zinc                                                 |
| Sleeve connector       | Diecast zinc                                                 |
| Core insulation        | PP                                                           |
| Cable                  | extra-fine wire, flexible                                    |
| Sheath diameter        | Ø 4.3 mm                                                     |
| Bending radius         | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed |
| Color                  | black                                                        |
| Number of cores        | 4                                                            |
| Core cross-section     | 0.34 mm <sup>2</sup>                                         |
| Conductor construction | 42 x 0.1 mm Ø                                                |
| Length                 | L 8 m                                                        |

**Drag chain suitability**

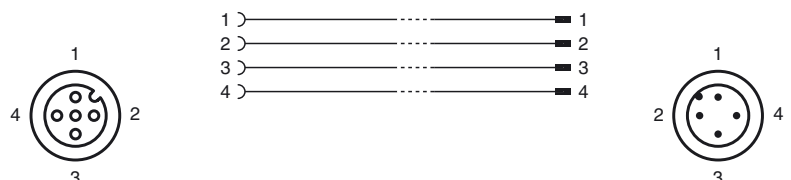
|                   |           |
|-------------------|-----------|
| Drag chain cycles | ≥ 5000000 |
| Motion velocity   | ≤ 3.3 m/s |
| Torsional stress  | ± 180 °/m |

**Flammability**

|                 |        |
|-----------------|--------|
| Contact carrier | 94 HB  |
| Housing         | 94 V-2 |
| Cable           | FT2    |

**Compliance with standards and directives**

**Electrical connection**



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

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**Standard conformity**

|                      |                                                               |
|----------------------|---------------------------------------------------------------|
| Degree of protection | EN 60529:2000                                                 |
| Standards            | IEC 61076-2-101:2008                                          |
| Flammability         | Body: UL 94<br>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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