



### Model Number

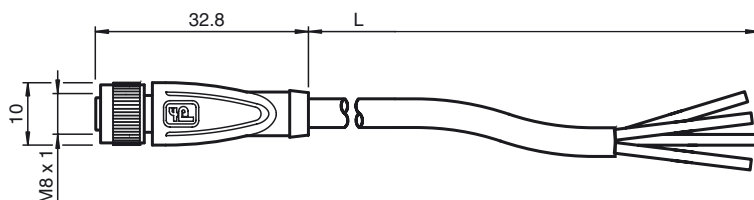
**V31-GM-BK2M-PUR-U**

Female cordset, M8, 4-pin, PUR cable

### Features

- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Raw cable with cURus approval
- Gold plated contacts
- Flame resistant cable
- Halogen-free
- Suitable for drag chains
- Suitable for 2-, 3- and 4-wire technology
- Resistant to microbes and hydrolysis

### Dimensions



### Technical data

#### General specifications

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

#### Electrical specifications

|                   |       |                |
|-------------------|-------|----------------|
| Operating voltage | $U_B$ | max. 30 V DC   |
| Operating current | $I_B$ | max. 3 A       |
| Volume resistance |       | < 5 m $\Omega$ |

#### Ambient conditions

|                     |   |
|---------------------|---|
| Ambient temperature | Body: -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                         |

#### Material

|                 |              |
|-----------------|--------------|
| Contacts        | CuSn / Au    |
| Contact surface | Au           |
| Body            | TPU, black   |
| Cable           | PUR          |
| Slotted nut     | Diecast zinc |
| Core insulation | PP           |

#### Cable

|                 |  |
|-----------------|--|
| Sheath diameter | $\varnothing$ 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 $\varnothing$ |
|------------------------|---------------------------|

|        |   |     |
|--------|---|-----|
| Length | L | 2 m |
|--------|---|-----|

#### Drag chain suitability

|                   |                                |
|-------------------|--------------------------------|
| Drag chain cycles | $\geq$ 5000000 (at max. 60 °C) |
| Motion velocity   | $\leq$ 3.3 m/s                 |
| Torsional stress  | $\pm$ 180 °/m                  |

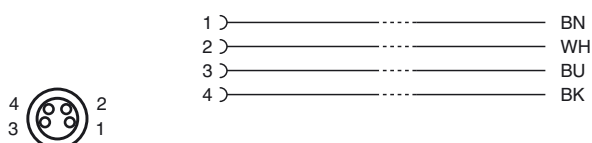
#### Flammability

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

#### Compliance with standards and directives

|                      |               |
|----------------------|---------------|
| Standard conformity  |               |
| Degree of protection | EN 60529:2000 |

### Electrical connection





|  |   |
|--|---|
| Standards  | IEC 61076-2-104:2008  |
| Flammability   | Body: UL 94<br>Line: UL 1581 Section 1061; IEC 60332-1-2:2004 |
| Halogen-free   | IEC 60754-1:1994/DIN VDE 0472-815                             |
| <b>Approvals and certificates</b>                          |   |
| 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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