



### Model Number

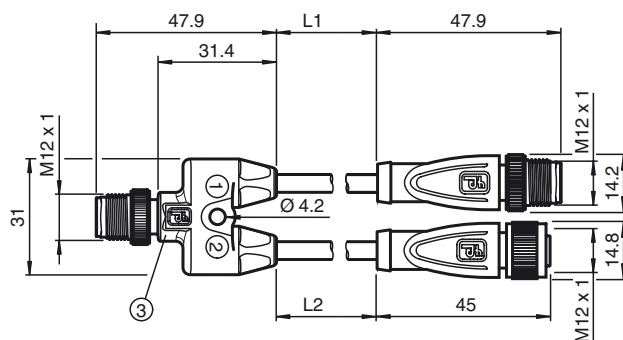
**V15/V15S-G-BK1M-PUR-U-TEE-V15**

Y-splitter cordset, M12 to 2xM12, 5-pin, PUR cable

### Features

- UL Recognized Component
- Simple assembling of 2 signals to one M12 plug-in station
- Immunity to vibration, with mechanical latching
- Suitable for drag chains
- Suitable for robotic applications / torsion resistant
- Flame resistant cable
- Halogen-free
- Resistant to microbes and hydrolysis
- Free from substances that impair paint wetting

### Dimensions



### Technical data

#### General specifications

|                     |                |
|---------------------|----------------|
| Number of pins      | 5              |
| Connection 1        | Male connector |
| Construction type 1 | straight       |
| Threading 1         | M12            |
| Connection 2        | socket         |
| Construction type 2 | straight       |
| Threading 2         | M12            |
| Connection 3        | Male connector |
| Construction type 3 | straight       |
| Threading 3         | M12            |
| UL File Number      | E231213        |

#### Electrical specifications

|                   |       |                          |
|-------------------|-------|--------------------------|
| Operating voltage | $U_B$ | 48 V AC<br>60 V DC       |
| Operating current | $I_B$ | max. 4 A                 |
| Volume resistance |       | $\leq 5 \text{ m}\Omega$ |
| Surge protection  |       | overvoltage category III |

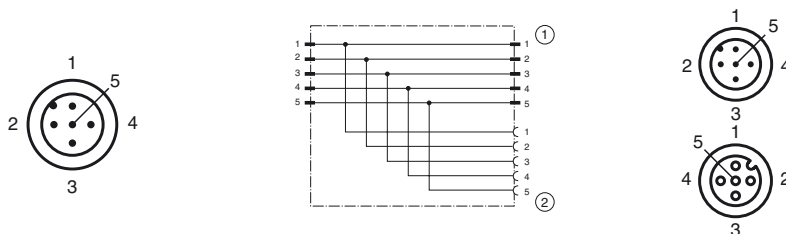
#### Ambient conditions

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

#### Mechanical specifications

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| Contact elements     | spring-loaded contact socket                                                          |
| Pin diameter         | 1 mm                                                                                  |
| Degree of protection | IP67                                                                                  |
| Connection           | 2 x M12 straight plug 1 x M12 straight socket                                         |
| 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      | Ø4.8 mm                                                                               |
| Bending radius       | > 10 x cable diameter, appropriate for conveyor chains<br>> 5 x cable diameter, fixed |
| Color                | dark grey (RAL 7021)                                                                  |
| Cores                | 22 AWG                                                                                |
| Number of cores      | 5                                                                                     |
| Core cross-section   | 0.34 mm <sup>2</sup>                                                                  |

### Electrical connection





|                                                 |   |                                        |
|-------------------------------------------------|---|----------------------------------------|
| Conductor construction                          |   | 42 x 0.1 mm Ø                          |
| Length                                          | L | L1 = 1 m<br>L2 = 1 m                   |
| Drag chain suitability                          |   |                                        |
| Drag chain cycles                               |   | ≥ 5000000 (at max. 60 °C)              |
| Motion velocity                                 |   | ≤ 3.3 m/s                              |
| Traverse distance                               |   | 5 m horizontal                         |
| Acceleration                                    |   | ≤ 5 m/s <sup>2</sup>                   |
| Torsion cycles                                  |   | ≥ 1000000 (at max. 60 °C)              |
| Torsional stress                                |   | ± 180 °/m                              |
| Flammability                                    |   |                                        |
| Contact carrier                                 |   | 94 HB                                  |
| Housing                                         |   | 94 V-2                                 |
| Cable                                           |   | FT2                                    |
| <b>Compliance with standards and directives</b> |   |                                        |
| Standard conformity                             |   |                                        |
| Degree of protection                            |   | EN 60529:2000                          |
| Standards                                       |   | IEC 61076-2-101:2008                   |
| Flammability                                    |   | Grip: UL 94<br>Cable: UL 758 / UL 1581 |
| Halogen-free                                    |   | IEC 60754-1:1994/DIN VDE 0472-815      |
| <b>Approvals and certificates</b>               |   |                                        |
| UL approval                                     |   | UL Recognized General purpose          |
| Maximum permissible operating voltage           |   | ≤ 60 V                                 |
| Maximum permissible ambient temperature         |   | ≤ 80 °C (≤ 176 °F)                     |

**Accessories**

**MH V1-SCREWDRIVER**  
torque screwdriver (0.6 Nm)

**MH V1-BIT M12**  
plug-in cap M12

**V1/V3-LABELHOLDER**  
Label holder

**V1/V3-LABEL**  
Label plate

**MH V1-Holder**  
Modular universal holder for M12 connectors

**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