



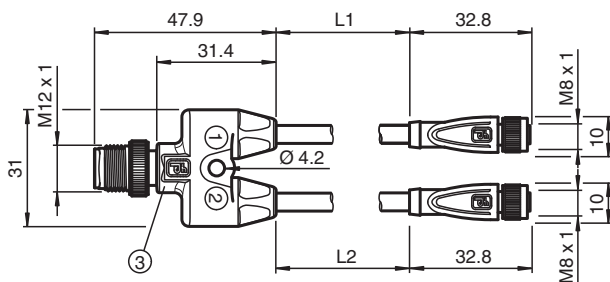
## Y connection cable V3-GM-BK2M-PUR-U-T-V1-G

- Easy merging of two signals at a single M12 slot
- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Y connection cable M12 plug straight A-coded 4-pin to 2x M8 socket straight A-coded 3-pin, 2x PUR cable black, UL approved, drag chain suitable, torsion resistant



### Dimensions



### Technical Data

#### General specifications

|                   |  |                  |
|-------------------|--|------------------|
| Connector 1       |  |                  |
| Connection        |  | socket           |
| Construction type |  | M8               |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 3                |
| Coding            |  | A-coded          |
| Connector 2       |  |                  |
| Connection        |  | socket           |
| Construction type |  | M8               |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 3                |
| Coding            |  | A-coded          |
| Connector 3       |  |                  |
| Connection        |  | plug             |
| Construction type |  | M12              |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 4                |

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

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## Technical Data

|                                       |                |                                                                                         |
|---------------------------------------|----------------|-----------------------------------------------------------------------------------------|
| Coding                                | A-coded        |                                                                                         |
| Electrical specifications             |                |                                                                                         |
| Operating voltage                     | U <sub>B</sub> | max. 48 V AC / 60 V DC                                                                  |
| Operating current                     | I <sub>B</sub> | max. 3 A                                                                                |
| Conformity                            |                |                                                                                         |
| Degree of protection                  |                | EN 60529                                                                                |
| Plug connection                       |                | connector M8 x 1 : IEC 61076-2-104                                                      |
| Flammability                          |                | UL 1581; DIN EN 60332-2-2                                                               |
| Halogen-free                          |                | IEC 60754-1                                                                             |
| Approvals and certificates            |                |                                                                                         |
| UL approval                           |                | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)                                      |
| Maximum permissible operating voltage |                | max. 30 V AC/DC                                                                         |
| UL File Number                        |                | E231213                                                                                 |
| Ambient conditions                    |                |                                                                                         |
| Ambient temperature                   |                |                                                                                         |
| Plug connector                        |                | -40 ... 90 °C (-40 ... 194 °F)                                                          |
| Cable, fixed installation             |                | -40 ... 80 °C (-40 ... 176 °F)                                                          |
| Cable, flexing                        |                | -20 ... 80 °C (-4 ... 176 °F)                                                           |
| Pollution degree                      |                | 3                                                                                       |
| Mechanical specifications             |                |                                                                                         |
| Plug connector                        |                |                                                                                         |
| Tightening torque                     |                | 0.4 Nm                                                                                  |
| Loosening protection                  |                | integrated                                                                              |
| Tool installation                     |                | straight knurling                                                                       |
| Mating cycles                         |                | min. 100                                                                                |
| Degree of protection                  |                | IP67                                                                                    |
| Cable                                 |                | according to IEC/EN 60228 (DIN VDE 0295) class 6                                        |
| Sheath diameter                       |                | 4.3 mm                                                                                  |
| Bending radius                        |                | > 10 x cable diameter, movable installation<br>> 5 x cable diameter, fixed installation |
| Sheath stripping force                |                | max. 80 N / 300 mm                                                                      |
| Sheath color                          |                | black (similar to RAL 9005)                                                             |
| Number of cores                       |                | 3                                                                                       |
| Core cross section                    |                | 0.34 mm²                                                                                |
| Cores color                           |                | Core 1: brown<br>Core 2: blue<br>Core 3: black                                          |
| Core construction                     |                | 42 x 0.1 mm Ø                                                                           |
| Length                                | L              | 2 m                                                                                     |
| Cable code                            |                | Li F 9Y 11Y 3 x 0,34                                                                    |
| Drag chain suitability                |                |                                                                                         |
| Drag chain cycles                     |                | min. 5000000                                                                            |
| Motion velocity                       |                | max. 3.3 m/s                                                                            |
| Traverse distance                     |                | max. 5 m                                                                                |
| Acceleration                          |                | max. 5 m/s²                                                                             |
| Torsion cycles                        |                | min. 1000000                                                                            |
| Torsional stress                      |                | ± 180 °/m                                                                               |
| Mass                                  |                | 126.77 g                                                                                |
| Material                              |                |                                                                                         |
| PWIS free                             |                | yes                                                                                     |
| Halogen-free                          |                | yes                                                                                     |
| Plug connector                        |                |                                                                                         |
| Screw connection                      |                | Zinc diecast, nickel-plated                                                             |
| Body                                  |                | TPU, black                                                                              |

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Technical Data

|                              |                        |
|------------------------------|------------------------|
| Seal                         | FKM                    |
| Contact surface              | gold plated (Au)       |
| Flammability                 | V-2                    |
| Cable                        |                        |
| Sheathing                    | PUR based on polyether |
| Cores                        | bare copper (Cu)       |
| Core insulation              | PP                     |
| UV resistance                | yes                    |
| Chemical resistance          | good                   |
| Oil resistance               | yes                    |
| Cooling lubricant resistance | yes                    |
| Microbial resistance         | yes                    |
| Hydrolysis resistance        | yes                    |
| Flammability                 | FT2                    |

Connection Assignment

