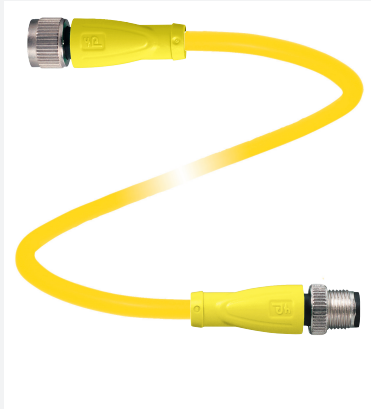




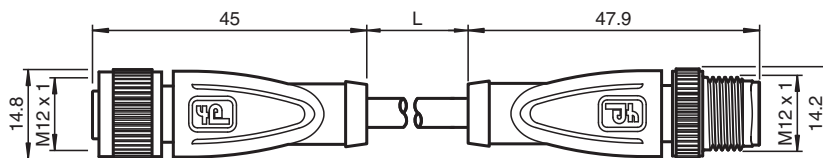
## Connection cable V1-G-S-YE2M-PUR-A-V1-G

- Improved resistance to weld spatter
- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP67 / IP68 / IP69
- Free from substances that impair paint wetting
- Resistant to microbes and hydrolysis
- cURus approval
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Cordset M12 socket yellow straight to M12 plug yellow straight A-coded, 4-pin, PUR cable weld spatter resistant yellow, UL approved, drag chain suitable, torsion resistant



### Dimensions



### Technical Data

#### General specifications

|                   |                  |
|-------------------|------------------|
| Connector 1       |                  |
| Connection        | socket           |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | plug             |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 4                |
| Coding            | A-coded          |
| UL File Number    | E231213          |

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

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 **PEPPERL+FUCHS**

## Technical Data

### Electrical specifications

|                   |                |                  |
|-------------------|----------------|------------------|
| Operating voltage | U <sub>B</sub> | max. 250 V AC/DC |
| Operating current | I <sub>B</sub> | max. 4 A         |

### Conformity

|                       |  |                                     |
|-----------------------|--|-------------------------------------|
| Degree of protection  |  | EN 60529                            |
| Plug connection       |  | connector M12 x 1 : IEC 61076-2-101 |
| Flammability          |  | UL 1581; DIN EN 60332-2-2           |
| Halogen-free          |  | DIN VDE 0472-815<br>IEC 60754-1     |
| Microbial resistance  |  | DIN EN 50525-2-21 / DIN VDE 0282-10 |
| Hydrolysis resistance |  | DIN EN 50525-2-21                   |

### Approvals and certificates

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

### Ambient conditions

|                     |  |                                |
|---------------------|--|--------------------------------|
| Ambient temperature |  |                                |
| Plug connector      |  | -40 ... 90 °C (-40 ... 194 °F) |
| Cable, fixed        |  | -40 ... 80 °C (-40 ... 176 °F) |
| Cable, flexing      |  | -25 ... 80 °C (-13 ... 176 °F) |
| Pollution degree    |  | 3                              |

### Mechanical specifications

|                        |   |                                                                                     |
|------------------------|---|-------------------------------------------------------------------------------------|
| Plug connector         |   |                                                                                     |
| Tightening torque      |   | 0.6 Nm                                                                              |
| Loosening protection   |   | available                                                                           |
| Tool installation      |   | straight knurling                                                                   |
| Mating cycles          |   | min. 100                                                                            |
| Degree of protection   |   | IP67 / IP68 / IP69                                                                  |
| Cable                  |   | according to IEC/EN 60228 (DIN VDE 0295) class 6                                    |
| Sheath diameter        |   | 4.7 mm                                                                              |
| Bending radius         |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed                        |
| Sheath stripping force |   | max. 50 N / 300 mm                                                                  |
| Sheath color           |   | yellow (similar to RAL 1021)                                                        |
| Number of cores        |   | 5                                                                                   |
| Core cross-section     |   | 0.34 mm <sup>2</sup>                                                                |
| Cores color            |   | Core 1: brown<br>Core 2: white<br>Core 3: blue<br>Core 4: black<br>Core 5: not used |
| Core construction      |   | 42 x 0.1 mm Ø                                                                       |
| Length                 | L | 2 m                                                                                 |
| Cable code             |   | Li F 9Y 11Y 5 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/s <sup>2</sup>                                                             |
| Torsion cycles         |   | min. 1000000                                                                        |
| Torsional stress       |   | ± 180 °/m                                                                           |

### Material

|                          |  |                             |
|--------------------------|--|-----------------------------|
| LABS free                |  | yes                         |
| Halogen-free             |  | yes                         |
| Plug connector           |  |                             |
| Knurled screw connection |  | Zinc diecast, nickel-plated |
| Body                     |  | TPU, yellow                 |

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Technical Data

|                              |                        |
|------------------------------|------------------------|
| Contact surface              | Au                     |
| Flammability                 | V-2                    |
| Cable                        |                        |
| Sheathing                    | PUR based on polyether |
| Core insulation              | PP                     |
| Weld spatter resistance      | yes                    |
| Chemical resistance          | good                   |
| Oil resistance               | yes                    |
| Cooling lubricant resistance | yes                    |
| Microbial resistance         | yes                    |
| Hydrolysis resistance        | yes                    |
| Flammability                 | FT2                    |

Connection Assignment

