

## Y connection cable

### V1S/V1-YE0,15-PUR-A-TEE-0,6-V1

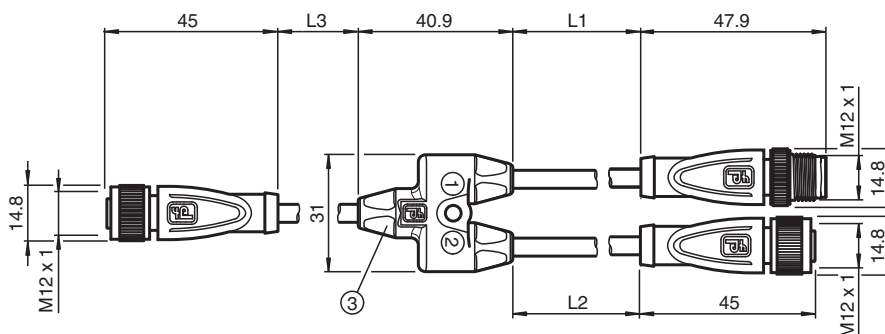


- Easy merging of two signals at a single M12 slot
- Improved resistance to weld spatter
- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP67 / IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- cURus approval
- Halogen-free
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching

Y connection cable M12 socket straight A-coded to M12 plug / M12 socket straight A-coded, 4-pin, 3x PUR cable weld spatter resistant yellow, UL approved, drag chain suitable, torsion resistant



## Dimensions



## Technical Data

### General specifications

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

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

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**PEPPERL+FUCHS**

## Technical Data

|                                       |                |                                                                                     |
|---------------------------------------|----------------|-------------------------------------------------------------------------------------|
| Locking                               |                | screw connection                                                                    |
| Number of pins                        |                | 4                                                                                   |
| Coding                                |                | A-coded                                                                             |
| UL File Number                        |                | E231213                                                                             |
| <b>Electrical specifications</b>      |                |                                                                                     |
| Operating voltage                     | U <sub>B</sub> | max. 48 V AC / 60 V DC                                                              |
| Operating current                     | I <sub>B</sub> | max. 4 A                                                                            |
| <b>Conformity</b>                     |                |                                                                                     |
| 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                                                                   |
| <b>Approvals and certificates</b>     |                |                                                                                     |
| UL approval                           |                | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)                                  |
| Maximum permissible operating voltage |                | max. 30 V AC/DC                                                                     |
| <b>Ambient conditions</b>             |                |                                                                                     |
| 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                                                                                   |
| <b>Mechanical specifications</b>      |                |                                                                                     |
| 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              | L1 = 0.15 m<br>L2 = 0.15 m<br>L3 = 0.6 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                                                                           |

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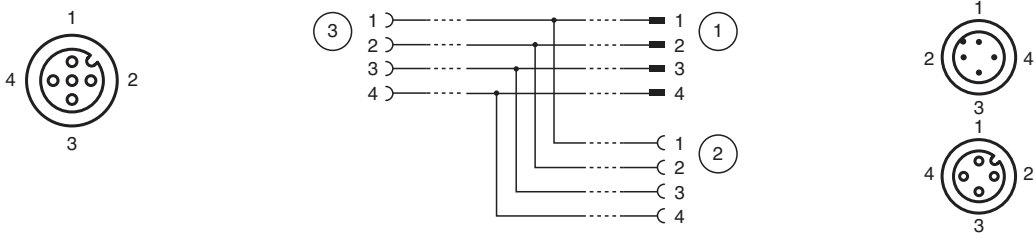
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Technical Data

|                              |  |                             |
|------------------------------|--|-----------------------------|
| Material                     |  |                             |
| PWIS free                    |  | yes                         |
| Halogen-free                 |  | yes                         |
| Plug connector               |  |                             |
| Screw connection             |  | Zinc diecast, nickel-plated |
| Body                         |  | TPU, black                  |
| 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



Accessories

|                                                                                     |                              |                                                  |
|-------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|
|  | <b>MH V1-SCREWDRIVER</b>     | Torque screwdriver (0.6 Nm)                      |
|  | <b>MH V1-BIT M12</b>         | plug-in cap M12                                  |
|  | <b>V1/V3-LABELHOLDER</b>     | Label holder                                     |
|  | <b>V1/V3-LABEL</b>           | Label plate                                      |
|  | <b>MH V1-Holder</b>          | Modular universal holder for M12 connectors      |
|  | <b>V1-CLIP</b>               | Unlocking protector for M12 connector            |
|  | <b>V1-MARKING-RING-COLOR</b> | Marking rings for M12 connectors, various colors |