

# Connection cable

## V19-G-BK0,3M-PUR-U-V15-G-Y7016

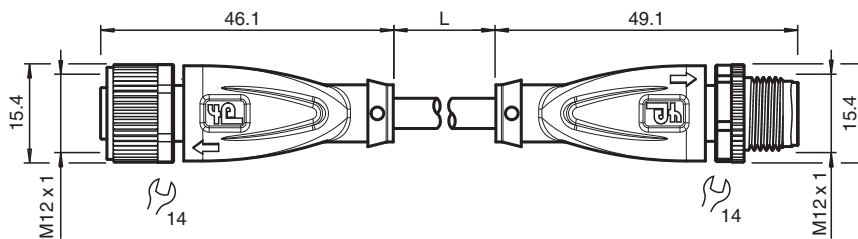


- Suitable for drag chains and abrasion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation
- Customer-specific configuration

Cordset M12 socket straight A-coded 8-pin to M12 plug straight A-coded 5-pin, PUR cable black, UL approved, drag chain suitable



### Dimensions



### Technical Data

#### General specifications

| Connector 1       |                  |
|-------------------|------------------|
| Connection        | socket           |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 8                |
| Coding            | A-coded          |
| Connector 2       |                  |
| Connection        | plug             |
| Construction type | M12              |
| Style             | straight         |
| Locking           | screw connection |
| Number of pins    | 5                |
| Coding            | A-coded          |

#### Electrical specifications

|                   |       |                 |
|-------------------|-------|-----------------|
| Operating voltage | $U_B$ | max. 30 V AC/DC |
| Operating current | $I_B$ | max. 2 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 0472-803                    |

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

## Technical Data

| Approvals and certificates                       |   |                                                                                                                                  |
|--------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------|
| UL approval                                      |   | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)                                                                               |
| UL File Number                                   |   | E231213                                                                                                                          |
| Ambient conditions                               |   |                                                                                                                                  |
| Ambient temperature                              |   |                                                                                                                                  |
| Plug connector                                   |   | -40 ... 90 °C (-40 ... 194 °F)                                                                                                   |
| Cable, fixed                                     |   | -40 ... 80 °C (-40 ... 176 °F)                                                                                                   |
| Cable, flexing                                   |   | -20 ... 80 °C (-4 ... 176 °F)                                                                                                    |
| Pollution degree                                 |   | 3                                                                                                                                |
| Mechanical specifications                        |   |                                                                                                                                  |
| Plug connector                                   |   |                                                                                                                                  |
| Tightening torque                                |   | 0.6 Nm                                                                                                                           |
| Loosening protection                             |   | available                                                                                                                        |
| Tool installation                                |   | straight knurling and hexagon nut SW = 14 mm                                                                                     |
| Mating cycles                                    |   | min. 100                                                                                                                         |
| Degree of protection                             |   | IP68 / IP69                                                                                                                      |
| Cable                                            |   |                                                                                                                                  |
| according to IEC/EN 60228 (DIN VDE 0295) class 6 |   |                                                                                                                                  |
| Sheath diameter                                  |   | 6 mm                                                                                                                             |
| Bending radius                                   |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed                                                                     |
| Sheath stripping force                           |   | max. 50 N / 300 mm                                                                                                               |
| Sheath color                                     |   | black (similar to RAL 9005)                                                                                                      |
| Number of cores                                  |   | 8                                                                                                                                |
| Core cross section                               |   | 0.25 mm <sup>2</sup>                                                                                                             |
| Cores color                                      |   | Core 1: white<br>Core 2: brown<br>Core 3: green<br>Core 4: yellow<br>Core 5: grey<br>Core 6: pink<br>Core 7: blue<br>Core 8: red |
| Core construction                                |   | 32 x 0.1 mm Ø                                                                                                                    |
| Length                                           | L | see type code V*-[length]M-*                                                                                                     |
| Cable code                                       |   | Li 9Y 11Y 8 x 0,25                                                                                                               |
| Drag chain suitability                           |   |                                                                                                                                  |
| Drag chain cycles                                |   | min. 5000000                                                                                                                     |
| Motion velocity                                  |   | max. 3 m/s                                                                                                                       |
| Traverse distance                                |   | max. 10 m                                                                                                                        |
| Acceleration                                     |   | max. 5 m/s <sup>2</sup>                                                                                                          |
| Material                                         |   |                                                                                                                                  |
| PWIS free                                        |   | yes                                                                                                                              |
| Halogen-free                                     |   | yes                                                                                                                              |
| Plug connector                                   |   |                                                                                                                                  |
| Screw connection                                 |   | Zinc diecast, nickel-plated                                                                                                      |
| Body                                             |   | TPU, black                                                                                                                       |
| Seal                                             |   | FKM                                                                                                                              |
| Contact surface                                  |   | gold plated (Au)                                                                                                                 |
| Flammability                                     |   | V-2                                                                                                                              |
| Cable                                            |   |                                                                                                                                  |
| Sheathing                                        |   | PUR based on polyether                                                                                                           |
| Core insulation                                  |   | PP                                                                                                                               |
| Microbial resistance                             |   | yes                                                                                                                              |
| Hydrolysis resistance                            |   | yes                                                                                                                              |
| Flammability                                     |   | FT2                                                                                                                              |

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Pepperl+Fuchs Group  
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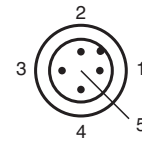
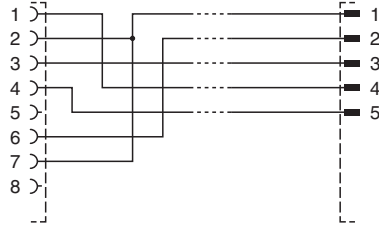
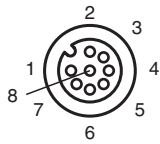
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## Connection



## 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 |