

# Connection cable, shielded

## V19-W-BK0,6M-PUR-U/ABG-V19-G



- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Shield connected to screw connection
- Specific design protects against loosening and inaccurate installation

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



### Dimensions



### Technical Data

#### General specifications

|                                  |       |                                     |
|----------------------------------|-------|-------------------------------------|
| <b>Connector 1</b>               |       |                                     |
| Connection                       |       | socket                              |
| Construction type                |       | M12                                 |
| Style                            |       | angled                              |
| Locking                          |       | screw connection                    |
| Number of pins                   |       | 8                                   |
| Coding                           |       | A-coded                             |
| <b>Connector 2</b>               |       |                                     |
| Connection                       |       | plug                                |
| Construction type                |       | M12                                 |
| Style                            |       | straight                            |
| Locking                          |       | screw connection                    |
| Number of pins                   |       | 8                                   |
| Coding                           |       | A-coded                             |
| <b>Electrical specifications</b> |       |                                     |
| Operating voltage                | $U_B$ | max. 30 V AC/DC                     |
| Operating current                | $I_B$ | max. 2 A                            |
| <b>Conformity</b>                |       |                                     |
| Degree of protection             |       | EN 60529                            |
| Plug connection                  |       | connector M12 x 1 : IEC 61076-2-101 |

Release date: 2023-07-05 Date of issue: 2023-07-05 Filename: 241552\_eng.pdf

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

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## Technical Data

|                                   |   |  |
|-----------------------------------|---|--|
| Flammability                      |   | UL 1581; DIN EN 60332-2-2  |
| Halogen-free                      |   | IEC 60754-1  |
| Microbial resistance              |   | EN 50363   |
| Hydrolysis resistance             |   | EN 50363   |
| <b>Approvals and certificates</b> |   |  |
| UL approval                       |   | AWM STYLE 20549 I/II A/B 80°C 300V FT2 (cable)   |
| UL File Number                    |   | E231213  |
| <b>Ambient conditions</b>         |   |  |
| 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  |
| <b>Mechanical specifications</b>  |   |  |
| Plug connector                    |   |  |
| Tightening torque                 |   | 0.6 Nm   |
| Loosening protection              |   | available  |
| Tool installation                 |   | straight knurling and hexagon nut SW = 14 mm   |
| Mating cycles                     |   | min. 100   |
| Shielding                         |   | shield connected to screw connection   |
| Degree of protection              |   | IP68 / IP69  |
| Cable                             |   |  |
| Sheath diameter                   |   | 6 mm   |
| Bending radius                    |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed   |
| Sheath stripping force            |   | max. 80 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  |
| Shield                            |   | tinned copper braiding, 85 % coverage  |
| Length                            | L | 0.6 m  |
| Cable code                        |   | Li 9Y C 11Y 8 x 0,25   |
| Drag chain suitability            |   |  |
| Drag chain cycles                 |   | min. 5000000   |
| Motion velocity                   |   | max. 3 m/s   |
| Traverse distance                 |   | max. 5 m   |
| Acceleration                      |   | max. 5 m/s <sup>2</sup>  |
| <b>Material</b>                   |   |  |
| 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                             |   |  |

Release date: 2023-07-05 Date of issue: 2023-07-05 Filename: 2411552\_eng.pdf

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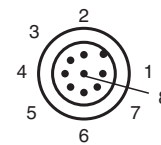
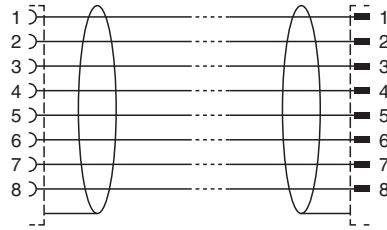
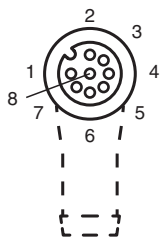
Pepperl+Fuchs Group  
www.pepperl-fuchs.comUSA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.comGermany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.comSingapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

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### Technical Data

|                              |                        |
|------------------------------|------------------------|
| Sheathing                    | PUR based on polyether |
| 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



### 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 |

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