

# Connection cable

## V19-G-BK20M-PUR-U-V19-G

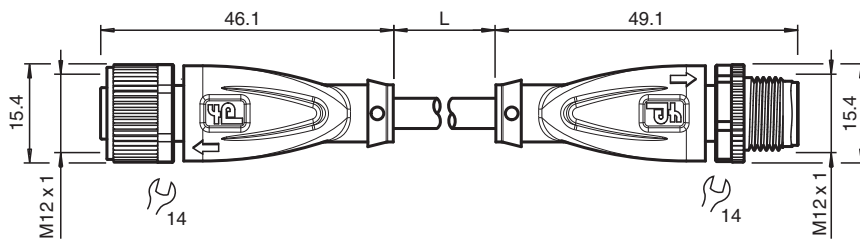


- Suitable for drag chains and abrasion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Cordset M12 socket straight to M12 plug straight A-coded, 8-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    |  | 8                |
| 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         |  | IEC 60754-1                         |

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## Technical Data

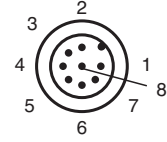
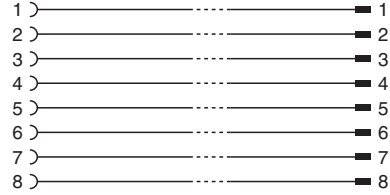
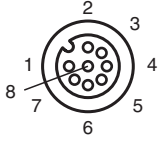
|                                   |   |  |
|-----------------------------------|---|--|
| <b>Approvals and certificates</b> |   |  |
| UL approval                       |   | AWM STYLE 20549 AWM I/II A/B 80°C 300V FT2 (cable)   |
| UL File Number                    |   | E231213  |
| <b>Ambient conditions</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   |
| 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. 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 | 20 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>  |
| Mass                              |   | 957.1 g  |
| <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                             |   |  |
| Sheathing                         |   | PUR based on polyether   |
| Cores                             |   | bare copper (Cu)   |
| Core insulation                   |   | PP   |
| UV resistance                     |   | yes  |
| Chemical resistance               |   | good   |

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**Technical Data**

|                              |     |
|------------------------------|-----|
| Oil resistance               | yes |
| Cooling lubricant resistance | yes |
| Microbial resistance         | yes |
| Hydrolysis resistance        | yes |
| Flammability                 | FT2 |

**Connection**



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