

# Cable connector

## V19S-W-BK5M-PUR-U

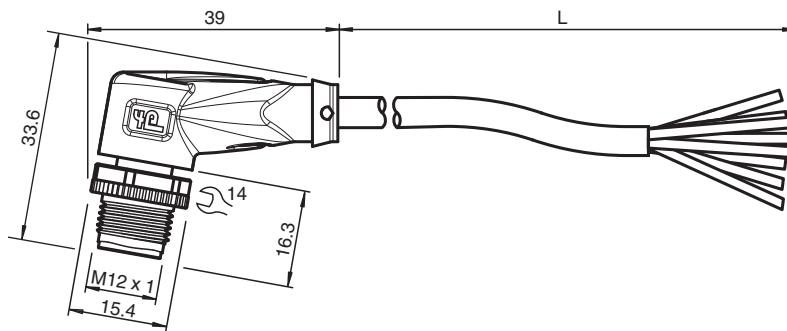


- Suitable for drag chains and abrasion resistant
- Degree of protection IP68 / IP69
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UL listed for USA and Canada
- UV resistant
- Halogen-free
- Specific design protects against loosening and inaccurate installation

Male cordset single-ended M12 angled A-coded, 8-pin, PUR cable black, UL approved, drag chain suitable



### Dimensions



### Technical Data

#### General specifications

|                   |  |                  |
|-------------------|--|------------------|
| Connector 1       |  |                  |
| Connection        |  | plug             |
| Construction type |  | M12              |
| Style             |  | angled           |
| Locking           |  | screw connection |
| Number of pins    |  | 8                |
| Coding            |  | A-coded          |
| Connector 2       |  |                  |
| Connection        |  | cable end        |

#### 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                         |

#### Approvals and certificates

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

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

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## Technical Data

|                                  |   |                                                                                                                                  |
|----------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------|
| 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                            |   | 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 | 5 m                                                                                                                              |
| Cable code                       |   | Li 9Y 11Y 8 x 0,25                                                                                                               |
| <b>Drag chain suitability</b>    |   |                                                                                                                                  |
| 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                             |   | 242 g                                                                                                                            |
| <b>Material</b>                  |   |                                                                                                                                  |
| PWIS free                        |   | yes                                                                                                                              |
| Halogen-free                     |   | yes                                                                                                                              |
| Plug connector                   |   |                                                                                                                                  |
| Screw connection                 |   | Zinc diecast, nickel-plated                                                                                                      |
| Body                             |   | TPU, black                                                                                                                       |
| Contact surface                  |   | gold plated (Au)                                                                                                                 |
| Flammability                     |   | V-2                                                                                                                              |
| <b>Cable</b>                     |   |                                                                                                                                  |
| Sheathing                        |   | PUR based on polyether                                                                                                           |
| Cores                            |   | bare copper (Cu)                                                                                                                 |
| Core insulation                  |   | PP                                                                                                                               |
| UV resistance                    |   | yes                                                                                                                              |
| Chemical resistance              |   | good                                                                                                                             |
| Oil resistance                   |   | yes                                                                                                                              |
| Cooling lubricant resistance     |   | yes                                                                                                                              |
| Microbial resistance             |   | yes                                                                                                                              |

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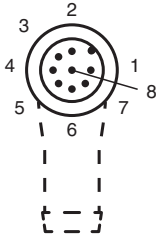
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Technical Data

|                       |     |
|-----------------------|-----|
| Hydrolysis resistance | yes |
| Flammability          | FT2 |

Connection



|   |    |
|---|----|
| 1 | WH |
| 2 | BN |
| 3 | GN |
| 4 | YE |
| 5 | GY |
| 6 | PK |
| 7 | BU |
| 8 | RD |

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