

# Cable connector

## V3S-GM-BK3M-PUR-U

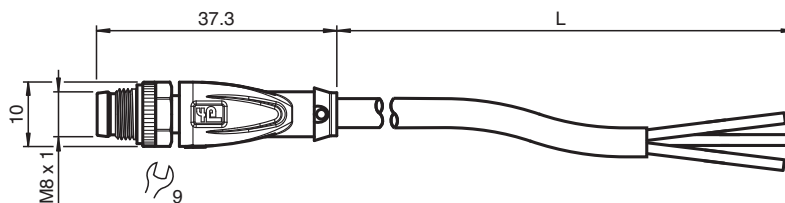


- Suitable for drag chains and abrasion resistant
- Suitable for robotic applications / torsion resistant
- Degree of protection IP68
- Free of paint wetting interfering substances
- Resistant to microbes and hydrolysis
- UV resistant
- UL listed for USA and Canada
- Halogen-free
- Specific design protects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

Male cordset single-ended M8 straight A-coded, 3-pin, PUR cable black, UL-approved, drag chain suitable, torsion resistant



### Dimensions



### Technical Data

| General specifications     |                |                                                    |  |
|----------------------------|----------------|----------------------------------------------------|--|
| Connector 1                |                |                                                    |  |
| Connection                 |                | plug                                               |  |
| Construction type          |                | M8                                                 |  |
| Style                      |                | straight                                           |  |
| Locking                    |                | screw connection                                   |  |
| Number of pins             |                | 3                                                  |  |
| Coding                     |                | A-coded                                            |  |
| Connector 2                |                |                                                    |  |
| Connection                 |                | cable end                                          |  |
| Electrical specifications  |                |                                                    |  |
| Operating voltage          | U <sub>B</sub> | max. 48 V AC / 60 V DC                             |  |
| Operating current          | I <sub>B</sub> | max. 4 A                                           |  |
| Conformity                 |                |                                                    |  |
| Degree of protection       |                | EN 60529                                           |  |
| Plug connection            |                | connector M8 x 1 : IEC 61076-2-104                 |  |
| 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) |  |
| UL File Number             |                | E231213                                            |  |
| Ambient conditions         |                |                                                    |  |
| Ambient temperature        |                |                                                    |  |

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

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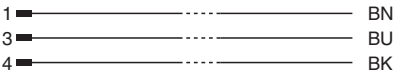
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## Technical Data

|                                  |   |                                                              |
|----------------------------------|---|--------------------------------------------------------------|
| 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                |   | 0.4 Nm                                                       |
| Loosening protection             |   | available                                                    |
| Tool installation                |   | straight knurling and hexagon nut SW = 9 mm                  |
| Mating cycles                    |   | min. 100                                                     |
| Degree of protection             |   | IP68                                                         |
| Cable                            |   | according to IEC/EN 60228 (DIN VDE 0295) class 6             |
| Sheath diameter                  |   | 4.3 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                  |   | 3                                                            |
| Core cross section               |   | 0.34 mm <sup>2</sup>                                         |
| Cores color                      |   | Core 1: brown<br>Core 3: blue<br>Core 4: black               |
| Core construction                |   | 42 x 0.1 mm Ø                                                |
| Length                           | L | 3 m                                                          |
| Cable code                       |   | Li F 9Y 11Y 3 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                                                    |
| <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                                                          |
| Cable                            |   |                                                              |
| 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                                                          |

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Connection



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