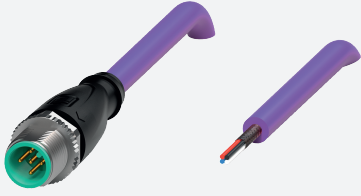


# Cable connector

## V15S-G-VT1M-PUR-U/CAN

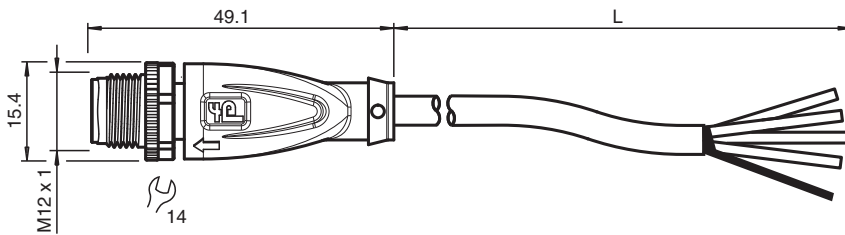


- Suitable for DeviceNet and CANopen
- Suitable for drag chains and abrasion resistant
- Degree of protection IP68 / IP69
- Resistant to microbes and hydrolysis
- Resistant to salt water
- UL listed for USA and Canada
- Halogen-free
- Specific design protects against loosening and inaccurate installation

DeviceNet/CANOpen bus cable male cordset single-ended M12 straight A-coded, 5-pin, PUR cable violet, shielded, UL approved, drag chain suitable, salt water resistant



### Dimensions



### Technical Data

#### General specifications

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

#### Electrical specifications

|                          |       |  |
|--------------------------|-------|--|
| Operating voltage        | $U_B$ | max. 48 V AC / 60 V DC                                   |
| Test voltage             |       | core/core: 3000 V (1 min)<br>core/shield: 3000 V (1 min) |
| Operating current        | $I_B$ | max. 4 A   |
| Characteristic impedance |       | 120 $\Omega$ $\pm$ 12 $\Omega$ (1 MHz)                   |

#### Conformity

|                      |   |
|----------------------|---|
| Degree of protection | EN 60529  |
| Plug connection      | connector M12 x 1 : IEC 61076-2-101                         |
| Flammability         | IEC 60332-1-2 / UL 2556 / ISO 6722-1 5.22 (UN ECE-R 118.01) |
| Halogen-free         | IEC 60754-1   |
| Chemical resistance  | DIN EN 60811-2-1  |
| Oil resistance       | DIN EN 60811-2-1  |

#### Approvals and certificates

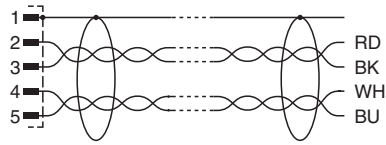
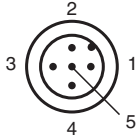
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## Technical Data

|                                  |   |   |
|----------------------------------|---|---|
| UL approval                      |   | CMX listed (cable)  |
| UL File Number                   |   | E231213   |
| <b>Ambient conditions</b>        |   |   |
| Ambient temperature              |   |   |
| Plug connector                   |   | -25 ... 90 °C (-13 ... 194 °F)                                |
| Cable, fixed                     |   | -20 ... 80 °C (-4 ... 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 pin 1 and screw connection                |
| Degree of protection             |   | IP68 / IP69   |
| Cable                            |   | according to IEC/EN 60228 (DIN VDE 0295) class 5              |
| Sheath diameter                  |   | 6.1 mm  |
| Bending radius                   |   | > 8 x cable diameter, moving<br>> 4 x cable diameter, fixed   |
| Sheath stripping force           |   | max. 60 N / 100 mm  |
| Sheath color                     |   | violet (similar to RAL 4001)                                  |
| Number of cores                  |   | 4   |
| Core cross section               |   | 0.34 mm <sup>2</sup>  |
| Cores color                      |   | Core 1: red<br>Core 2: black<br>Core 3: white<br>Core 4: blue |
| Core construction                |   | 7 x 0.254 mm Ø<br>twisted quad                                |
| Shield                           |   | tinned copper braiding, 80 % coverage                         |
| Length                           | L | 1 m   |
| Cable code                       |   | Li 9Y 11Y 4 x 0.34  |
| Drag chain suitability           |   |   |
| Drag chain cycles                |   | min. 3000000  |
| Motion velocity                  |   | max. 2.5 m/s  |
| Acceleration                     |   | max. 12 m/s <sup>2</sup>                                      |
| Mass                             |   | 66.75 g   |
| <b>Material</b>                  |   |   |
| 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  |
| Salt water resistance            |   | yes   |
| Oil resistance                   |   | yes   |
| Microbial resistance             |   | yes   |
| Hydrolysis resistance            |   | yes   |
| Flammability                     |   | VW-1<br>complies with UN ECE-R 118.01                         |

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## Connection Assignment



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