# Cable connector, NAMUR

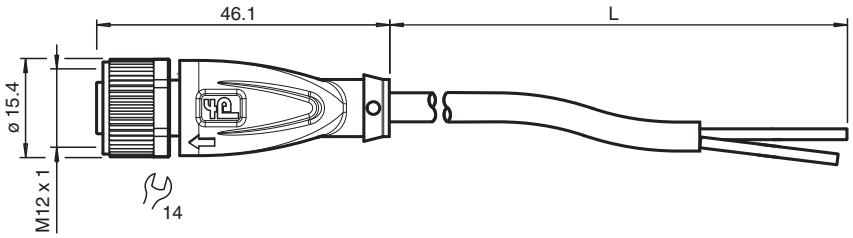
# V1-G-N-BU1M-PUR-N1



- Suitable for NAMUR technology
- Degree of protection IP66 / IP68 / IP69
- Ex ia certified
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M12 straight A-coded, 2-pin, PUR cable blue, Ex certified

## Dimensions




## Technical Data

| | | |
|---|---|---|
| **General specifications** | | |
| Connector 1 | | |
| Connection | | socket |
| Construction type | | M12 |
| Style | | straight |
| Locking | | screw connection |
| Number of pins | | 2 |
| Coding | | A-coded |
| Connector 2 | | |
| Connection | | cable end |
| **Electrical specifications** | | |
| Operating voltage | $U_B$ | max. 250 V AC/DC |
| Operating current | $I_B$ | max. 4 A |
| Resistance per unit length | R' | max. 0.057 Ω/m |
| Capacitance per unit length | C' | 102.4 nF/km |
| Inductance per unit length | L' | 0.49 mH/km |
| **Conformity** | | |
| Degree of protection | | EN 60529 |
| Plug connection | | connector M12 x 1 : IEC 61076-2-101 |
| Explosion protection | | IEC 60079-0 , IEC 60079-11 |
| Lead-free | | RoHS directive 2011/65/EU |
| **Ambient conditions** | | |
| Ambient temperature | | |
| Plug connector | | -40 ... 90 °C (-40 ... 194 °F) |

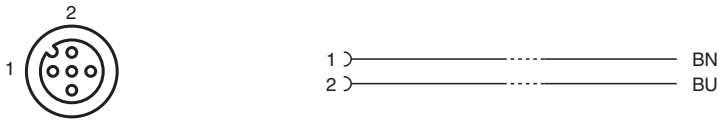
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## Technical Data

| | | |
|---|---|---|
| Cable, fixed installation | | -40 ... 80 °C (-40 ... 176 °F) |
| Cable, flexing | | -20 ... 80 °C (-4 ... 176 °F) |
| Pollution degree | | 3 |
| **Mechanical specifications** | | |
| Plug connector | | |
| Tightening torque | | 0.6 Nm |
| Loosening protection | | integrated |
| Tool installation | | straight knurling and hexagon nut SW = 14 mm |
| Mating cycles | | min. 100 |
| Degree of protection | | IP66 / IP68 / IP69 |
| Cable | | according to IEC/EN 60228 (DIN VDE 0295) class 6 |
| Sheath diameter | | 4.8 mm |
| Bending radius | | > 15 x cable diameter, movable installation<br>> 10 x cable diameter, fixed installation |
| Sheath color | | blue (similar to RAL 5015) |
| Number of cores | | 2 |
| Core cross section | | 0.34 $mm^2$ |
| Cores color | | Core 1: brown<br>Core 2: blue |
| Core construction | | 42 x 0.1 mm Ø |
| Length | L | 1 m |
| Cable code | | Li FY 11Y 2 x 0.34 |
| **Material** | | |
| Lead-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 | | PVC |
| Flammability | | HB |
| **Data for application in connection with hazardous areas** | | |
| EU-type examination certificate | | TÜV 24 ATEX 9153X |
| Marking | | ⟨Ex⟩ II 1G Ex ia IIC T6 Ga Ta = -25 °C ... +80 °C<br>⟨Ex⟩ II 1D Ex ia IIIC T200 85°C Da Ta = -25 °C ... +80 °C |
| Voltage | $U_i$ | max. 30 V |
| Current | $I_i$ | max. 1 A |
| Power | $P_i$ | for II and IIIB gas groups: 1 W<br>for IIIC gas group (depending on Tamb):<br>40°C / 750 mW, 70 °C / 650 mW, 90 °C / 550 mW |
| Ambient temperature | $T_{amb}$ | -25 ... 80 °C (-13 ... 176 °F) |
| **International approvals** | | |
| IECEx approval | | IECEx TUR 24.0043X |
| **General information** | | |
| Cable marking sleeve | | 1x PUR transparent , fixed to cable |

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## Connection Assignment




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