

# Cable connector, NAMUR

## V1-G-N-BU5M-PUR-N1

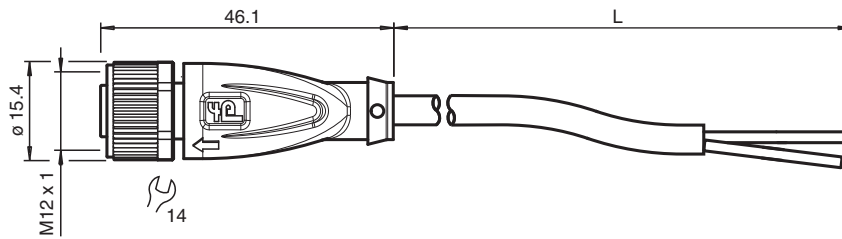


- Suitable for NAMUR technology
- Degree of protection IP66 / IP68 / IP69
- Ex ia certified
- Specific design protects against loosening and inaccurate installation

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 $\Omega/m$ |
| 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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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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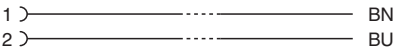
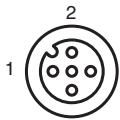
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## Technical Data

|                                                                |                  |                                                                                                                              |
|----------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------|
| Cable, fixed installation                                      |                  | -40 ... 80 °C (-40 ... 176 °F)                                                                                               |
| Cable, flexing                                                 |                  | -20 ... 80 °C (-4 ... 176 °F)                                                                                                |
| Pollution degree                                               |                  | 3                                                                                                                            |
| <b>Mechanical specifications</b>                               |                  |                                                                                                                              |
| 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 <sup>2</sup>                                                                                                         |
| Cores color                                                    |                  | Core 1: brown<br>Core 2: blue                                                                                                |
| Core construction                                              |                  | 42 x 0.1 mm Ø                                                                                                                |
| Length                                                         | L                | 5 m                                                                                                                          |
| Cable code                                                     |                  | Li FY 11Y 2 x 0.34                                                                                                           |
| <b>Material</b>                                                |                  |                                                                                                                              |
| 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                                                                                                                           |
| <b>Data for application in connection with hazardous areas</b> |                  |                                                                                                                              |
| EU-type examination certificate                                |                  | TÜV 24 ATEX 9153X                                                                                                            |
| Marking                                                        |                  | Ⓔ II 1G Ex ia IIC T6 Ga Ta = -25 °C ... +80 °C<br>Ⓔ II 1D Ex ia IIIC T200 85°C Da Ta = -25 °C ... +80 °C                     |
| Voltage                                                        | U <sub>i</sub>   | max. 30 V                                                                                                                    |
| Current                                                        | I <sub>i</sub>   | max. 1 A                                                                                                                     |
| Power                                                          | P <sub>i</sub>   | 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 <sub>amb</sub> | -25 ... 80 °C (-13 ... 176 °F)                                                                                               |
| <b>International approvals</b>                                 |                  |                                                                                                                              |
| IECEx approval                                                 |                  | IECEx TUR 24.0043X                                                                                                           |
| <b>General information</b>                                     |                  |                                                                                                                              |
| Cable marking sleeve                                           |                  | 1x PUR transparent , fixed to cable                                                                                          |

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Connection Assignment



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