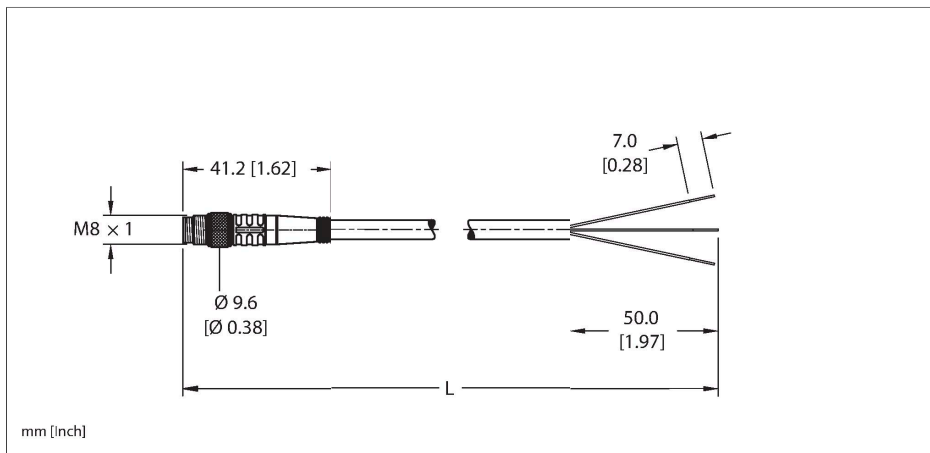
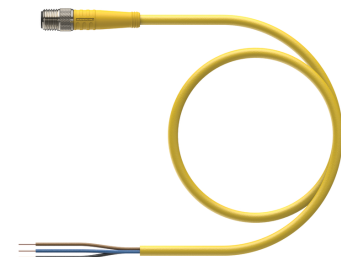


# PSG 3M-0.3

## Actuator and Sensor Cordset – Connection Cable



### Technical data

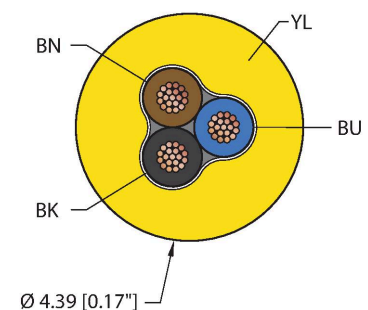
|                                 |                                                           |
|---------------------------------|-----------------------------------------------------------|
| Type                            | PSG 3M-0.3                                                |
| ID                              | U0871-19                                                  |
| Connector A                     | Male, M8 × 1, Straight                                    |
| Design specification            | Acc. to IEC 61076-2-104                                   |
| Number of contacts              | 3                                                         |
| Contacts                        | Brass, CuZn, Gold-plated                                  |
| Contact carriers                | Plastic, Nylon or TPU, Black                              |
| Connector body                  | Plastic, TPU, Yellow                                      |
| Coupling nut                    | Brass, CuZn, Nickel-plated                                |
| Tightening torque (range)       | 0.4 ... 0.8 Nm<br>(note max. torque of mating connector!) |
| Mechanical life                 | > 100 Mating cycles                                       |
| Pollution degree                | 3                                                         |
| Protection class (When coupled) | IP68                                                      |
|                                 | NEMA: 1, 3, 4, 6P                                         |
| <b>Cable data</b>               |                                                           |
| Cable ID                        | RF50642                                                   |
| Total number of conductors      | 3                                                         |
| Cable diameter                  | Ø 4.39 mm                                                 |
| Length (L)                      | 0.3 m, (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                    | PVC, Yellow                                               |
| Conductor diameter              | 0.044 "                                                   |
| Conductor material              | TC (tinned copper)                                        |
| Conductor insulation material   | PVC                                                       |

### Features



- M8, Male, Straight, 3-pin
- Threaded Connector
- General Purpose Cable
- Yellow PVC jacket, 3X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1

### Cable cross section



### Contact assignment

Technical data

|                                                                                                                                                                                      |                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Conductor size                                                                                                                                                                       | 3 x 24 AWG [Similar to 0.25 mm²]                     |
| Number of strands x O.D.                                                                                                                                                             | 19 x 36 AWG                                          |
| Conductor colors                                                                                                                                                                     | BN, BU, BK                                           |
| Electrical properties at +20 °C                                                                                                                                                      |                                                      |
| Rated voltage                                                                                                                                                                        | 125 VAC/DC                                           |
| Current                                                                                                                                                                              | 4 A                                                  |
| Mechanical and chemical properties                                                                                                                                                   |                                                      |
| Bending radius (static)                                                                                                                                                              | ≥ 5 x Ø                                              |
| Bending radius (dynamic)                                                                                                                                                             | ≥ 10 x Ø                                             |
| UL cold bend rating                                                                                                                                                                  | -40 °C                                               |
| Ambient temperature range (static)                                                                                                                                                   | -40 °C...+105 °C                                     |
| Ambient temperature range (dynamic)                                                                                                                                                  | 5 °C...+105 °C                                       |
| Temperature range (installation)                                                                                                                                                     | -10 °C...+105 °C                                     |
| Approval                                                                                                                                                                             |                                                      |
| Approvals                                                                                                                                                                            | UL 2238<br>CSA C22.2 No. 182.3<br>CE<br>UKCA<br>RoHS |
| Note                                                                                                                                                                                 |                                                      |
| - Flex ratings may be reduced if used in extreme temperatures, exposure to certain chemicals, operating above the rated cycle speed, or operating below the rated cable bend radius. |                                                      |
| - We reserve the right to make technical alterations without prior notice.                                                                                                           |                                                      |

Connector A



Circuit Diagram

