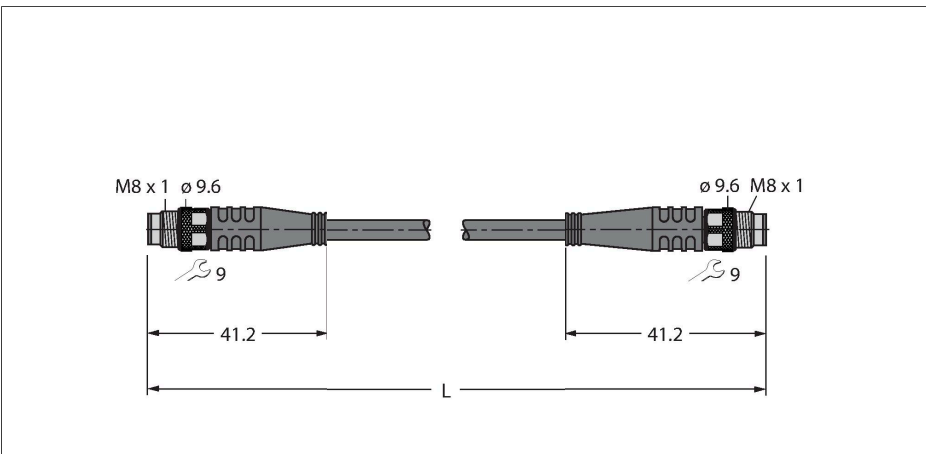


# PSG3M-0.9-PSG3M/TEL

## Actuator and Sensor Cable, PVC – Extension Cable



### Features

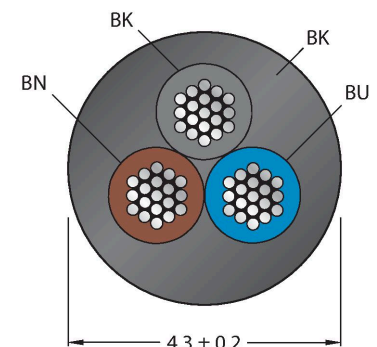


- Male M8, straight, 3-pin
- Male M8, straight, 3-pin
- Jacket material: PVC
- Jacket color: black
- Resistant to chemicals and oils
- Flame retardant
- Resistant to acids and alkaline solutions
- Resistant to microbes and hydrolysis
- LABS free
- CE, UKCA and RoHS compliant
- Protection class: IP67, IP69K
- Cable length: 0.9 m

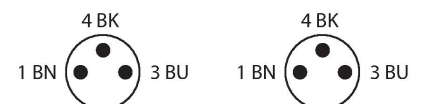
### Technical data

|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Type                         | PSG3M-0.9-PSG3M/TEL                                          |
| ID                           | 6628500                                                      |
| Connector A                  | Male, M8 × 1, Straight                                       |
| Number of Pins               | 3                                                            |
| Contacts                     | Brass, CuZn, Gold-plated                                     |
| Contact carriers             | Plastic, TPU, Black                                          |
| Connector body               | Plastic, TPU, Black                                          |
| Coupling nut/screw           | Brass, CuZn, Nickel-plated                                   |
| Tightening torque (range)    | 0.5 ... 0.6 Nm<br>(observe max. torque of mating connector!) |
| Mechanical lifespan          | > 100 Mating cycles                                          |
| Pollution degree             | 3                                                            |
| Protection class             | IP67, IP69K, Only in screwed condition                       |
| Connector B                  | Male, M8 × 1, Straight                                       |
| Number of pins               | 3                                                            |
| Contacts                     | Brass, CuZn, Gold-plated                                     |
| Contact carriers             | Plastic, TPU, Black                                          |
| Connector body               | Plastic, TPU, Black                                          |
| Coupling nut/retaining screw | Brass, CuZn, Nickel-plated                                   |
| Tightening torque            | 0.5 ... 0.6 Nm<br>(observe max. torque of mating connector!) |
| Mechanical life              | > 100 Mating cycles                                          |
| Pollution degree             | 3                                                            |
| Protection class             | IP67, IP69K, Only when screwed together                      |
| Cable                        |                                                              |
| Cable diameter               | Ø 4.3 mm ±0.20                                               |

### Cable Cross-Section



### Contact assignment



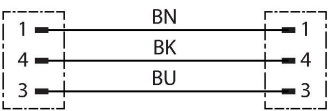
### Functional principle

Drawing shows design status including hexagon coupling nut (Production start CW11/2016).

Technical data

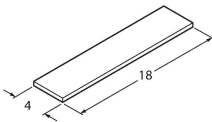
|                                          |                          |
|------------------------------------------|--------------------------|
| Cable length                             | 0.9 m                    |
| Cable jacket                             | PVC, Black               |
| Core insulation                          | PVC                      |
| Core cross-section                       | 3 x 0.34 mm <sup>2</sup> |
| Arrangement of strands                   | 42 x 0.1 mm              |
| Core colors                              | BN, BU, BK               |
| Electrical properties at +20 °C          |                          |
| Rated voltage                            | 30 V                     |
| Test voltage                             | 2000 V                   |
| Current                                  | 4 A                      |
| Insulation resistance                    | > 30.5 MΩ/km             |
| forward resistance                       | max. 57 Ω/km             |
| Mechanical and chemical properties       |                          |
| Bending radius (stationary installation) | ≥ 5 x Ø                  |
| Bending radius (flexible use)            | ≥ 10 x Ø                 |
| Ambient temperature range (stationary)   | -40...+105 °C            |
| Ambient temperature range (In motion)    | -5...+80 °C              |
| Approvals                                | CE                       |

Circuit Diagram



Accessories

|                                                                                                                       |         |                                                                                                                                         |         |
|-----------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|---------|
| TORQUE-WRENCH-SET-AS                                                                                                  | 6936170 | BLANK-LABEL-FOR-CORDSETS-TEL-TXL                                                                                                        | 6936206 |
| Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14) |         | Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant |         |



Accessories

| Dimension drawing | Type                  | ID        |                                                                                                                                                                            |
|-------------------|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | LABEL-HOLDER-FLEX-PVC | 100048170 | PVC label holder for identification of extension cables (TEL/TXL product series); for cable diameters: min. 5 mm; dimensions 4 x 18 mm; delivery unit: 50 pcs. per package |