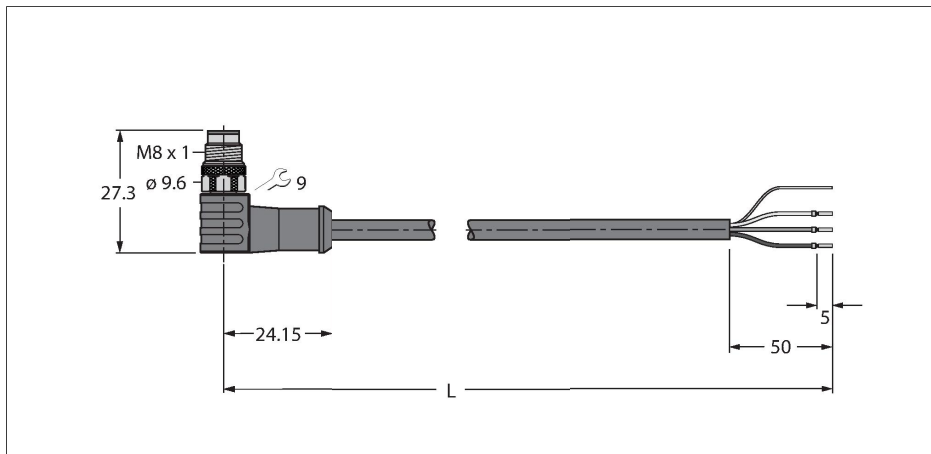


# PSWS3M-10/TXL

## Actuator and Sensor Cable, PUR – Connection Cable

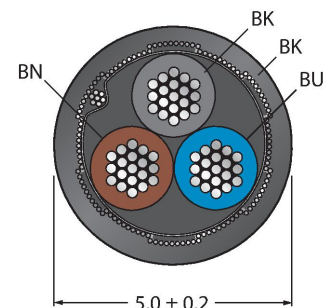


### Features



- Male M8, angled, 3-pin
- Shield on coupling nut/screw
- Jacket material: PUR, shielded
- Jacket color: black
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Resistant to welding sparks
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 10 m

### Cable Cross-Section



### Contact assignment



### Functional principle

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

### Technical data

|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| Type                            | PSWS3M-10/TXL                                                |
| ID                              | 6627468                                                      |
| Connector A                     | Male, M8 × 1, Angled                                         |
| 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                       |
| Cable                           |                                                              |
| Cable diameter                  | Ø 5 mm ±0.20                                                 |
| Cable length                    | 10 m                                                         |
| Cable jacket                    | PUR, Black                                                   |
| Shielding                       | Aluminum foil, tinned copper wire                            |
| Core insulation                 | PP                                                           |
| Core cross-section              | 3 x 0.34 mm²                                                 |
| Arrangement of strands          | 42 x 0.1 mm                                                  |
| Core colors                     | BN, BU, BK                                                   |
| Electrical properties at +20 °C |                                                              |
| Rated voltage                   | 50 V <sub>AC</sub> /60 V <sub>DC</sub>                       |
| Test voltage                    | 2000 V                                                       |
| Current                         | 4 A                                                          |
| Insulation resistance           | > 30.5 MΩ/km                                                 |

Technical data

|                                          |                 |
|------------------------------------------|-----------------|
| forward resistance                       | max. 57 Ω/km    |
| Mechanical and chemical properties       |                 |
| Bending radius (stationary installation) | ≥ 5 x Ø         |
| Bending radius (flexible use)            | ≥ 10 x Ø        |
| Bending cycles                           | ≥ 5 million     |
| Admissible acceleration                  | max. 5 m/s²     |
| Admissible travel path, horizontal       | 5 m (at 5 m/s²) |
| Admissible travel path, vertical         | 2 m (at 5 m/s²) |
| Admissible traversing speed              | 3.3 m/s         |
| Torsional stress                         | ± 180 °/m       |
| Ambient temperature (fixed)              | -50...+80 °C    |
| Ambient temperature (mobile)             | -25...+80 °C    |
| Ambient temperature (drag chain)         | -25...+60 °C    |
| Approvals                                | cULus           |

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 × 18 mm; delivery unit: 50 pcs. per package |