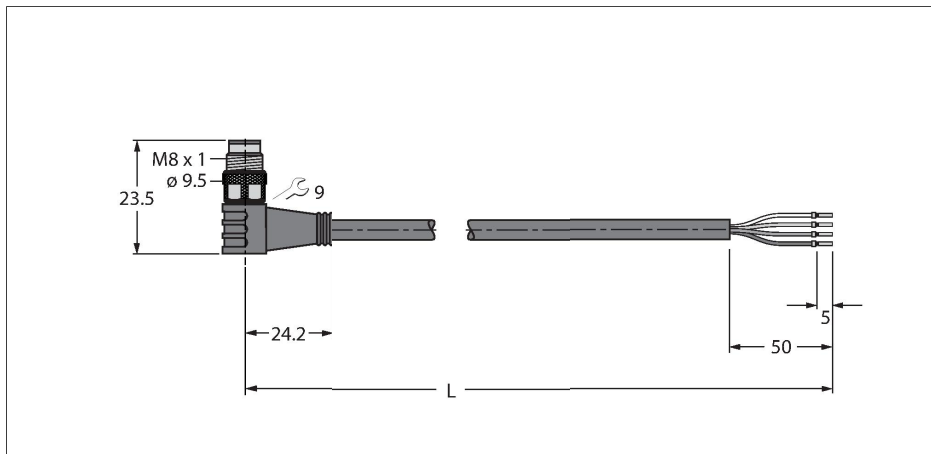


# PSW4M-5/TXG

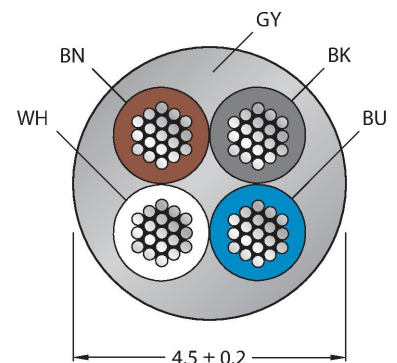
## Actuator and Sensor Cable, PUR – Connection Cable



### Features

- Male M8, angled, 4-pin
- Jacket material: PUR
- Jacket color: gray
- 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: 5.0 m

### Cable Cross-Section



### Contact assignment



### Functional principle

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

### Technical data

|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| Type                            | PSW4M-5/TXG                                                  |
| ID                              | 6630051                                                      |
| Connector A                     | Male, M8 × 1, Angled                                         |
| Number of Pins                  | 4                                                            |
| 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 4.5 mm ±0.20                                               |
| Cable length                    | 5 m                                                          |
| Cable jacket                    | PUR, Gray                                                    |
| Core insulation                 | PP                                                           |
| Core cross-section              | 4 x 0.34 mm <sup>2</sup>                                     |
| Arrangement of strands          | 42 x 0.1 mm                                                  |
| Core colors                     | BN, WH, 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                                                 |
| forward resistance              | max. 57 Ω/km                                                 |

## Technical data

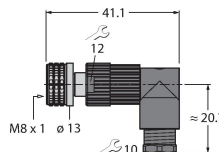
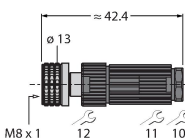
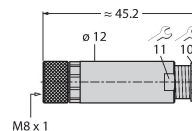
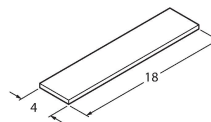
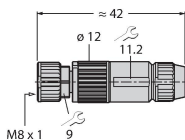
| Mechanical and chemical properties              |                              |
|-------------------------------------------------|------------------------------|
| Bending radius (stationary installation)        | $\geq 5 \times \varnothing$  |
| Bending radius (flexible use)                   | $\geq 10 \times \varnothing$ |
| Bending cycles                                  | $\geq 5$ million             |
| Admissible acceleration                         | max. 5 m/s <sup>2</sup>      |
| Admissible travel path, horizontal              | 5 m (at 5 m/s <sup>2</sup> ) |
| Admissible travel path, vertical                | 2 m (at 5 m/s <sup>2</sup> ) |
| Admissible traversing speed                     | 3.3 m/s                      |
| Torsional stress                                | $\pm 180$ °/m                |
| Ambient temperature range (stationary)          | -50...+80 °C                 |
| Ambient temperature range (In motion)           | -25...+80 °C                 |
| Ambient temperature during drag chain operation | -25...+60 °C                 |
| Approvals                                       | cULus                        |

## Circuit Diagram



## Accessories

|                                  |         |                                                                                                                                                                                                                           |
|----------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TORQUE-WRENCH-SET-AS             | 6936170 | Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14)                                                                                                     |
| BLANK-LABEL-FOR-CORDSETS-TEL-TXL | 6936206 | Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant                                                                                   |
| HA5141-0                         | 6905405 | Field-wireable female connector, M8 × 1, straight, 4-pin, insulation piercing connection, cable feedthrough 2.5 to 5.1 mm, core cross-section/terminal capacity 0.14 to 0.34 mm <sup>2</sup> , plastic housing, metal nut |
| B5143-0                          | 6901031 | Konfektionierbare Kupplung, M8 x 1, gerade, 4-polig, Schraubklemmanschluss, Leitungsdurchlass 3.5 bis 5.0 mm, Adernquerschnitt/ Klemmvermögen 0.14 bis 0.50 mm <sup>2</sup> , Kunststoffgehäuse, Metallüberwurfmutter     |
| H5141-0                          | 6902720 | Field-wireable female connector, M8 × 1, straight, 4-pin, pressfit technology, cable feedthrough 4.0 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.34 mm <sup>2</sup> , plastic housing, metal nut            |
| H5241-0                          | 6902820 | Field-wireable female connector, M8 × 1, angled, 4-pin, pressfit technology, cable feedthrough 4.0 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.34 mm <sup>2</sup> , plastic housing, metal nut              |



FW-PRKPM0420-SA-S-0406

100002293



Field-wireable female connector, M8 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 4.0 to 5.5 mm, core cross-section/terminal capacity 0.14 to 0.5 mm², plastic housing, metal coupling nut

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 |