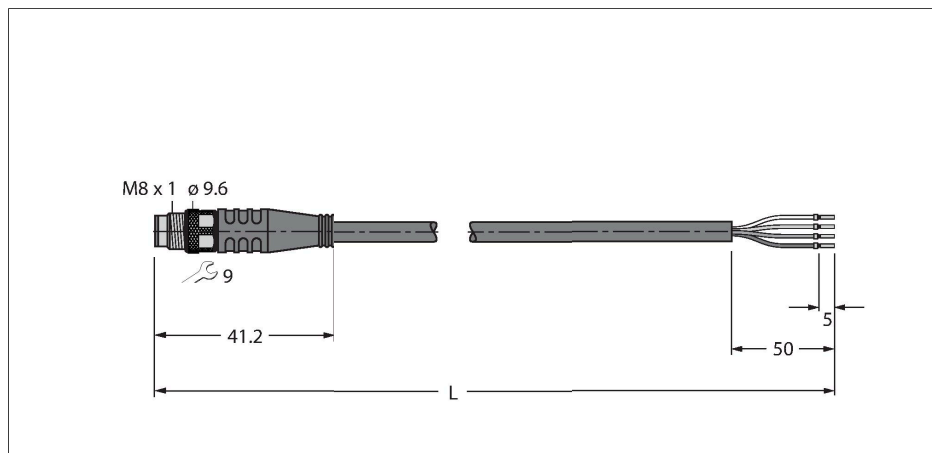


# PSG4M-10/TXY

## Actuator and Sensor Cable, PUR – Connection Cable



### Features

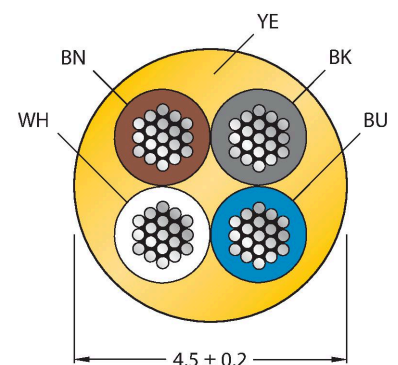


- Male M8, straight, 4-pin
- Jacket material: PUR
- Jacket color: yellow
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Resistant to welding sparks
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 10 m

### Technical data

|                                        |                                                              |
|----------------------------------------|--------------------------------------------------------------|
| Type                                   | PSG4M-10/TXY                                                 |
| ID                                     | 6630091                                                      |
| Connector A                            | Male, M8 × 1, Straight                                       |
| 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                       |
| <b>Cable</b>                           |                                                              |
| Cable diameter                         | Ø 4.5 mm ±0.20                                               |
| Cable length                           | 10 m                                                         |
| Cable jacket                           | PUR, Yellow                                                  |
| 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                                               |
| <b>Electrical properties at +20 °C</b> |                                                              |
| 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                                                 |

### Cable Cross-Section



### Contact assignment



### Functional principle

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

## 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                        |

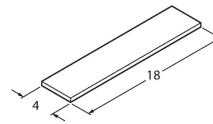
## Circuit Diagram



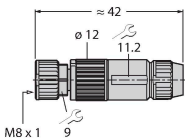
## Accessories

| 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) |         |

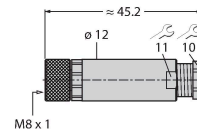
| BLANK-LABEL-FOR-CORDSETS-TEL-TXL                                                                                                        | 6936206 |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------|
| Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant |         |



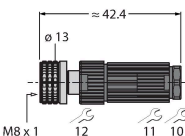
| HA5141-0                                                                                                                                                                                                                  | 6905405 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 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 |         |



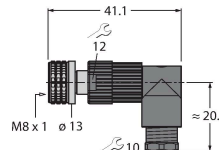
| B5143-0                                                                                                                                                                                                               | 6901031 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Konfektionierbare Kupplung, M8 × 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

10002293

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 mm<sup>2</sup>, 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 |