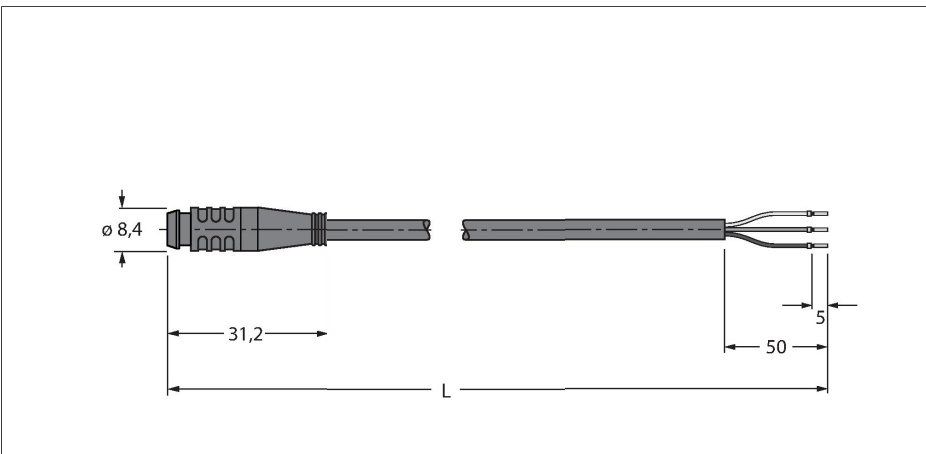


# PSG3S-3/TXL

## Actuator and Sensor Cable, PUR – Connection Cable



### Features

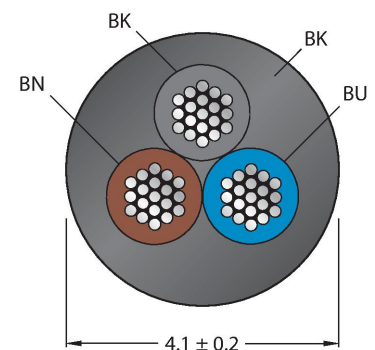


- Male Ø 8 mm, straight, 3-pin, snap-on type
- Sheath material: PUR
- Sheath color: black
- Qualified for drag chain use
- Resistant to weld splatter
- Resistant to chemicals, UV radiation and oils
- Flame retardant
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- RoHS conform
- Protection class IP67
- Cable length: 3 m

### Technical data

|                                        |                                                              |
|----------------------------------------|--------------------------------------------------------------|
| Type                                   | PSG3S-3/TXL                                                  |
| ID                                     | 6626410                                                      |
| Connector A                            | Male, Ø 8 mm, Straight                                       |
| Number of pins                         | 3                                                            |
| Contacts                               | Brass, CuZn, Gold-plated                                     |
| Contact carriers                       | Plastic, TPU, Black                                          |
| Connector body                         | Plastic, TPU, Black                                          |
| 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, (plugged)                                              |
| <b>Cable</b>                           |                                                              |
| Cable diameter                         | Ø 4.1 mm ±0.20                                               |
| Cable length                           | 3 m                                                          |
| Cable jacket                           | PUR, Black                                                   |
| Core insulation                        | PP                                                           |
| Core cross-section                     | 3 x 0.34 mm <sup>2</sup>                                     |
| Arrangement of strands                 | 42 x 0.1 mm                                                  |
| Core colors                            | BN, 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                                                 |

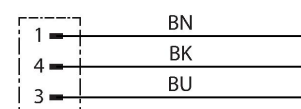
### Cable Cross-Section



### Contact assignment



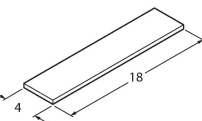
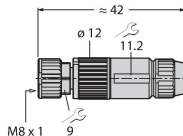
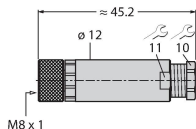
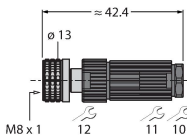
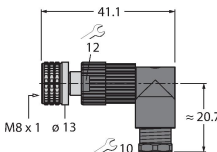
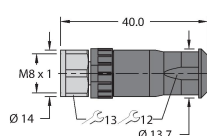
### Circuit Diagram



Technical data

| 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           |

Accessories

|                                                                                     |         |                                                                                                                                                                                                         |                                                                                     |                                                                                      |           |                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                 |                                                                                     | HA5131-0                                                                             | 6905404   | Field-wireable female connector, M8 × 1, straight, 3-pin, insulation piercing connection, cable feedthrough 2.5 to 5.1 mm, core cross-section/terminal capacity 0.14 to 0.34 mm², plastic housing, metal nut    |
|  |         |                                                                                                                                                                                                         |                                                                                     |  |           |                                                                                                                                                                                                                 |
| B5133-0                                                                             | 6901030 | Field-wireable female connector, M8 × 1, straight, 3-pin, screw terminal connection, cable feedthrough 3.5 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.50 mm², plastic housing, metal nut |  | H5131-0                                                                              | 6902700   | Field-wireable female connector, M8 × 1, straight, 3-pin, pressfit technology, cable feedthrough 4.0 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.34 mm², plastic housing, metal nut               |
|                                                                                     |         |                                                                                                                                                                                                         |                                                                                     |  |           |                                                                                                                                                                                                                 |
| H5231-0                                                                             | 6902800 | Field-wireable female connector, M8 × 1, angled, 3-pin, pressfit technology, cable feedthrough 4.0 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.34 mm², plastic housing, metal nut         |  | FW-PRKPM0320-SA-S-0406                                                               | 100002292 | Field-wireable female connector, M8 × 1, straight, 3-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 |