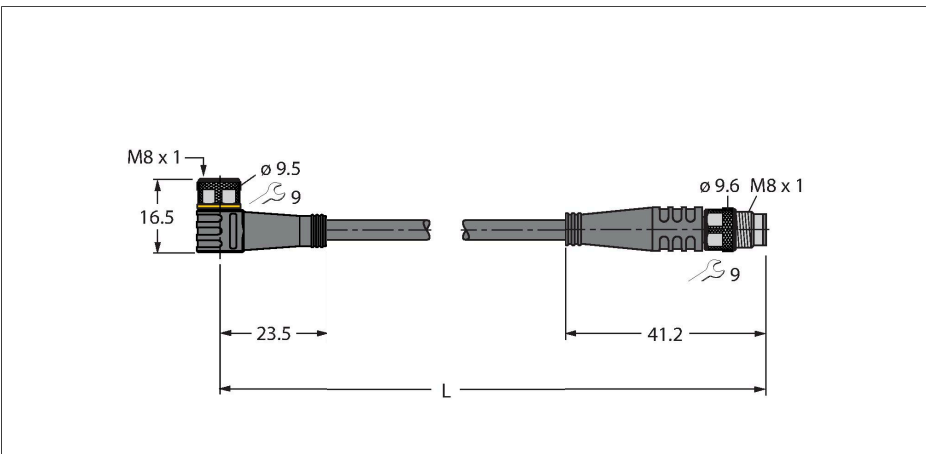


# PKW3M-2-PSG3M/TXY

## Actuator and Sensor Cable, PUR – Extension Cable



### Features

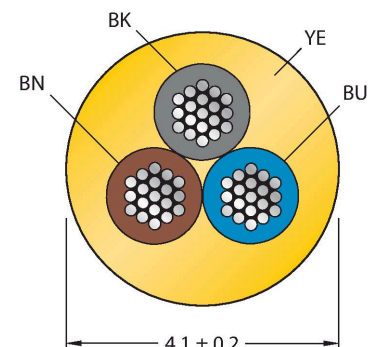


- Female M8, angled, 3-pin
- Male M8, straight, 3-pin
- Jacket material: PUR
- Jacket color: yellow
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Resistant to welding sparks
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 2.0 m

### Technical data

|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Type                         | PKW3M-2-PSG3M/TXY                                            |
| ID                           | 6630081                                                      |
| Connector A                  | Female, 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                                   |
| Seal                         | Plastic, FPM/FKM                                             |
| 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                      |

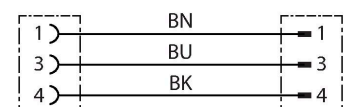
### Cable Cross-Section



### Contact assignment



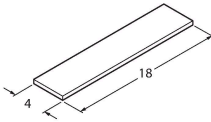
### Circuit Diagram



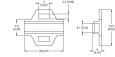
Technical data

| Cable                                    |                                        |
|------------------------------------------|----------------------------------------|
| Cable diameter                           | Ø 4.1 mm ±0.20                         |
| Cable length                             | 2 m                                    |
| Cable jacket                             | PUR, Yellow                            |
| 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                           |
| 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                                  |

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 |