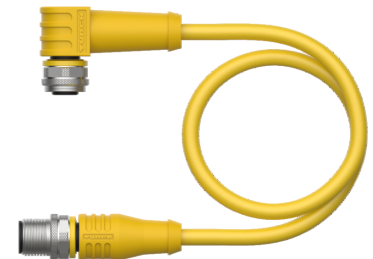
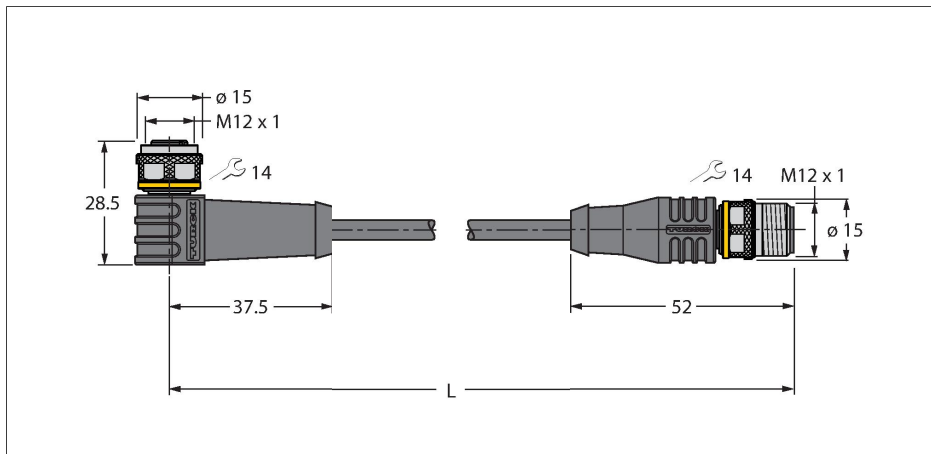


# WKS4.5T-2-RSS4.5T/TXY3013

## Actuator and Sensor Cable, PUR – Extension Cable



### Technical data

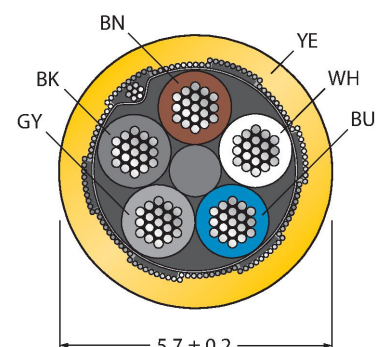
|                              |                                         |
|------------------------------|-----------------------------------------|
| Type                         | WKS4.5T-2-RSS4.5T/TXY3013               |
| ID                           | 6631091                                 |
| Connector A                  | Female, M12 × 1, Angled, A-coded        |
| Number of Pins               | 5                                       |
| Contacts                     | Brass, CuZn, Gold-plated                |
| Contact carriers             | Plastic, TPU, Black                     |
| Connector body               | Plastic, TPU, Yellow                    |
| Coupling nut/screw           | Brass, CuZn, Nickel-plated              |
| Seal                         | Plastic, FPM/FKM                        |
| Mechanical lifespan          | > 100 Mating cycles                     |
| Pollution degree             | 3                                       |
| Protection class             | IP67, IP69K, Only in screwed condition  |
| Connector B                  | Male, M12 × 1, Straight, A-coded        |
| Number of pins               | 5                                       |
| Contacts                     | Brass, CuZn, Gold-plated                |
| Contact carriers             | Plastic, TPU, Black                     |
| Connector body               | Plastic, TPU, Yellow                    |
| Coupling nut/retaining screw | Brass, CuZn, Nickel-plated              |
| Mechanical life              | > 100 Mating cycles                     |
| Pollution degree             | 3                                       |
| Protection class             | IP67, IP69K, Only when screwed together |
| Cable                        |                                         |
| Cable diameter               | Ø 5.7 mm ±0.20                          |
| Cable length                 | 2 m                                     |
| Cable jacket                 | PUR, Yellow                             |
| Shielding                    | Aluminum foil, tinned copper wire       |
| Core insulation              | PP                                      |

### Features



- Female M12, angled, 5-pin
- Shield on coupling nut/screw
- Male M12, straight, 5-pin
- Jacket material: PUR
- Jacket color: yellow
- Grip 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)
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 2.0 m

### Cable Cross-Section



### Contact assignment

Technical data

|                                                 |                    |
|-------------------------------------------------|--------------------|
| Core cross-section                              | 5 x 0.34 mm²       |
| Arrangement of strands                          | 42 x 0.1 mm        |
| Core colors                                     | BN, WH, BU, BK, GY |
| Electrical properties at +20 °C                 |                    |
| Rated voltage                                   | 60 V               |
| 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 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 |         |



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