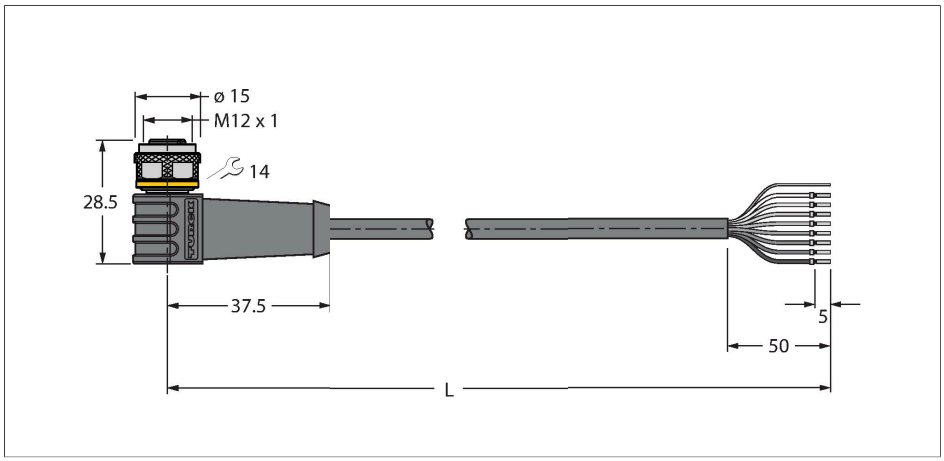
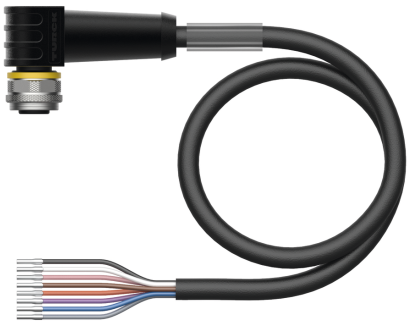
# WKS8T-2/TXL
## Actuator and Sensor Cable, PUR – Connection Cable



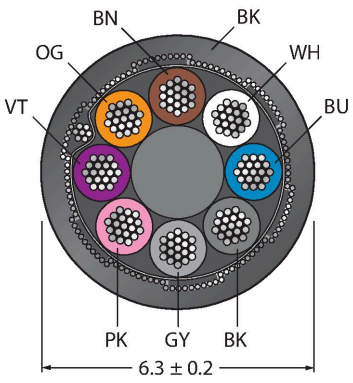
## Technical data

| | |
|---|---|
| Type | WKS8T-2/TXL |
| ID | 6625461 |
| **Connector A** | Female, M12 × 1, Angled, A-coded |
| Number of pins | 8 |
| 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 |
| Mechanical lifespan | > 100 Mating cycles |
| Pollution degree | 3 |
| Protection class | IP67, IP69K, Only in screwed condition |
| **Cable** | |
| Cable diameter | Ø 6.3 mm ±0.20 |
| Cable length | 2 m |
| Cable jacket | PUR, Black |
| Shielding | Aluminum foil, tinned copper wire |
| Core insulation | PP |
| Core cross-section | 8 x 0.25 mm² |
| Arrangement of strands | 32 x 0.1 mm |
| Core colors | BN, WH, BU, BK, GY, PK, VT, OG |
| **Electrical properties at +20 °C** | |
| Rated voltage | 30 V |
| Test voltage | 2000 V |
| Current | 2 A |
| Insulation resistance | > 30.5 MΩ/km |
| forward resistance | max. 79 Ω/km |

## Features

- Female M12, angled, 8-pin
- Shield on coupling nut/screw
- Jacket material: PUR, shielded
- Jacket color: black
- 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

## Cable Cross-Section

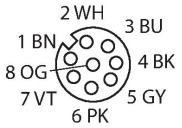



## Contact assignment

WKS8T-2/TXL | 23-02-2025 11-33 | Technical modifications reserved

## Technical data

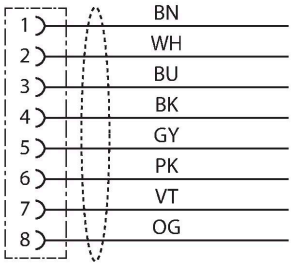
| Mechanical and chemical properties | |
|---|---|
| Bending radius (stationary installation) | ≥ 5 x Ø |
| Bending radius (flexible use) | ≥ 10 x Ø |
| Bending cycles | ≥ 5 million |
| Admissible acceleration | max. 5 m/s² |
| Admissible travel path, horizontal | 5 m (at 5 m/s²) |
| Admissible travel 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 |




## Functional principle

Drawing shows design status including hexagon coupling nut
(Production start CW11/2016).
Wiring diagram shows contact assignment acc. to DIN EN 60947-5-2
(Production start CW16/2017).

## Circuit Diagram

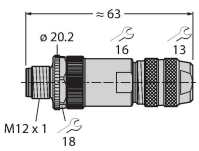



Stranded Wire Colors

| Pin | DIN 47100 (old) | DIN EN 60947-5-2 (new) |
|---|---|---|
| 1 | WH | BN |
| 2 | BN | WH |
| 3 | GN | BU |
| 4 | YE | BK |
| 5 | GY | GY |
| 6 | PK | PK |
| 7 | BU | VT |
| 8 | RD | OG |

## Accessories

| CMBS8181-0 | 6930792 |
|---|---|



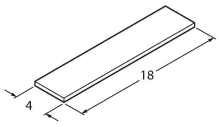

Field-wireable male connector, M12 × 1, straight, 8-pin, screw terminal connection, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.50 mm², metal housing, metal nut, shieldable, also for Ethernet

| 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)

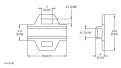
WKS8T-2/TXL | 23-02-2025 11-33 | Technical modifications reserved

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

WKS8T-2/TXL | 23-02-2025 11-33 | Technical modifications reserved