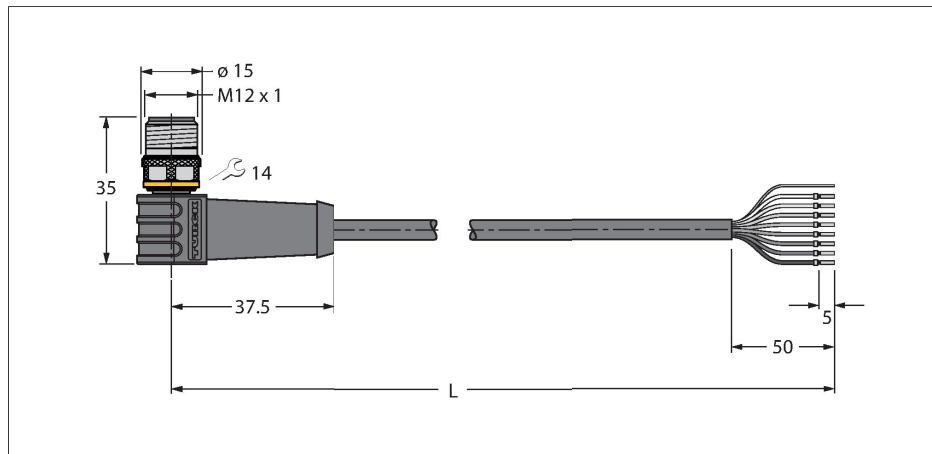


# WSS8T-3/TXL

## Actuator and Sensor Cable, PUR – Connection Cable

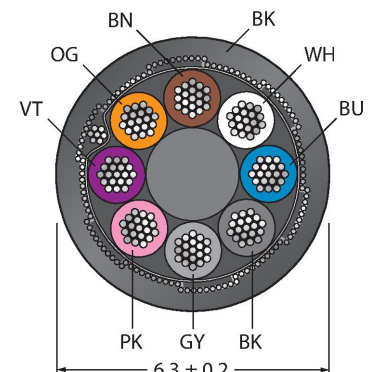


### Features

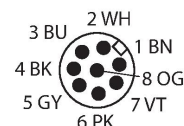


- Male M12, angled, 8-pin
- Shield on coupling nut/screw
- Jacket material: PUR, shielded
- Jacket color: black
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Resistant to welding sparks
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 3 m

### Cable Cross-Section



### Contact assignment



### 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).

### Technical data

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Type                            | WSS8T-3/TXL                            |
| ID                              | 6630846                                |
| Connector A                     | Male, 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             |
| 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                    | 3 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                           |

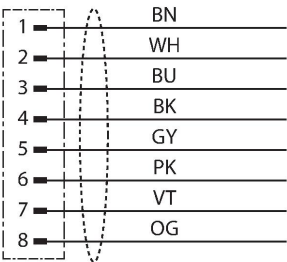
Technical data

| 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           |

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                     |

Circuit Diagram



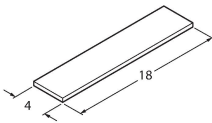
Accessories

TORQUE-WRENCH-SET-AS6936170

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-TXL6936206

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



CMB8181-06931450

Field-wireable female 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

CMB8281-06932024

Field-wireable female connector, M12 × 1, angled, 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

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 |