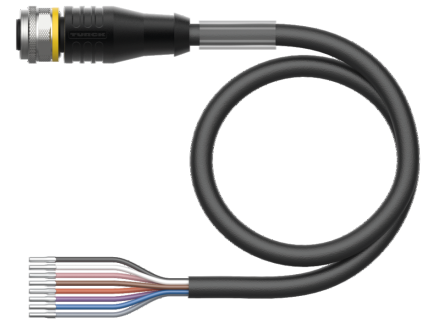


# RKS8T-30/TXL

## Actuator and Sensor Cable, PUR – Connection Cable



### Technical data

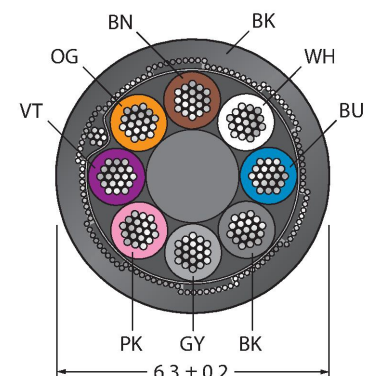
|                                 |                                        |
|---------------------------------|----------------------------------------|
| Type                            | RKS8T-30/TXL                           |
| ID                              | 6630344                                |
| Connector A                     | Female, M12 × 1, Straight, 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                    | 30 m                                   |
| Cable jacket                    | PUR, Black                             |
| Shielding                       | Aluminum foil, tinned copper wire      |
| Core insulation                 | PP                                     |
| Core cross-section              | 8 x 0.25 mm <sup>2</sup>               |
| 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, straight, 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: 30 m

### Cable Cross-Section



### Contact assignment

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 range (stationary)          | -50...+80 °C    |
| Ambient temperature range (In motion)           | -25...+80 °C    |
| Ambient temperature during drag chain operation | -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

|                                                                                                                       |         |
|-----------------------------------------------------------------------------------------------------------------------|---------|
| 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 |         |



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

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 |