

# RKS4.5T-25-RSS4.5T/TXL

## Actuator and Sensor Cable, PUR – Extension Cable



### Technical data

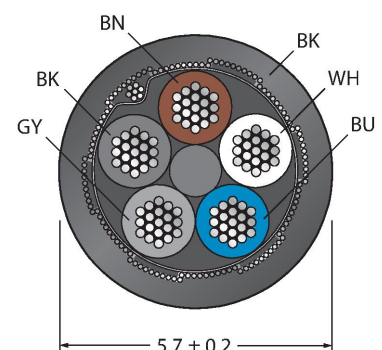
|                              |                                         |
|------------------------------|-----------------------------------------|
| Type                         | RKS4.5T-25-RSS4.5T/TXL                  |
| ID                           | 6633496                                 |
| Connector A                  | Female, M12 × 1, Straight, A-coded      |
| Number of pins               | 5                                       |
| 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  |
| 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, Black                     |
| 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                 | 25 m                                    |
| Cable jacket                 | PUR, Black                              |
| Shielding                    | Aluminum foil, tinned copper wire       |
| Core insulation              | PP                                      |

### Features



- Female M12, straight, 5-pin
- Shield on coupling nut/screw
- Male M12, straight, 5-pin
- 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: 25 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 (fixed)              | -50...+80 °C       |
| Ambient temperature (mobile)             | -25...+80 °C       |
| Ambient temperature (drag chain)         | -25...+60 °C       |
| Approvals                                | cULus              |



Circuit Diagram



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