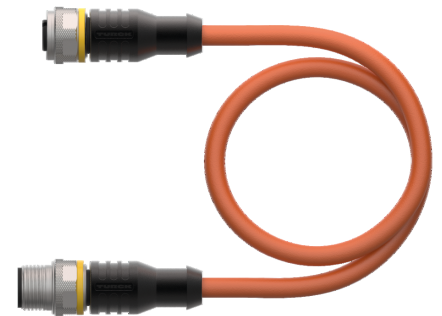
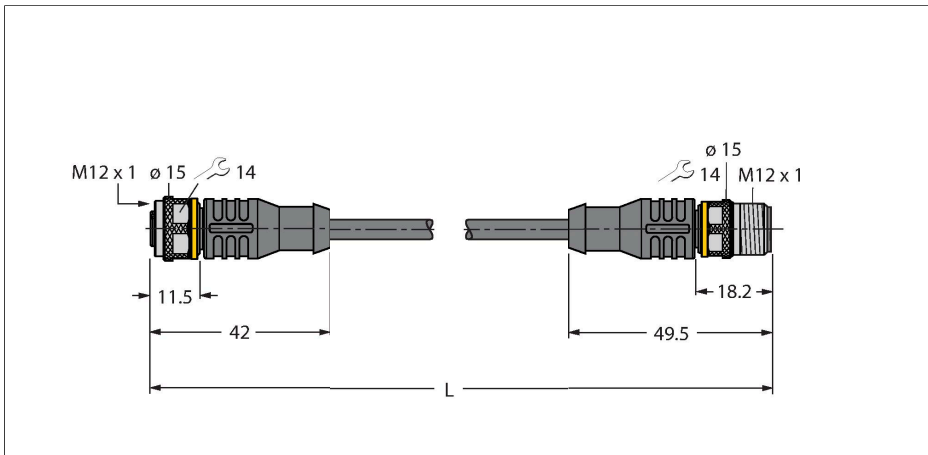


# RKC4.5T-1-RSC4.5T/TXO3701

## Welding Spark Resistant Actuator and Sensor Cable – Extension Cable



### Technical data

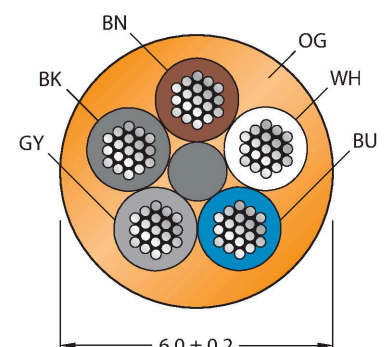
|                              |                                                                       |
|------------------------------|-----------------------------------------------------------------------|
| Type                         | RKC4.5T-1-RSC4.5T/TXO3701                                             |
| ID                           | 6635701                                                               |
| Remark to product            | Specification according to VASS requirements (version: February 2021) |
| 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 6 mm ±0.20                                                          |
| Cable length                 | 1 m                                                                   |

### Features



- Female M12, straight, 5-pin
- Male M12, straight, 5-pin
- Jacket material: PUR
- Jacket color: orange
- Resistant to welding sparks
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL/CSA; IEC 60332-1-2; IEC 60332-2-2)
- Halogen free (acc. to EN 50267-2-1)
- Free from silicone, PVC and LABS (acc. to PV3.10.7)
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 1.0 m

### Cable Cross-Section



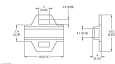
Technical data

|                                          |                    |
|------------------------------------------|--------------------|
| Cable jacket                             | PUR, Orange        |
| Core insulation                          | PP                 |
| Core cross-section                       | 5 x 0.34 mm²       |
| Core colors                              | BN, WH, BU, BK, GY |
| Electrical properties at +20 °C          |                    |
| Rated voltage                            | 60 V               |
| Test voltage                             | 2000 V             |
| Current                                  | 4 A                |
| forward resistance                       | max. 60 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. 10 m/s²       |
| Admissible travel path, horizontal       | 10 m (at 10 m/s²)  |
| Admissible travel path, vertical         | 10 m (at 10 m/s²)  |
| Admissible traversing speed              | 3.3 m/s            |
| Torsional stress                         | ± 180 °/m          |
| Ambient temperature (fixed)              | -40...+80 °C       |
| Ambient temperature (mobile)             | -25...+80 °C       |
| Ambient temperature (drag chain)         | -25...+60 °C       |
| Approvals                                | cULus              |

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) |         |

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 |

Contact assignment



Circuit Diagram

