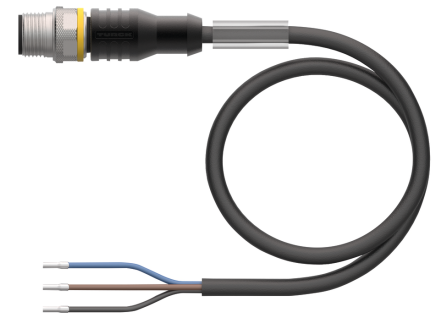
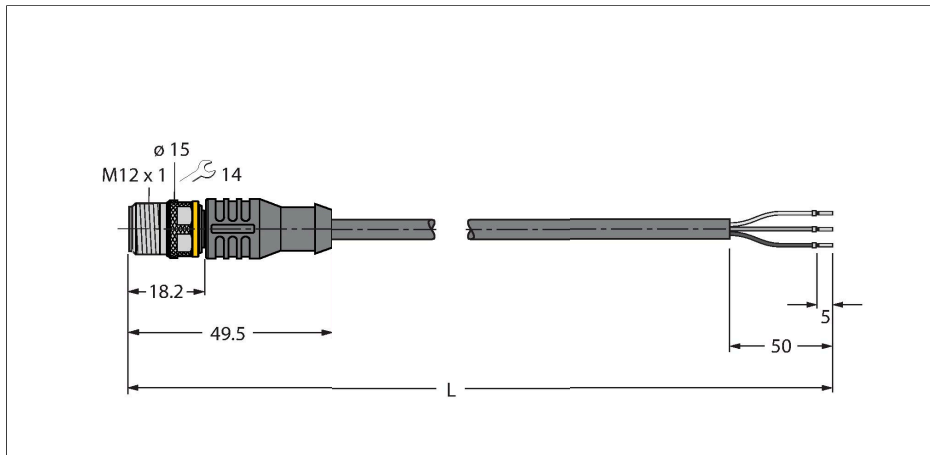


# RSC4T-5/TRL

## Actuator and Sensor Cable Suitable for Use with Robots – Connection Cable



### Technical data

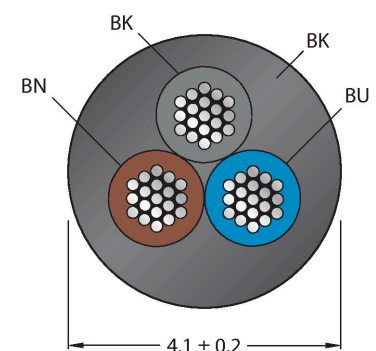
|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Type                                      | RSC4T-5/TRL                            |
| ID                                        | 6543007                                |
| Connector A                               | Male, M12 × 1, Straight, A-coded       |
| Number of pins                            | 3                                      |
| 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 |
| <b>Cable</b>                              |                                        |
| Cable diameter                            | Ø 4.1 mm ±0.20                         |
| Cable length                              | 5 m                                    |
| Cable jacket                              | PUR, Black                             |
| Core insulation                           | PP                                     |
| Core cross-section                        | 3 x 0.34 mm <sup>2</sup>               |
| Arrangement of strands                    | 42 x 0.1 mm                            |
| Core colors                               | BN, BU, BK                             |
| <b>Electrical properties at +20 °C</b>    |                                        |
| Rated voltage                             | 250 V                                  |
| Test voltage                              | 2000 V                                 |
| Current                                   | 4 A                                    |
| <b>Mechanical and chemical properties</b> |                                        |
| Bending radius (stationary installation)  | ≥ 5 x Ø                                |
| Bending radius (flexible use)             | ≥ 10 x Ø                               |

### Features



- Male M12, straight, 3-pin
- Jacket material: PUR
- Jacket color: black
- Suitable for drag chain use
- Torsion resistant (± 360°/m)
- Resistant to chemicals, UV radiation and oils
- Free from halogen, silicone, PVC and LABS
- Flame retardant
- Resistant to hydrolysis and microbes
- Protection class: IP67, IP69K
- Cable length: 5.0 m

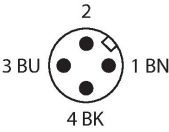
### Cable Cross-Section



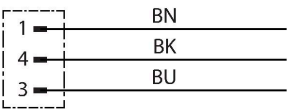
### Contact assignment

Technical data

|                                    |                            |
|------------------------------------|----------------------------|
| Bending cycles                     | ≥ 10 million               |
| Admissible travel path, horizontal | 5 m (at 5 m/s²)            |
| Admissible travel path, vertical   | 2 m (at 5 m/s²)            |
| Torsional stress                   | ± 360 °/m                  |
| Torsion cycles                     | Max. 5 million             |
| Torsion speed                      | 20 Cycles/min              |
| Ambient temperature (fixed)        | -50...+80 °C               |
| Ambient temperature (mobile)       | -25...+80 °C               |
| Halogen-free                       | Acc. to IEC 60754-1-2      |
| LABS free                          | Acc. to PV3.10.7           |
| Oil-resistant                      | Acc. to EN 60811-2-1       |
| Flame-retardant                    | Acc. to IEC 60332-2-2, FT2 |
| Approvals                          | cULus<br>CE<br>UKCA        |



Circuit Diagram



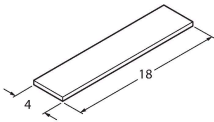
Accessories

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



HA8141-06905407

Field-wireable female connector, M12 × 1, straight, 4-pin, insulation piercing connection, cable feedthrough 4.0 to 5.1 mm, core cross-section/terminal capacity 0.14 to 0.34 mm², plastic housing, metal nut

HA8241-06905401

Field-wireable female connector, M12 × 1, angled, 4-pin, insulation piercing connection, cable feedthrough 4.0 to 5.1 mm, core cross-section/terminal capacity 0.14 to 0.34 mm², plastic housing, metal nut

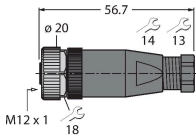
B8141-069049

Field-wireable female connector, M12 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 4.0 to 6.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², plastic housing, plastic nut

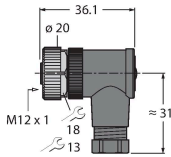
B8241-069048

Field-wireable female connector, M12 × 1, angled, 4-pin, screw terminal connection, cable feedthrough 4.0 to 6.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², plastic housing, plastic nut

|          |         |          |         |
|----------|---------|----------|---------|
| BM8141-0 | 6935145 | BM8241-0 | 6935889 |
|----------|---------|----------|---------|

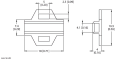


Field-wireable female connector, M12 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 4.0 to 6.0 mm, core cross-section/terminal capacity 0.25 to 0.75 mm², plastic housing, metal nut



Field-wireable female connector, M12 × 1, angled, 4-pin, screw terminal connection, cable feedthrough 4.0 to 6.0 mm, core cross-section/terminal capacity 0.25 to 0.75 mm², plastic housing, metal nut

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 |