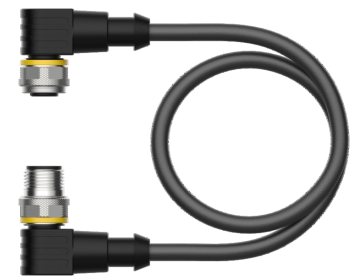
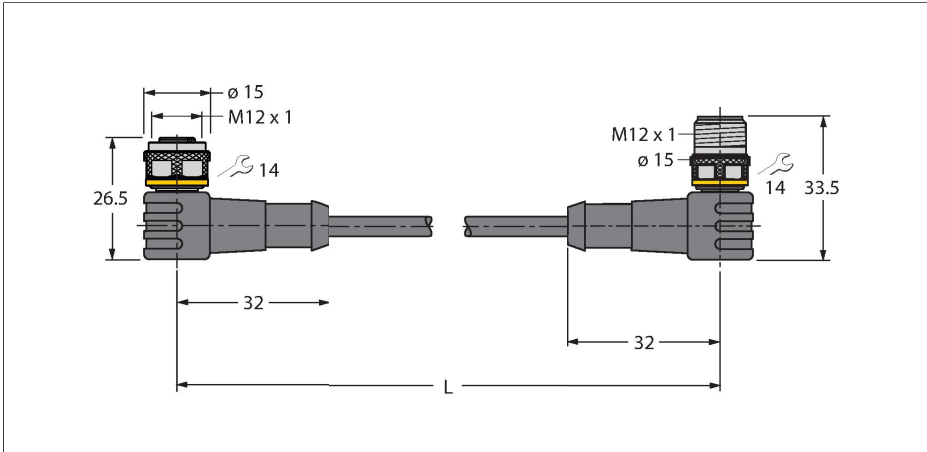


# WKC4.4T-1-WSC4.4T/TRL

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



### Technical data

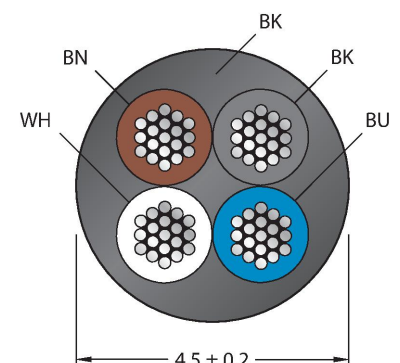
|                              |                                         |
|------------------------------|-----------------------------------------|
| Type                         | WKC4.4T-1-WSC4.4T/TRL                   |
| ID                           | 6543052                                 |
| Connector A                  | Female, M12 × 1, Angled, A-coded        |
| Number of pins               | 4                                       |
| 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, Angled, A-coded          |
| Number of Pins               | 4                                       |
| 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 4.5 mm ±0.20                          |
| Cable length                 | 1 m                                     |
| Cable jacket                 | PUR, Black                              |

### Features



- Female M12, angled, 4-pin
- Male M12, angled, 4-pin
- Jacket material: PUR
- Jacket color: black
- Suitable for drag chain use
- Torsion resistant ( $\pm 360^\circ/\text{m}$ )
- 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: 1.0 m

### Cable Cross-Section



### Contact assignment

Technical data

|                                          |                            |
|------------------------------------------|----------------------------|
| Core insulation                          | PP                         |
| Core cross-section                       | 4 x 0.34 mm²               |
| Arrangement of strands                   | 42 x 0.1 mm                |
| Core colors                              | BN, WH, BU, BK             |
| Electrical properties at +20 °C          |                            |
| Rated voltage                            | 250 V                      |
| Test voltage                             | 2000 V                     |
| Current                                  | 4 A                        |
| Mechanical and chemical properties       |                            |
| Bending radius (stationary installation) | ≥ 5 x Ø                    |
| Bending radius (flexible use)            | ≥ 10 x Ø                   |
| 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

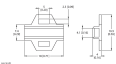


Accessories

|                                                                                                                       |         |                                                                                                                                         |         |
|-----------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|---------|
| TORQUE-WRENCH-SET-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; |

| Dimension drawing | Type | ID |                                                          |
|-------------------|------|----|----------------------------------------------------------|
|                   |      |    | dimensions 4 × 18 mm; delivery unit: 50 pcs. per package |