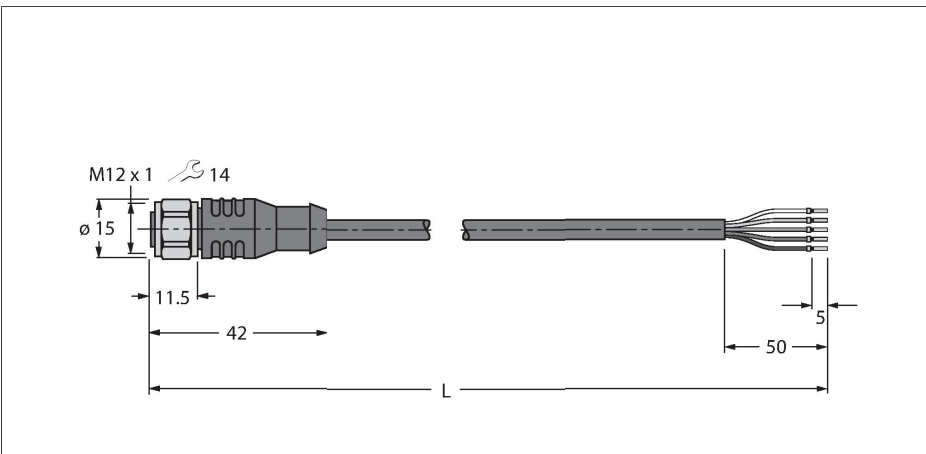


# RKCV4.5T-50/TXL

## Actuator and Sensor Cable, PUR – Connection Cable



### Features

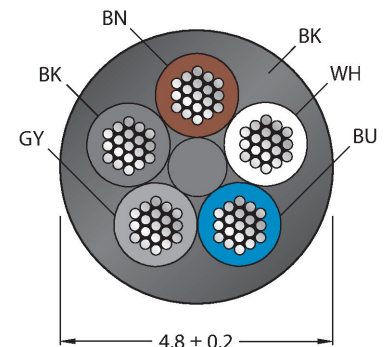


- Female M12, straight, 5-pin
- Coupling nut/screw, stainless steel
- Jacket material: PUR
- Jacket color: black
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Resistant to welding sparks
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 50 m

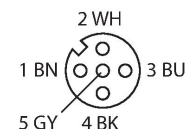
### Technical data

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Type                                   | RKCV4.5T-50/TXL                        |
| ID                                     | 6628743                                |
| 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                     | Stainless Steel, V4A                   |
| Seal                                   | Plastic, FPM/FKM                       |
| Mechanical lifespan                    | > 100 Mating cycles                    |
| Pollution degree                       | 3                                      |
| Protection class                       | IP67, IP69K, Only in screwed condition |
| <b>Cable</b>                           |                                        |
| Cable diameter                         | Ø 4.8 mm ±0.20                         |
| Cable length                           | 50 m                                   |
| Cable jacket                           | PUR, Black                             |
| Core insulation                        | PP                                     |
| Core cross-section                     | 5 x 0.34 mm <sup>2</sup>               |
| Arrangement of strands                 | 42 x 0.1 mm                            |
| Core colors                            | BN, WH, BU, BK, GY                     |
| <b>Electrical properties at +20 °C</b> |                                        |
| Rated voltage                          | 60 V                                   |
| Test voltage                           | 2000 V                                 |
| Current                                | 4 A                                    |
| Insulation resistance                  | > 30.5 MΩ/km                           |
| forward resistance                     | max. 57 Ω/km                           |

### Cable Cross-Section



### Contact assignment



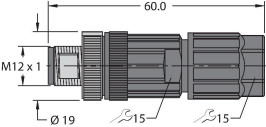
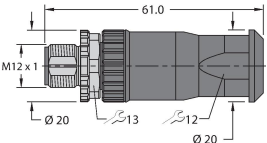
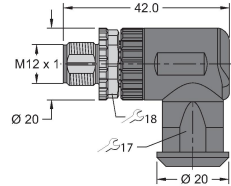
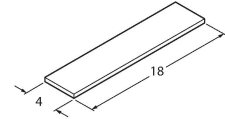
### Circuit Diagram



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           |

Accessories

|                                                                                     |           |                                                                                                                                                                                                                 |                                                                                      |           |                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FW-ERSPM0526-SA-P-0408                                                              | 100002535 | Field-wireable male connector, M12 × 1, straight, 5-pin, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm², plastic housing, metal retaining screw     | FW-ERSPM0516-SA-S-0408                                                               | 100002289 | Field-wireable male connector, M12 × 1, straight, 5-pin, screw terminal connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.25 to 1.5 mm², plastic housing, metal retaining screw |
|  |           |                                                                                                                                                                                                                 |  |           |                                                                                                                                                                                                                   |
| FW-EWSPM0516-SA-S-0408                                                              | 100002291 | Field-wireable male connector, M12 × 1, angled, 5-pin, screw terminal connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.25 to 1.5 mm², plastic housing, metal retaining screw | 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                                                                         |                                                                                      |           |                                                                                                                                                                                                                   |
|  |           |                                                                                                                                                                                                                 |                                                                                      |           |                                                                                                                                                                                                                   |

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 |