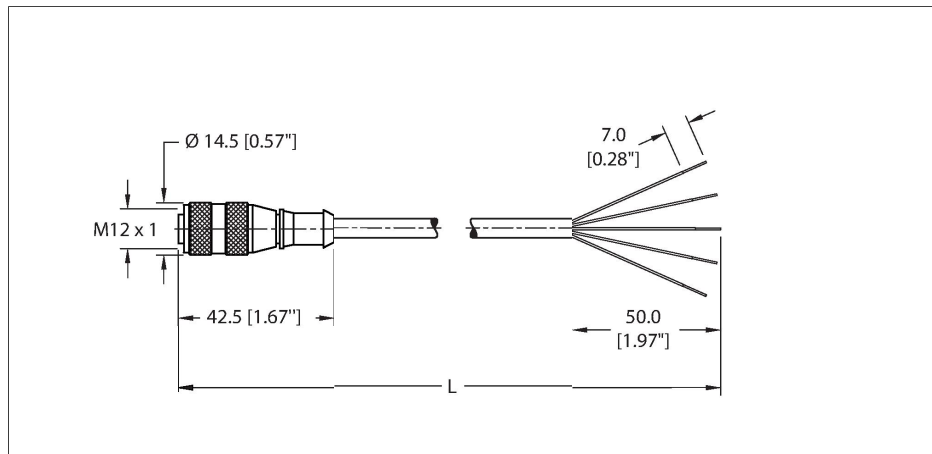


# RK 4.5T-6

## Actuator and Sensor Cable – Connection Cable

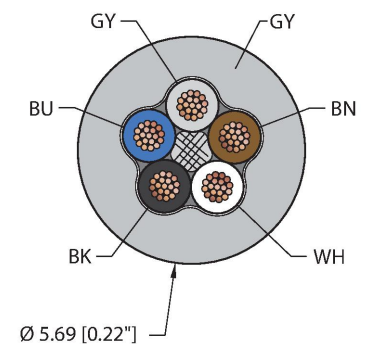


### Features



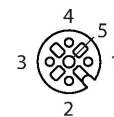
- M12 female connector, straight, 5-pin
- Instrumentation Tray Cable
- Gray PVC jacket, 5X22 AWG
- Sunlight Resistant
- -40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL 1685 FT4, UL1061, CSA FT4
- Flexlife® and C-Track Approved
- Cable length: 6.0 m

### Cable Cross-Section



### Contact assignment

#### Connector A



### Diagram

|   |    |
|---|----|
| 1 | BN |
| 2 | WH |
| 3 | BU |
| 4 | BK |
| 5 | GY |

### Technical data

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| <b>Type</b>                      | RK 4.5T-6                                                                   |
| <b>Ident. no.</b>                | U2189                                                                       |
| <b>Connector A</b>               | Female, M12 x 1, Straight, A-code                                           |
| <b>Design specification</b>      | acc. to IEC 61076-2-101                                                     |
| <b>Number of pins</b>            | 5                                                                           |
| <b>Contacts</b>                  | Bronze, CuSn, Gold-plated                                                   |
| <b>Contact carriers</b>          | Plastic, TPU, Black                                                         |
| <b>Connector body</b>            | Plastic, TPU, Yellow                                                        |
| <b>Coupling nut/screw</b>        | Brass, CuZn, Nickel-plated                                                  |
| <b>Seal</b>                      | O ring, Plastic, FKM/FPM                                                    |
| <b>Mechanical lifespan</b>       | > 100 Mating cycles                                                         |
| <b>Pollution degree</b>          | 3                                                                           |
| <b>Protection class</b>          | IP68, IP69K                                                                 |
|                                  | NEMA: 1, 3, 4, 6P                                                           |
| <b>Tightening torque (range)</b> | 0.8 ... 1 Nm<br>(observe max. torque of mating connector!)                  |
| <b>Cable</b>                     |                                                                             |
| <b>Cable ID</b>                  | RF50543                                                                     |
|                                  | 5                                                                           |
| <b>Cable diameter</b>            | Ø 5.69 mm                                                                   |
| <b>Cable length</b>              | 6 m (+ 50 mm or 4 % of the length/-0.0, depending on which value is larger) |
| <b>Cable jacket</b>              | PVC, Gray                                                                   |
| <b>Conductor diameter</b>        | 0.054 "                                                                     |
| <b>Conductor material</b>        | ?                                                                           |
| <b>Core insulation</b>           | PVC                                                                         |
| <b>Core cross-section</b>        | 5 x 22 AWG [Similar to 0.34 mm²]                                            |
| <b>Arrangement of strands</b>    | 19 x 0.0058 "                                                               |

## Technical data

|                                           |                                                                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Core colors                               | BN, WH, BU, BK, GY                                                                                                                                              |
| <b>Electrical properties at +20 °C</b>    |                                                                                                                                                                 |
| Rated voltage                             | 250 V                                                                                                                                                           |
| Current                                   | 4 A                                                                                                                                                             |
| <b>Mechanical and chemical properties</b> |                                                                                                                                                                 |
| Bending radius (stationary installation)  | ≥ 5 x Ø                                                                                                                                                         |
| Bending radius (flexible use)             | ≥ 10 x Ø                                                                                                                                                        |
| Cold flexural strength                    | -40 °C                                                                                                                                                          |
| Bending cycles 20 x Ø                     | 10 million *                                                                                                                                                    |
| C-track                                   | Yes                                                                                                                                                             |
| Stationary                                | -40 °C...+105 °C                                                                                                                                                |
| In motion                                 | 5 °C...+105 °C                                                                                                                                                  |
|                                           | -20 °C...+105 °C                                                                                                                                                |
| <b>Approval</b>                           |                                                                                                                                                                 |
| Approvals                                 | UL 2238<br>CSA C22.2 No. 182.3<br>CE<br>RoHS                                                                                                                    |
| <b>Note</b>                               |                                                                                                                                                                 |
|                                           | - Flex values can be reduced when used in extreme temperatures, in contact with certain chemicals, above the nominal speed or below the nominal bending radius. |
|                                           | - We reserve the right to make technical modifications without prior notice.                                                                                    |