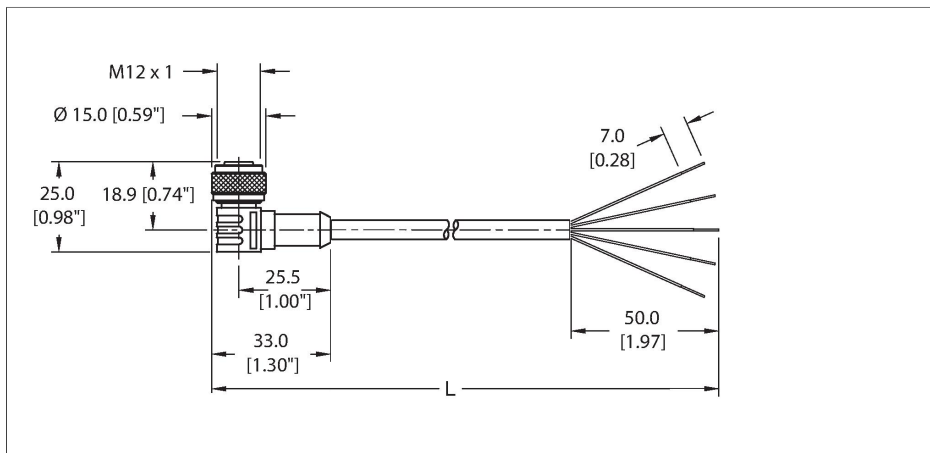


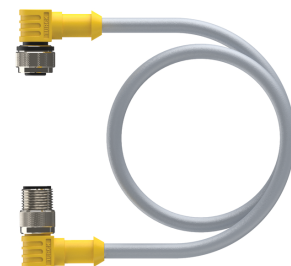
# WK 4.5T-1.3-WS 4.5T

## Actuator and Sensor Cable – Connection Cable



### Technische Daten

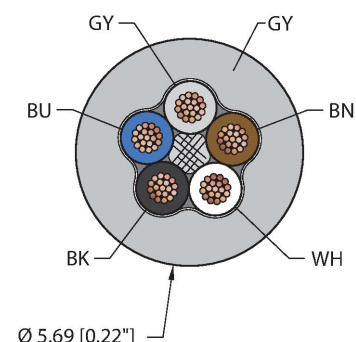
|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | WK 4.5T-1.3-WS 4.5T                                     |
| ID                              | U-09458                                                 |
| Connector A                     | Female, M12 × 1, Right angle, A-code                    |
| Design specification            | Acc. to IEC 61076-2-101                                 |
| Number of contacts              | 5                                                       |
| Contacts                        | Brass, CuZn, Gold-plated                                |
| Contact carriers                | Plastic, Nylon or TPU, Black                            |
| Connector body                  | Plastic, TPU, Yellow                                    |
| Coupling nut                    | Brass, CuZn, Nickel-plated                              |
| Connector seal                  | O-ring, Plastic, FKM/FPM                                |
| Tightening torque (range)       | 0.8 ... 1 Nm<br>(note max. torque of mating connector!) |
| Mechanical life                 | > 100 Mating cycles                                     |
| Pollution degree                | 3                                                       |
| Protection class (When coupled) | IP68, IP69K                                             |
|                                 | NEMA: 1, 3, 4, 6P                                       |
| Connector B                     | Male, M12 × 1, Right angle                              |
| Design specification            | Acc. to IEC 61076-2-101                                 |
| Number of contacts              | 5                                                       |
| Contacts                        | Brass, CuZn, Gold-plated                                |
| Contact carriers                | Plastic, PA, Yellow                                     |
| Connector body                  | Plastic, TPU, Yellow                                    |
| Coupling nut                    | Brass, CuZn, Nickel-plated                              |
| Tightening torque               | 0.8 ... 1 Nm<br>(note max. torque of mating connector!) |



### Features

- 
- IP68/ IP69K**  
DEGREE OF PROTECTION
- M12, Female, Right angle, 5-pin
- M12, Male, Right angle, 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 cross section



### Contact assignment

## Technische Daten

|                                 |                     |
|---------------------------------|---------------------|
| Mechanical life                 | > 100 Mating cycles |
| Pollution degree                | 3                   |
| Protection class (When coupled) | IP68, IP69K         |
|                                 | NEMA: 1, 3, 4, 6P   |

| Cable data                    |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Cable ID                      | RF50543                                                   |
| Total number of conductors    | 5                                                         |
| Cable diameter                | Ø 5.69 mm                                                 |
| Length (L)                    | 1.3 m, (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                  | PVC, Gray                                                 |
| Conductor diameter            | 0.054 "                                                   |
| Conductor material            | TC (tinned copper)                                        |
| Conductor insulation material | PVC                                                       |
| Conductor size                | 5 x 22 AWG [Similar to 0.34 mm²]                          |
| Number of strands x O.D.      | 19 x 0.0058 "                                             |
| Conductor colors              | BN, WH, BU, BK, GY                                        |

| Electrical properties at +20 °C |       |
|---------------------------------|-------|
| Rated voltage                   | 250 V |
| Current                         | 4 A   |

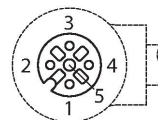
| Mechanical and chemical properties  |                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------|
| Bending radius (static)             | ≥ 5 x Ø                                                                              |
| Bending radius (dynamic)            | ≥ 10 x Ø                                                                             |
| UL cold bend rating                 | -40 °C                                                                               |
| Flex rating 20 x Ø                  | 10 million cycles                                                                    |
|                                     | *When properly installed @ 20°C, 50%RH, and a cycle speed of ≤0.5 cycles per second. |
| C-Track                             | Yes                                                                                  |
| Ambient temperature range (static)  | -40...+105 °C                                                                        |
| Ambient temperature range (dynamic) | 5...+105 °C                                                                          |
| Temperature range (installation)    | -10...+105 °C                                                                        |

| Approval  |                                                      |
|-----------|------------------------------------------------------|
| Approvals | UL 2238<br>CSA C22.2 No. 182.3<br>CE<br>UKCA<br>RoHS |

| Note |                                                                                 |
|------|---------------------------------------------------------------------------------|
|      | - Flex ratings may be reduced if used in extreme temperatures, exposure to cer- |

Connector A

Connector B



## Circuit Diagram

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

Technische Daten

tain chemicals, operating above the rated cycle speed, or operating below the rated cable bend radius.

- We reserve the right to make technical alterations without prior notice.

Montagezubehör

**TORQUE-WRENCH-SET-M12-LEGACY**

**A900153**



Adjustable torque driver to connect to a Ø15mm knurl. Compatible with the redesigned and legacy M12 cordsets. Includes (1) adjustable torque driver, (1) adjustment tool, (1) 1/4"square to 4mm hex adaptor bit, and (1) Ø15mm spring loaded clamp bit

Montagezubehör

**M12-CORDSETS-MOUNTING-CLIP-(10/BAG)**

**100016882**



10 Pack of black mounting clips and M4x8mm mounting screws, used to secure cable to cable connection points.