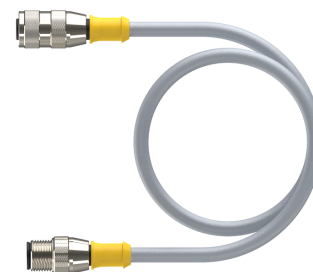
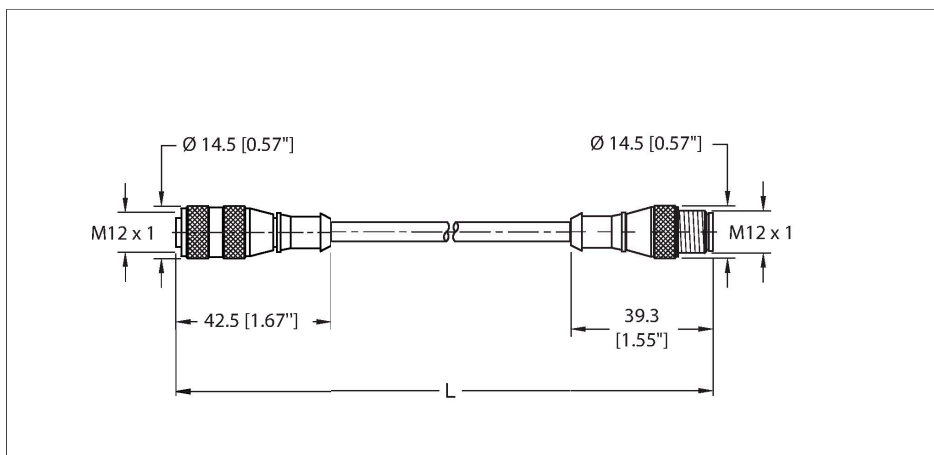


# RK 4.5T-2-RS 4.5T/S653

## Actuator and Sensor Cable, PVC – Extension Cable



### Technische Daten

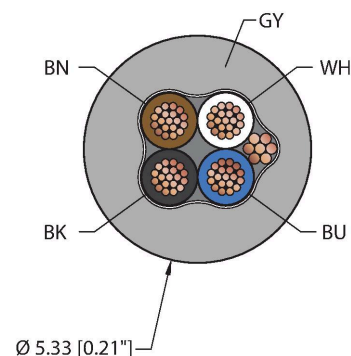
|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | RK 4.5T-2-RS 4.5T/S653                                  |
| ID                              | U2187-09                                                |
| Connector A                     | Female, M12 × 1, Straight, 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, Straight, 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, 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



- M12 female connector, straight, 5-pin
- M12 male connector, straight, 5-pin
- Jacket material: PVC
- Jacket color: gray
- Protection class: IP68, IP69K
- M12, Female, Straight, 5-pin
- M12, Male, Straight, 5-pin
- Instrumentation Tray Cable
- Gray PVC jacket, shielded, 4X22 AWG
- Sunlight Resistant
- -40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL 1685 FT4, UL1061, CSA FT4

### Cable cross section

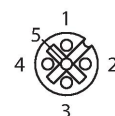


## Technische Daten

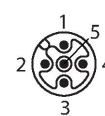
|                                                                                                                                                                                      |                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Mechanical life                                                                                                                                                                      | > 100 Mating cycles                                     |
| Pollution degree                                                                                                                                                                     | 3                                                       |
| Protection class (When coupled)                                                                                                                                                      | IP68, IP69K                                             |
|                                                                                                                                                                                      | NEMA: 1, 3, 4, 6P                                       |
| <b>Cable data</b>                                                                                                                                                                    |                                                         |
| Cable ID                                                                                                                                                                             | RF50577                                                 |
| Total number of conductors                                                                                                                                                           | 4                                                       |
| Cable diameter                                                                                                                                                                       | Ø 5.33 mm                                               |
| Length (L)                                                                                                                                                                           | 2 m, (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                                                                                                                                                                         | PVC, Gray                                               |
| Shielding                                                                                                                                                                            | Aluminum/polyester (IN), 24 AWG, TC (Tinned Copper)     |
| Conductor diameter                                                                                                                                                                   | 0.054 "                                                 |
| Conductor material                                                                                                                                                                   | TC (tinned copper)                                      |
| Conductor insulation material                                                                                                                                                        | PVC                                                     |
| Conductor size                                                                                                                                                                       | 4 x 22 AWG [Similar to 0.34 mm²]                        |
| Number of strands x O.D.                                                                                                                                                             | 19 x 0.0058 "                                           |
| Conductor colors                                                                                                                                                                     | BN, WH, BU, BK                                          |
| <b>Electrical properties at +20 °C</b>                                                                                                                                               |                                                         |
| Rated voltage                                                                                                                                                                        | 250 V                                                   |
| Current                                                                                                                                                                              | 4 A                                                     |
| <b>Mechanical and chemical properties</b>                                                                                                                                            |                                                         |
| Bending radius (static)                                                                                                                                                              | ≥ 5 x Ø                                                 |
| Bending radius (dynamic)                                                                                                                                                             | ≥ 15 x Ø                                                |
| UL cold bend rating                                                                                                                                                                  | -40 °C                                                  |
| Ambient temperature range (static)                                                                                                                                                   | -40...+105 °C                                           |
| Ambient temperature range (dynamic)                                                                                                                                                  | 5...+105 °C                                             |
| Temperature range (installation)                                                                                                                                                     | -10...+105 °C                                           |
| <b>Approval</b>                                                                                                                                                                      |                                                         |
| Approvals                                                                                                                                                                            | UL 2238<br>CSA C22.2 No. 182.3<br>CE<br>UKCA<br>RoHS    |
| <b>Note</b>                                                                                                                                                                          |                                                         |
| - Flex ratings may be reduced if used in extreme temperatures, exposure to certain chemicals, operating above the rated cycle speed, or operating below the rated cable bend radius. |                                                         |

## Contact assignment

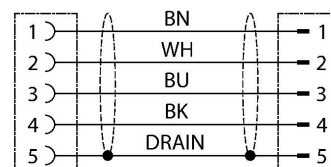
Connector A



Connector B



## Circuit Diagram



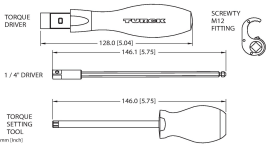
Technische Daten

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

Montagezubehör

TORQUE-WRENCH-SET-M12-LEGACY

A900153

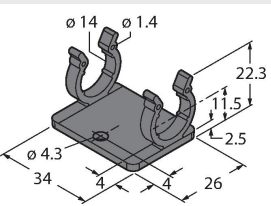


Adjustable torque driver to connect to a Ø15mm knurl. Compatible with the redesigned and legacy M12 cordsets. Includes (1) adjustable torque driver, (1) adjustment tool, (1) 1/4"square to 4mm hex adaptor bit, and (1) Ø15mm spring loaded clamp bit

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.