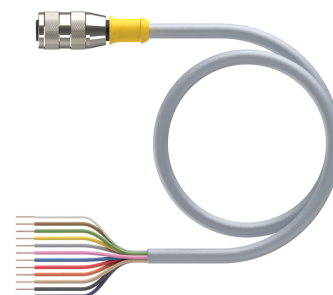
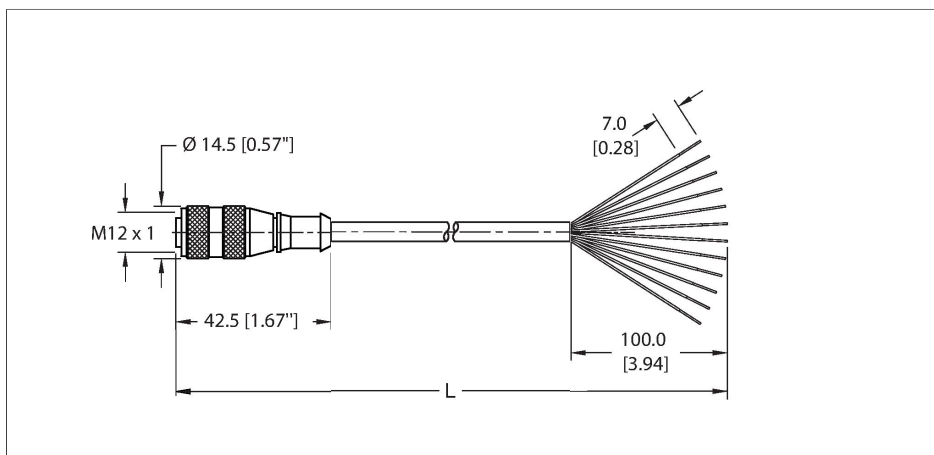


# RK 12T-16.8

## Actuator and Sensor Cable – Connection Cable



### Technische Daten

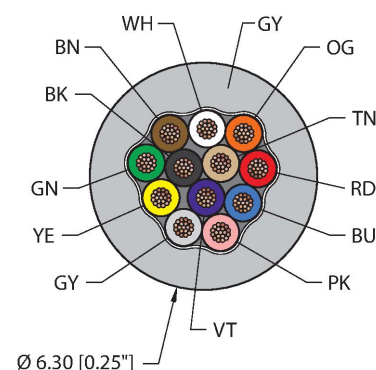
|                                 |                                                            |
|---------------------------------|------------------------------------------------------------|
| Type                            | RK 12T-16.8                                                |
| ID                              | U-81779                                                    |
| Connector A                     | Female, M12 × 1, Straight, A-code                          |
| Design specification            | Acc. to IEC 61076-2-101                                    |
| Number of contacts              | 12                                                         |
| 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                                          |
| <b>Cable data</b>               |                                                            |
| Cable ID                        | RF50991                                                    |
| Total number of conductors      | 12                                                         |
| Cable diameter                  | Ø 6.3 mm                                                   |
| Length (L)                      | 16.8 m, (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                    | PVC, Gray                                                  |
| Conductor diameter              | 0.043 "                                                    |
| Conductor material              | TC (tinned copper)                                         |

### Features



- M12, Female, Straight, 12-pin
- General Purpose Cable
- Gray PVC jacket, 12X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1

### Cable cross section

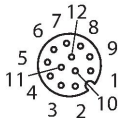


### Contact assignment

Technische Daten

|                                                                                                                                                                                      |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Conductor insulation material                                                                                                                                                        | PVC                                                                                  |
| Conductor size                                                                                                                                                                       | 12 x 24 AWG [Similar to 0.25 mm²]                                                    |
| Number of strands x O.D.                                                                                                                                                             | 19 x 36 AWG                                                                          |
| Conductor colors                                                                                                                                                                     | WH, BN, GN, YE, GY, PK, BU, RD, OG, TN, BK, VT                                       |
| Electrical properties at +20 °C                                                                                                                                                      |                                                                                      |
| Rated voltage                                                                                                                                                                        | 30 V                                                                                 |
| Current                                                                                                                                                                              | 2 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. |
| 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 certain 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.                                                                                                           |                                                                                      |

Connector A



Circuit Diagram

|    |    |
|----|----|
| 1  | WH |
| 2  | BN |
| 3  | GN |
| 4  | YE |
| 5  | GY |
| 6  | PK |
| 7  | BU |
| 8  | RD |
| 9  | OG |
| 10 | TN |
| 11 | BK |
| 12 | VT |

Montagezubehör

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

**A900153**

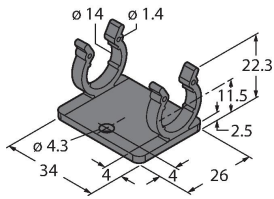
Diagram showing the components of the TORQUE-WRENCH-SET-M12-LEGACY (A900153): an adjustable torque driver, a 1/4" DRIVER, and a TORQUE SETTING TOOL.

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.