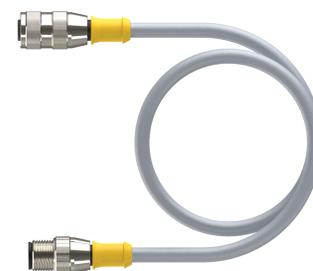
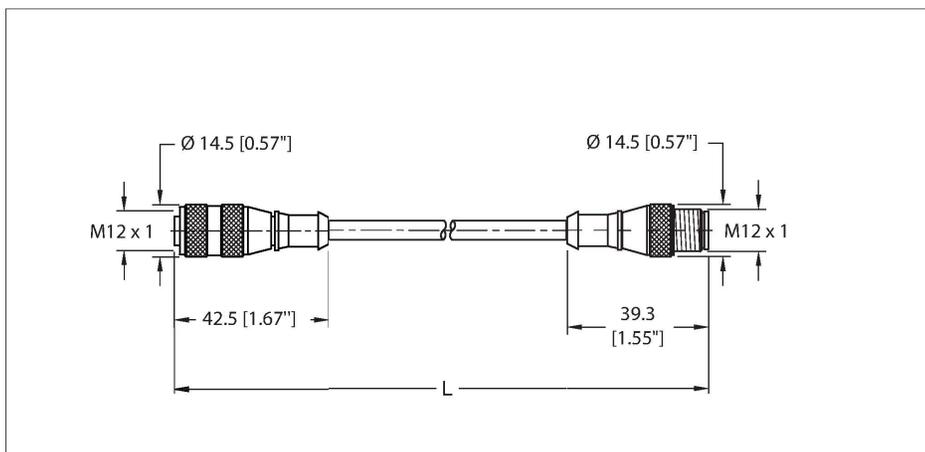


# RK 8T-0.3-RS 8T

## Actuator and Sensor Cable – Extension Cable



### Technische Daten

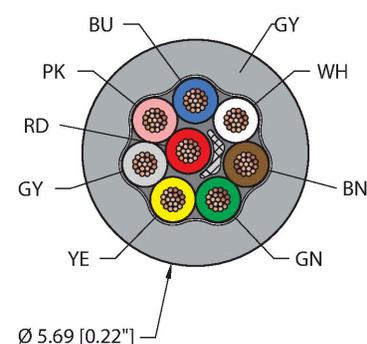
|                                 |   |
|---------------------------------|---|
| Type                            | RK 8T-0.3-RS 8T   |
| ID                              | UX09547   |
| Connector A                     | Female, M12 × 1, Straight, A-code                       |
| Design specification            | Acc. to IEC 61076-2-101                                 |
| Number of contacts              | 8   |
| 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<br>NEMA: 1, 3, 4, 6P                        |
| Connector B                     | Male, M12 × 1, Straight, A-code                         |
| Design specification            | Acc. to IEC 61076-2-101                                 |
| Number of contacts              | 8   |
| Contacts                        | Brass, CuZn, Gold-plated                                |
| Contact carriers                | Plastic, PA, Black                                      |
| 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, Straight, 8-pin
- M12, Male, Straight, 8-pin
- General Purpose Cable
- Gray PVC jacket, 8X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1

### 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                      | RF50753   |
| Total number of conductors    | 8   |
| Cable diameter                | Ø 5.69 mm   |
| Length (L)                    | 0.3 m, (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                  | PVC, Gray   |
| Conductor diameter            | 0.044 "   |
| Conductor material            | TC (tinned copper)  |
| Conductor insulation material | PVC   |
| Conductor size                | 8 x 24 AWG [Similar to 0.25 mm <sup>2</sup> ]             |
| Number of strands x O.D.      | 19 x 36 AWG   |
| Conductor colors              | WH, BN, GN, YE, GY, PK, BU, RD                            |

| Electrical properties at +20 °C |      |
|---------------------------------|------|
| Rated voltage                   | 75 V |
| Current                         | 2 A  |

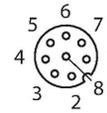
| Mechanical and chemical properties |                   |
|------------------------------------|-------------------|
| Bending radius (static)            | ≥ 5 x Ø           |
| Bending radius (dynamic)           | ≥ 10 x Ø          |
| UL cold bend rating                | -40 °C            |
| Flex 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  |

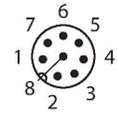
| Approval  |  |
|-----------|--|
| Approvals | UL 2238<br>CSA C22.2 No. 182.3<br>CE<br>UKCA<br>RoHS |

| Note |   |
|------|---|
|      | - Flex ratings may be reduced if used in extreme temperatures, exposure to certain chemicals, operating above the rated |

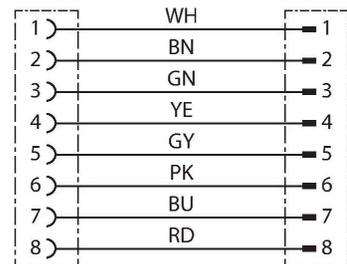
Connector A



Connector B



## Circuit Diagram



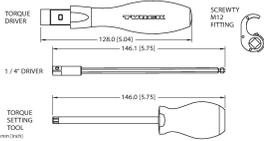
## Technische Daten

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

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

## Montagezubehör

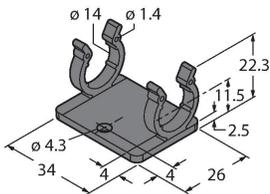
### TORQUE-WRENCH-SET-M12-LEGACY A900153



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.