

# RK 10T-3-RS 10T

## Actuator and Sensor Cable – Extension Cable



### Technische Daten

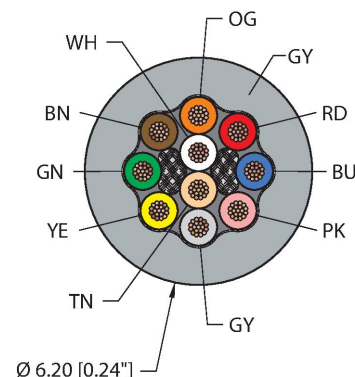
|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | RK 10T-3-RS 10T                                         |
| ID                              | U-01352                                                 |
| Connector A                     | Female, M12 × 1, Straight, A-code                       |
| Design specification            | Acc. to IEC 61076-2-101                                 |
| Number of contacts              | 10                                                      |
| 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              | 10                                                      |
| Contacts                        | Brass, CuZn, Gold-plated                                |
| Contact carriers                | Plastic, Nylon or TPU, 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, 10-pin
- M12, Male, Straight, 10-pin
- General Purpose Cable
- Gray PVC jacket, 10X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1

### Cable cross section



### Contact assignment

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

| Cable data                    |                                                         |
|-------------------------------|---------------------------------------------------------|
| Cable ID                      | RF51004                                                 |
| Total number of conductors    | 10                                                      |
| Cable diameter                | Ø 6.2 mm                                                |
| Length (L)                    | 3 m, (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                  | PVC, Gray                                               |
| Conductor diameter            | 0.043 "                                                 |
| Conductor material            | TC (tinned copper)                                      |
| Conductor insulation material | PVC                                                     |
| Conductor size                | 10 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                  |

| 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 |

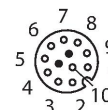
\*When properly installed @ 20°C, 50%RH, and a cycle speed of ≤0.5 cycles per second.

|                                     |               |
|-------------------------------------|---------------|
| Ambient temperature range (static)  | -40...+105 °C |
| Ambient temperature range (dynamic) | 5...+105 °C   |
| Temperature range (installation)    | -10...+105 °C |

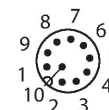
| Approval  |                                                      |
|-----------|------------------------------------------------------|
| Approvals | UL 2238<br>CSA C22.2 No. 182.3<br>CE<br>UKCA<br>RoHS |

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

Connector A



Connector B



## Circuit Diagram

|    |    |    |
|----|----|----|
| 1  | WH | 1  |
| 2  | BN | 2  |
| 3  | GN | 3  |
| 4  | YE | 4  |
| 5  | GY | 5  |
| 6  | PK | 6  |
| 7  | BU | 7  |
| 8  | RD | 8  |
| 9  | OR | 9  |
| 10 | TN | 10 |

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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

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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.