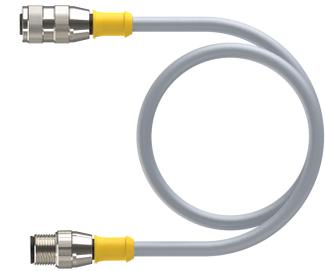
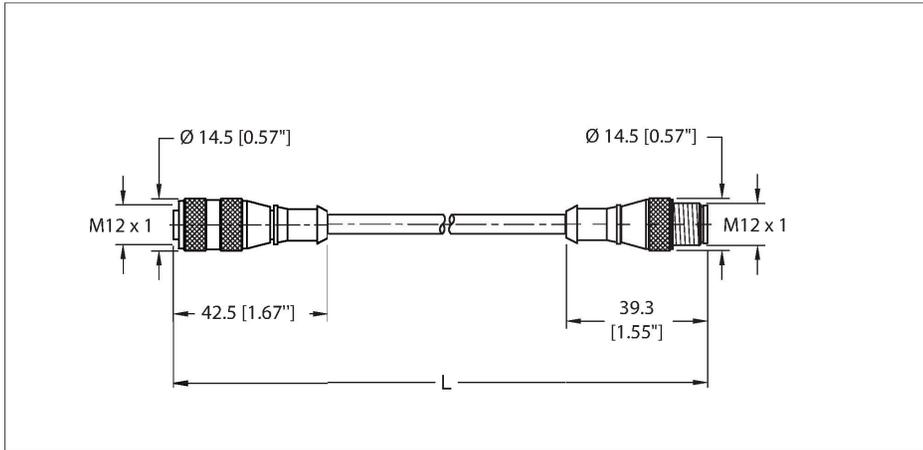


# RK 4.22T-3-RS 4.22T

## Actuator and Sensor Cable – Extension Cable



### Technische Daten

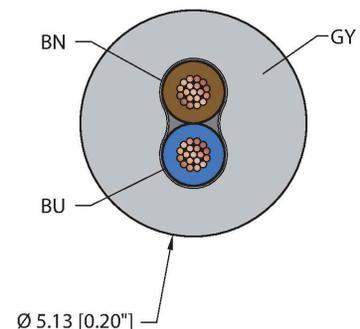
|                                 |   |
|---------------------------------|---|
| Type                            | RK 4.22T-3-RS 4.22T                                     |
| ID                              | U-88834   |
| Connector A                     | Female, M12 × 1, Straight, A-code                       |
| Design specification            | Acc. to IEC 61076-2-101                                 |
| Number of contacts              | 4   |
| 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              | 4   |
| Contacts                        | Brass, CuZn, Gold-plated                                |
| Contact carriers                | Plastic, 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, 2-pin
- M12, Male, Straight, 2-pin
- Instrumentation Tray Cable
- Gray PVC jacket, 2X20 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                      | RF50529   |
| Total number of conductors    | 2   |
| Cable diameter                | Ø 5.13 mm   |
| Length (L)                    | 3 m, (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                  | PVC, Gray   |
| Conductor diameter            | 0.061 "   |
| Conductor material            | TC (tinned copper)                                      |
| Conductor insulation material | PVC   |
| Conductor size                | 2 x 20 AWG [Similar to 0.50 mm <sup>2</sup> ]           |
| Number of strands x O.D.      | 19 x 0.0073 "   |
| Conductor colors              | BN, BU  |

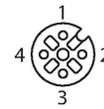
| Electrical properties at +20 °C |       |
|---------------------------------|-------|
| Rated voltage                   | 250 V |
| Current                         | 4 A   |

| 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  |

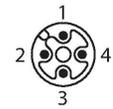
| Approval  |  |
|-----------|--|
| Approvals | UL 2238<br>CSA C22.2 No. 182.3<br>CE<br>UKCA<br>RoHS |

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

Connector A



Connector B



## Circuit Diagram

