

# RK 4.5T-0.3-RS 4.5T/S1587

## Actuator and Sensor Cable – Extension Cable

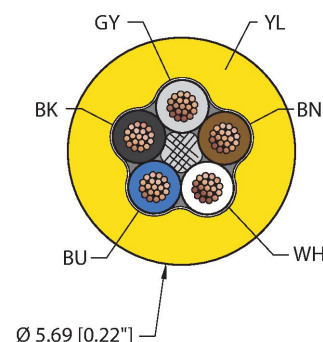


### Features



- M12, Female, Straight, 5-pin
- M12, Male, Straight, 5-pin
- Instrumentation Tray Cable
- Yellow TPE jacket, 5X22 AWG
- Sunlight Resistant
- -40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL 1685 FT4, UL1061, CSA FT4
- Flexlife® and C-Track Approved

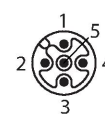
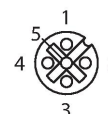
### Cable cross section



### Contact assignment

Connector A

Connector B



### Technische Daten

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | RK 4.5T-0.3-RS 4.5T/S1587                               |
| ID                              | U-88202                                                 |
| Special version                 | S1587 = Weldlife cable                                  |
| 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                                            |

## Technische Daten

|                                           |                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------|
|                                           | (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                                  | RF51898                                                                              |
| Total number of conductors                | 5                                                                                    |
| Cable diameter                            | Ø 5.69 mm                                                                            |
| Length (L)                                | 0.3 m                                                                                |
| Cable jacket                              | TPE, Yellow                                                                          |
| Conductor diameter                        | 0.054 "                                                                              |
| Conductor material                        | TC (tinned copper)                                                                   |
| Conductor insulation material             | PVC                                                                                  |
| Conductor size                            | 5 x 22 AWG [Similar to 0.34 mm²]                                                     |
| Number of strands x O.D.                  | 19 x 0.0058 "                                                                        |
| Conductor colors                          | BN, WH, BU, BK, GY                                                                   |
| <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)                  | ≥ 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                                                                        |
| <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 cer-

## Circuit Diagram



Technische Daten

tain 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.

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.