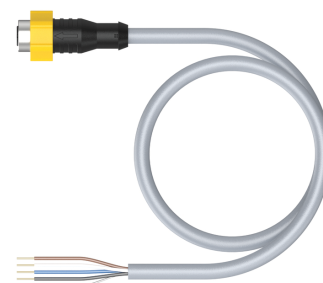
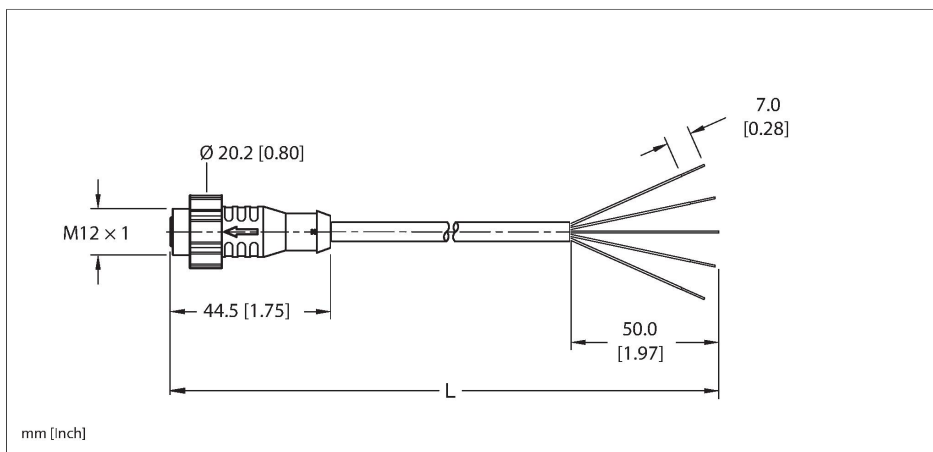


# EKRT-A5.502-DC24-30

## Actuator and Sensor Cable – Connection Cable



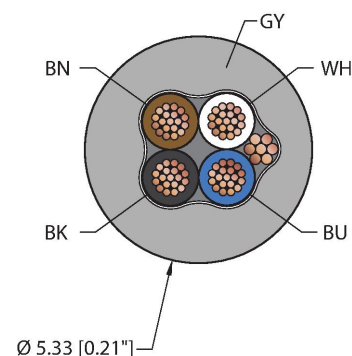
### Technische Daten

|                                 |                                                           |
|---------------------------------|-----------------------------------------------------------|
| Type                            | EKRT-A5.502-DC24-30                                       |
| ID                              | 100040081                                                 |
| Replaces                        | RK 4.5T-x/S653                                            |
| Connector A                     | Female, M12 × 1, Straight, A-code                         |
| Design specification            | Acc. to IEC 61076-2-101                                   |
| Number of contacts              | 5                                                         |
| Contacts                        | Bronze, CuSn, Gold-plated                                 |
| Contact carriers                | Plastic, Nylon or TPU, Black                              |
| Connector body                  | Plastic, TPU, Black                                       |
| Coupling nut                    | Brass, CuZn, Nickel-plated                                |
| Connector seal                  | O-ring, Plastic, FKM/FPM                                  |
| Torque sleeve                   | Plastic, PA, Yellow                                       |
| Tightening torque (range)       | 0.4 ... 1.8 Nm<br>(note max. torque of mating connector!) |
| Mechanical life                 | > 100 Mating cycles                                       |
| Pollution degree                | 3                                                         |
| Protection class (When coupled) | IP67, IP68, IP69, IP69K<br>NEMA: 1, 3, 4, 6P, 12          |
| <b>Cable data</b>               |                                                           |
| Cable ID                        | RF50577                                                   |
| Total number of conductors      | 4                                                         |
| Cable diameter                  | Ø 5.33 mm                                                 |
| Length (L)                      | 30 m                                                      |
| Cable jacket                    | PVC, Gray                                                 |

### Features

- UL US CE UK CA RoHS compliant IP67/IP68 IP69/IP69K DEGREE OF PROTECTION
- M12, Female, Straight, 5-pin, Torque sleeve
- Instrumentation Tray Cable
- Gray PVC jacket, shielded, 4X22 AWG
- Sunlight Resistant
- -40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL 1685 FT4, UL1061, CSA FT4

### Cable cross section

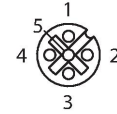


### Contact assignment

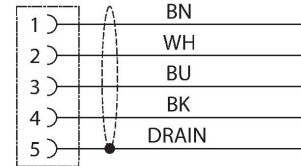
## Technische Daten

|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Shielding                                                                                                                                                                                                                                                                                                                                                                                                                            | Aluminum/polyester (IN), 24 AWG, TC (Tinned Copper)  |
| Conductor diameter                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.054 "                                              |
| Conductor material                                                                                                                                                                                                                                                                                                                                                                                                                   | TC (tinned copper)                                   |
| Conductor insulation material                                                                                                                                                                                                                                                                                                                                                                                                        | PVC                                                  |
| Conductor size                                                                                                                                                                                                                                                                                                                                                                                                                       | 4 x 22 AWG [Similar to 0.34 mm <sup>2</sup> ]        |
| Number of strands x O.D.                                                                                                                                                                                                                                                                                                                                                                                                             | 19 x 0.0058 "                                        |
| Conductor colors                                                                                                                                                                                                                                                                                                                                                                                                                     | BN, WH, BU, BK                                       |
| <b>Electrical properties at +20 °C</b>                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |
| Rated voltage                                                                                                                                                                                                                                                                                                                                                                                                                        | 250 V <sub>AC</sub> /300 V <sub>DC</sub>             |
| Current                                                                                                                                                                                                                                                                                                                                                                                                                              | 4 A                                                  |
| <b>Mechanical and chemical properties</b>                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |
| Bending radius (static)                                                                                                                                                                                                                                                                                                                                                                                                              | ≥ 5 x Ø                                              |
| Bending radius (dynamic)                                                                                                                                                                                                                                                                                                                                                                                                             | ≥ 15 x Ø                                             |
| UL cold bend rating                                                                                                                                                                                                                                                                                                                                                                                                                  | -40 °C                                               |
| 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>                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      |
| <p>- 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.</p> <p>- The torque sleeve can be removed, before or after installation by inserting a small flat screwdriver near the relief by the arrow and prying.</p> <p>- We reserve the right to make technical alterations without prior notice.</p> |                                                      |

Connector A



## Circuit Diagram



Montagezubehör

M12-TORQUE-SLEEVE,YELLOW(10PACK) A900167



10 Pack of Yellow Torque Sleeves for the new M12 cordsets. Compatible with male, female, straight and right-angled, stainless steel and nickel-plated brass coupling nuts.

TORQUE-WRENCH-SET-M12/SW13 A900152



Adjustable torque driver to connect to the 13mm hex. Compatible with redesigned M12 cordsets, M12 Power, and M12 X-code. NOT Compatible with legacy M12 cordsets. Includes (1) adjustable torque driver, (1) adjustment tool, and (1) 13mm forked 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.