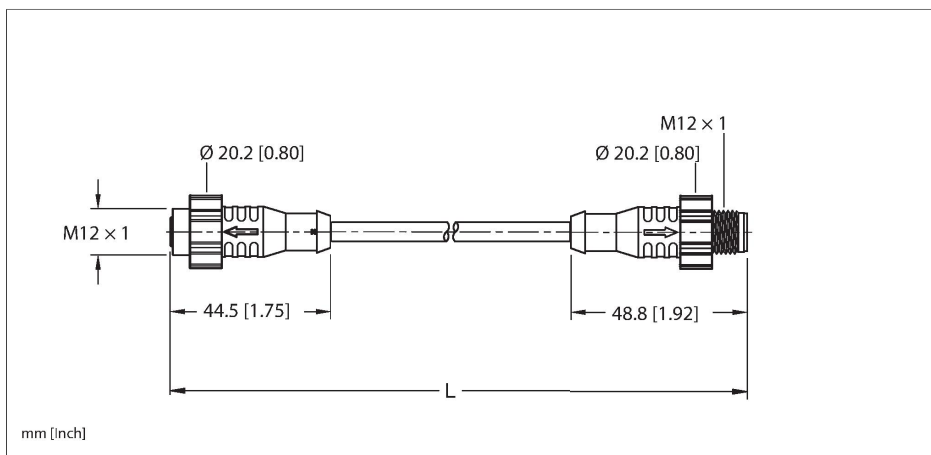


# EKRT-ESRT-A4.220-GC0K-2

## Actuator and Sensor Cable – Extension Cable



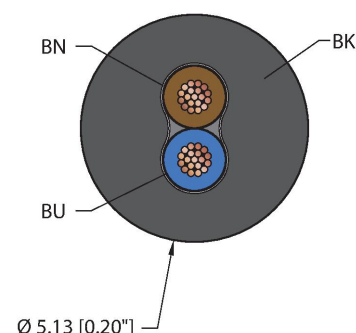
### Technische Daten

|                                 |                                                           |
|---------------------------------|-----------------------------------------------------------|
| Type                            | EKRT-ESRT-A4.220-GC0K-2                                   |
| ID                              | 100040033                                                 |
| Connector A                     | Female, M12 × 1, Straight, A-code                         |
| Design specification            | Acc. to IEC 61076-2-101                                   |
| Number of contacts              | 4                                                         |
| 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          |
| Connector B                     | Male, M12 × 1, Straight, A-code                           |
| Design specification            | Acc. to IEC 61076-2-101                                   |
| Number of contacts              | 4                                                         |
| Contacts                        | Bronze, CuSn, Gold-plated                                 |
| Contact carriers                | Plastic, Nylon or TPU, Black                              |
| Connector body                  | Plastic, TPU, Black                                       |
| Coupling nut                    | Brass, CuZn, Nickel-plated                                |
| Torque sleeve                   | Plastic, PA, Yellow                                       |

### Features

- M12, Female, Straight, 2-pin, Torque sleeve
- M12, Male, Straight, 3-pin, Torque sleeve
- Instrumentation Tray Cable
- Black 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

|                                 |                                                           |
|---------------------------------|-----------------------------------------------------------|
| Tightening torque               | 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                                   |
|                                 | NEMA: 1, 3, 4, 6P, 12                                     |

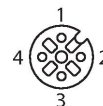
| Cable data                    |                                  |
|-------------------------------|----------------------------------|
| Cable ID                      | RF51418                          |
| Total number of conductors    | 2                                |
| Cable diameter                | Ø 5.13 mm                        |
| Length (L)                    | 2 m                              |
| Cable jacket                  | PVC, Black                       |
| Conductor diameter            | 0.061 "                          |
| Conductor material            | TC (tinned copper)               |
| Conductor insulation material | PVC                              |
| Conductor size                | 2 x 20 AWG [Similar to 0.50 mm²] |
| Number of strands x O.D.      | 19 x 0.0073 "                    |
| Conductor colors              | BN, BU                           |

| Electrical properties at +20 °C    |                                          |
|------------------------------------|------------------------------------------|
| Rated voltage                      | 250 V <sub>AC</sub> /300 V <sub>DC</sub> |
| 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                        |

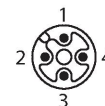
|                                     |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
|                                     | *When properly installed @ 20°C,<br>50%RH, and a cycle speed of ≤0.5 cycles<br>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 |

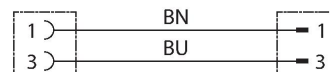
Connector A



Connector B



## Circuit Diagram



Technische Daten

| Note |                                                                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | - 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. |
|      | - The torque sleeve can be removed, before or after installation by inserting a small flat screwdriver near the relief by the arrow and prying.                                      |
|      | - We reserve the right to make technical alterations without prior notice.                                                                                                           |

Montagezubehör

M12-TORQUE-SLEEVE,YELLOW(10PACK)

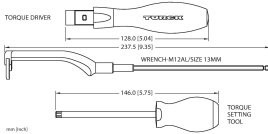
A900167

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

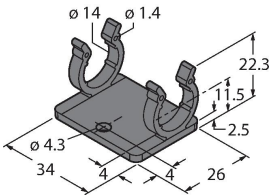


Adjustable torque driver to connect to the 13mm hex. Compatible with redesigned M12 cordsets, M12 Power, and M12 X-code. NOT Compatible with legacy M12 cordsets. Includes (1) adjustable torque driver, (1) adjustment tool, and (1) 13mm forked bit.

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.