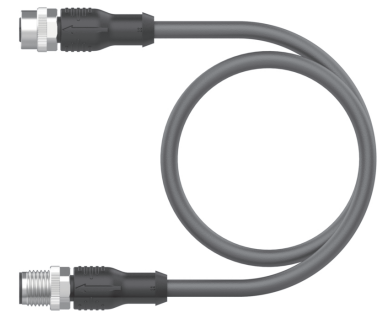
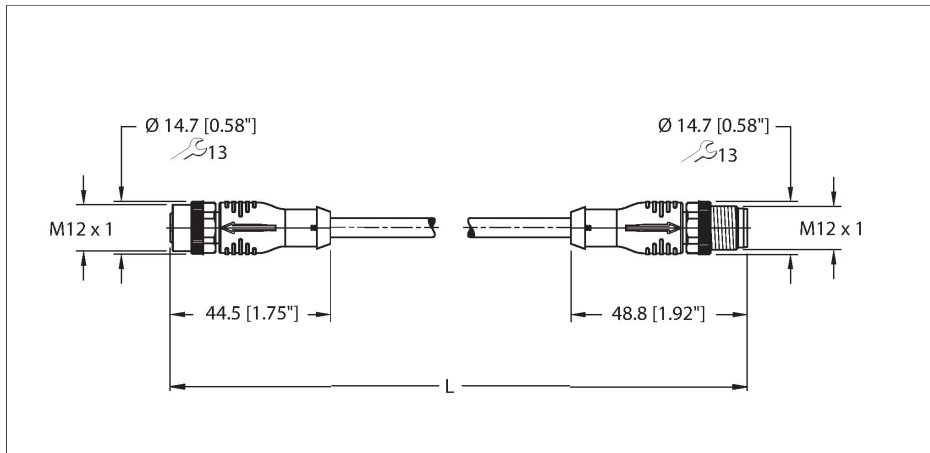


# EKRB-ESRB-A5.500-GC2K-1

## Actuator and Sensor Cable – Extension Cable



### Technical data

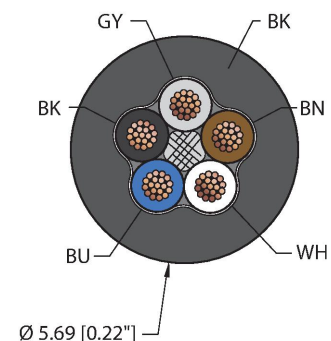
|                                 |                                                           |
|---------------------------------|-----------------------------------------------------------|
| Type                            | EKRB-ESRB-A5.500-GC2K-1                                   |
| ID no.                          | 100025274                                                 |
| Replaces                        | RK 4.5T-1-RS 4.5T/S90                                     |
| Connector A                     | Female, M12 × 1, Straight, A-code                         |
| Design specification            | Acc. to IEC 61076-2-101                                   |
| Number of Pins                  | 5                                                         |
| Contacts                        | Bronze, CuSn, Gold-plated                                 |
| Contact carriers                | Plastic, TPU, Black                                       |
| Connector body                  | Plastic, TPU, Black                                       |
| Coupling nut                    | Brass, CuZn, Nickel-plated                                |
| Connector seal                  | O-ring, Plastic, FKM/FPM                                  |
| 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              | 5                                                         |
| Contacts                        | Bronze, CuZn, Gold-plated                                 |
| Contact carriers                | Plastic, TPU, Black                                       |
| Connector body                  | Plastic, TPU, Black                                       |
| Coupling nut                    | Brass, CuZn, Nickel-plated                                |
| Tightening torque               | 0.4 ... 1.8 Nm                                            |

### Features



- M12, Female, Straight, 5-pin
- M12, Male, Straight, 5-pin
- Instrumentation Tray Cable
- Black PVC 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 length: 1 m

### Cable cross section



## Technical data

|                                 |                                         |
|---------------------------------|-----------------------------------------|
|                                 | (note max. torque of mating connector!) |
| Mechanical lifespan             | > 100 Mating cycles                     |
| Pollution degree                | 3                                       |
| Protection class (When coupled) | IP67, IP68, IP69, IP69K                 |
|                                 | NEMA: 1, 3, 4, 6P, 12                   |

### Cable data

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Cable ID                      | RF50982                                                |
| Total number of conductors    | 5                                                      |
| Cable diameter                | Ø 5.69 mm                                              |
| Cable length (L)              | 1 m (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                  | PVC, Black                                             |
| Conductor diameter            | 0.054 "                                                |
| Conductor material            | TC (tinned copper)                                     |
| Conductor insulation material | PVC                                                    |
| Conductor size                | 5 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, GY                                     |

### 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                                                                             |
| 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 °C...+105 °C                                                                     |
| Ambient temperature range (dynamic) | -40 °C...+105 °C                                                                     |
| Temperature range (installation)    | -20 °C...+105 °C                                                                     |

### Approval

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

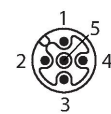
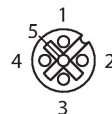
### Note

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

## Contact assignment

Connector A

Connector B



## Cable cross-section view

## Circuit Diagram



Technical data

certain 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.

Accessories

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.

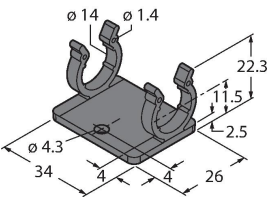
TORQUE-WRENCH-SET-M12 A900152



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.

Accessories

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.