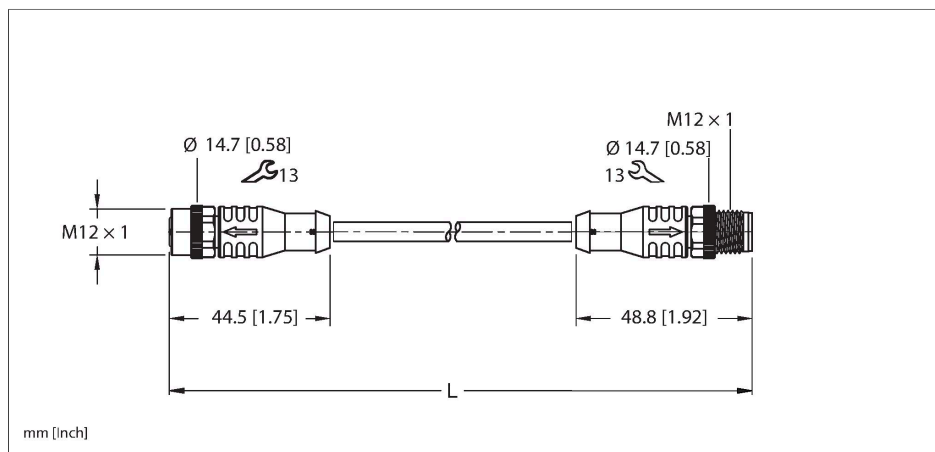


# EKRB-ESRB-A4.300-GC2K-4

## Actuator and Sensor Cable – Extension Cable



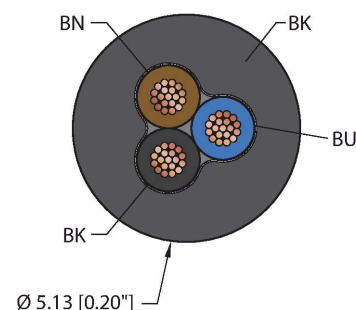
### Technische Daten

|                                 |                                                           |
|---------------------------------|-----------------------------------------------------------|
| Type                            | EKRB-ESRB-A4.300-GC2K-4                                   |
| ID                              | 100033638                                                 |
| Replaces                        | RK 4T-x-RS 4T/S760/S771                                   |
| 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                                  |
| 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                                |
| Tightening torque               | 0.4 ... 1.8 Nm                                            |

### Features

- M12, Female, Straight, 3-pin
- M12, Male, Straight, 3-pin
- Instrumentation Tray Cable
- Black PVC jacket, 3X22 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

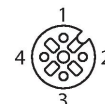


### Contact assignment

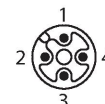
## Technische Daten

|                                           |                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------|
|                                           | (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                                                                |
| <b>Cable data</b>                         |                                                                                      |
| Cable ID                                  | RF52083                                                                              |
| Total number of conductors                | 3                                                                                    |
| Cable diameter                            | Ø 5.13 mm                                                                            |
| Length (L)                                | 4 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                            | 3 x 22 AWG [Similar to 0.34 mm <sup>2</sup> ]                                        |
| Number of strands x O.D.                  | 19 x 0.0058 "                                                                        |
| Conductor colors                          | BN, 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)                  | ≥ 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                                 |

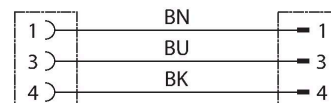
Connector A



Connector B



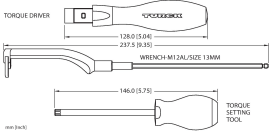
## Circuit Diagram



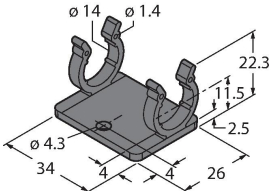
Technische Daten

|      |                                                                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note | <div>- 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.</div> <div>- We reserve the right to make technical alterations without prior notice.</div> |
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Montagezubehör

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>TORQUE-WRENCH-SET-M12/SW13A900152</div><div></div><div>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.</div></div> | <div><div>M12-TORQUE-SLEEVE,YELLOW(10PACK)A900167</div><div></div><div>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.</div></div> |
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Montagezubehör

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>M12-CORDSETS-MOUNTING-CLIP-(10/BAG)100016882</div><div></div><div>10 Pack of black mounting clips and M4x8mm mounting screws, used to secure cable to cable connection points.</div></div> |
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