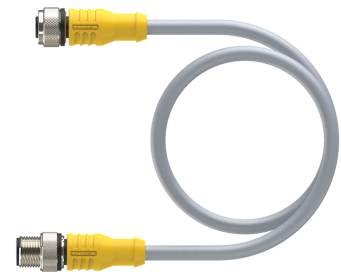


# RKC 8T-0.2-RSC 8T

## Actuator and Sensor Cable – Extension Cable



### Technische Daten

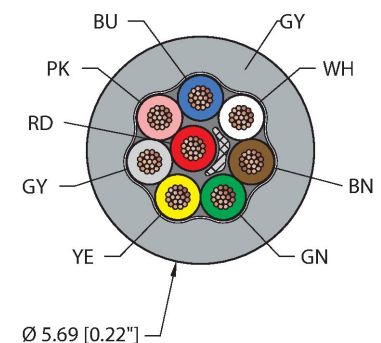
|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Type                            | RKC 8T-0.2-RSC 8T                                       |
| ID                              | U-38789                                                 |
| Connector A                     | Female, M12 × 1, Straight, A-code                       |
| Design specification            | Acc. to IEC 61076-2-101                                 |
| Number of contacts              | 8                                                       |
| 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              | 8                                                       |
| Contacts                        | Brass, CuZn, Gold-plated                                |
| Contact carriers                | Plastic, PA, Black                                      |
| Connector body                  | Plastic, TPU, Yellow                                    |
| Coupling nut                    | Brass, CuZn, Nickel-plated                              |
| Tightening torque               | 0.8 ... 1 Nm<br>(note max. torque of mating connector!) |

### Features



- M12, Female, Straight, 8-pin
- M12, Male, Straight, 8-pin
- IP68, IP69K
- General Purpose Cable
- Gray PVC jacket, 8X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1

### Cable cross section



### Contact assignment

## Technische Daten

|                                 |                     |
|---------------------------------|---------------------|
| Mechanical life                 | > 100 Mating cycles |
| Pollution degree                | 3                   |
| Protection class (When coupled) | IP68, IP69K         |
|                                 | NEMA: 1, 3, 4, 6P   |

### Cable data

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Cable ID                      | RF50753                                       |
| Total number of conductors    | 8                                             |
| Cable diameter                | Ø 5.69 mm                                     |
| Length (L)                    | 0.2 m                                         |
| Cable jacket                  | PVC, Gray                                     |
| Conductor diameter            | 0.044 "                                       |
| Conductor material            | TC (tinned copper)                            |
| Conductor insulation material | PVC                                           |
| Conductor size                | 8 x 24 AWG [Similar to 0.25 mm <sup>2</sup> ] |
| Number of strands x O.D.      | 19 x 36 AWG                                   |
| Conductor colors              | WH, BN, GN, YE, GY, PK, BU, RD                |

### Electrical properties at +20 °C

|               |      |
|---------------|------|
| Rated voltage | 75 V |
| Current       | 2 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, 50%RH, and a cycle speed of ≤0.5 cycles per second. |
| Ambient temperature range (static)  | -40...+105 °C                                                                        |
| Ambient temperature range (dynamic) | 5...+105 °C                                                                          |
| Temperature range (installation)    | -10...+105 °C                                                                        |

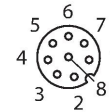
### Approval

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

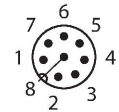
### Note

- 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.

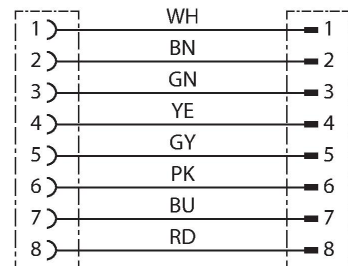
Connector A



Connector B



## Circuit Diagram



Technische Daten

- We reserve the right to make technical alterations without prior notice.

Montagezubehör

TORQUE DRIVER

1/4" DRIVER

TORQUE SETTING TOOL (mm/inch)

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

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.