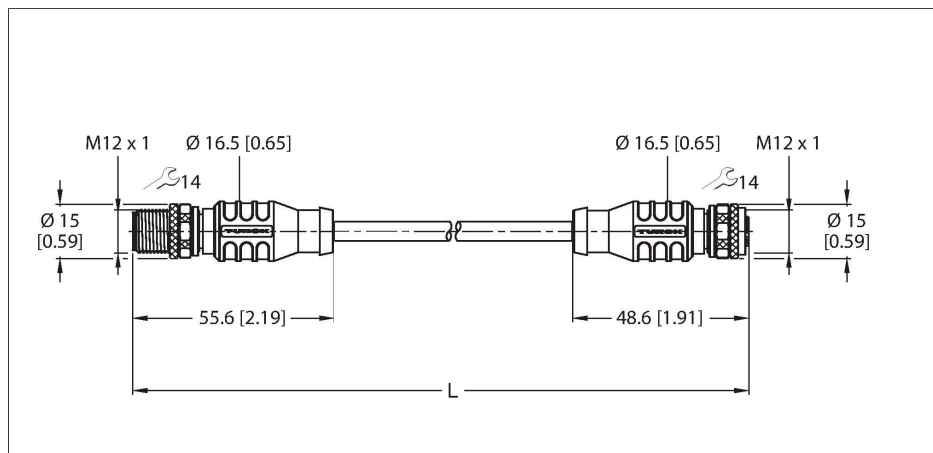


# RSC RKC 572-1M

## – Connection Cable



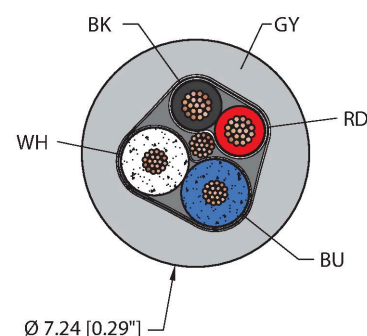
### Technical data

|                              |                                                            |
|------------------------------|------------------------------------------------------------|
| Type                         | RSC RKC 572-1M                                             |
| ID                           | U0321                                                      |
| Connector A                  | Male, M12 × 1, Straight, A-coded                           |
| Number of Pins               | 5                                                          |
| Contacts                     | Metal, CuZn, Gold-plated                                   |
| Contact carriers             | Plastic, TPU, Blue                                         |
| Connector body               | Plastic, TPU, Blue                                         |
| Coupling nut/screw           | Brass, CuZn, Nickel-plated                                 |
| Tightening torque (range)    | 0.8 ... 1 Nm<br>(observe max. torque of mating connector!) |
| Mechanical lifespan          | > 100 Mating cycles                                        |
| Pollution degree             | 3                                                          |
| Protection class             | IP67, Only in screwed condition                            |
| Connector B                  | Female, M12 × 1, Straight, A-coded                         |
| Number of pins               | 5                                                          |
| Contacts                     | Metal, CuZn, Gold-plated                                   |
| Contact carriers             | Plastic, TPU, Blue                                         |
| Connector body               | Plastic, TPU, Blue                                         |
| Coupling nut/retaining screw | Brass, CuZn, Nickel-plated                                 |
| Seal                         | Plastic, FPM/FKM                                           |
| Tightening torque            | 0.8 ... 1 Nm (observe max. torque of mating connector!)    |
| Mechanical life              | > 100 Mating cycles                                        |
| Pollution degree             | 3                                                          |
| Protection class             | IP67, Only when screwed together                           |
|                              | NEMA: 1, 3, 4, 6P                                          |

### Features

- M12 male connector, straight, A-coded
- M12 female connector, straight, A-coded
- Cable length: 1.0 m
- Litzen paarverseilt; geschirmt
- Fieldbus Technology Cable
- Fieldbus type: DeviceNet, PVC jacket, gray, shielded, 2STP × 22 AWG
- UV resistant
- Fire classes: UL 1685 FT4, UL1061, CSA FT4

### Cable Cross-Section



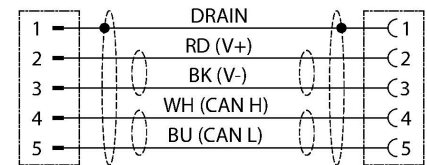
### Contact assignment



## Technical data

| Cable                                    |                                                                                                                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable ID                                 | RF50603                                                                                                                                                                                               |
| Number of cores                          | 4                                                                                                                                                                                                     |
| Cable diameter                           | Ø 7.24 mm                                                                                                                                                                                             |
| Cable length                             | 1 m                                                                                                                                                                                                   |
| Cable jacket                             | PVC, Gray                                                                                                                                                                                             |
| Shielding                                | Foil (IN)                                                                                                                                                                                             |
| Drain wire cross section                 | 22 AWG, TC (tinned copper)                                                                                                                                                                            |
| Conductor material                       | TC (tinned copper)                                                                                                                                                                                    |
| Core colors                              | Power: RD, BK, Data: WH, BU                                                                                                                                                                           |
| Subassembly 1                            |                                                                                                                                                                                                       |
| Description of assembly                  | STP (shielded twisted pair)                                                                                                                                                                           |
| Number of pairs                          | 1                                                                                                                                                                                                     |
| Conductor diameter                       | 0.05 "                                                                                                                                                                                                |
| Core insulation                          | PVC                                                                                                                                                                                                   |
|                                          | Foil (OUT)                                                                                                                                                                                            |
| Core cross-section                       | 2x22 AWG [Similar to 0.34 mm²]                                                                                                                                                                        |
| braid arrangement                        | 19x0.0058 "                                                                                                                                                                                           |
| Description of assembly                  | STP (shielded twisted pair)                                                                                                                                                                           |
| Number of modules                        | 1                                                                                                                                                                                                     |
| Conductor diameter                       | 0.088 "                                                                                                                                                                                               |
| Core insulation                          | Foamed HDPE                                                                                                                                                                                           |
| Assembly Foil                            | Foil (OUT)                                                                                                                                                                                            |
| Core cross-section                       | 2x22 AWG [Similar to 0.34 mm²]                                                                                                                                                                        |
| braid arrangement                        | 19x0.0058                                                                                                                                                                                             |
| Electrical properties at +20 °C          |                                                                                                                                                                                                       |
| Rated voltage                            | 250 V                                                                                                                                                                                                 |
| Current                                  | 4 A                                                                                                                                                                                                   |
| Mechanical and chemical properties       |                                                                                                                                                                                                       |
| Bending radius (stationary installation) | ≥ 5 x Ø                                                                                                                                                                                               |
| Bending radius (flexible use)            | ≥ 15 x Ø                                                                                                                                                                                              |
| Ambient temperature range (stationary)   | -40...+80 °C                                                                                                                                                                                          |
| Ambient temperature range (In motion)    | 5...+80 °C                                                                                                                                                                                            |
| Ambient temperature during installation  | -10...+80 °C                                                                                                                                                                                          |
| Approval                                 |                                                                                                                                                                                                       |
| Note                                     | Using the cable in extreme temperatures, when it is exposed to certain chemicals and above the nominal cycle speed or below the nominal bending radius of the cable can reduce the flexural strength. |

## Circuit Diagram



## Technical data

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

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