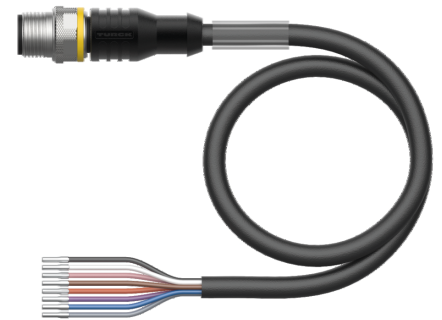
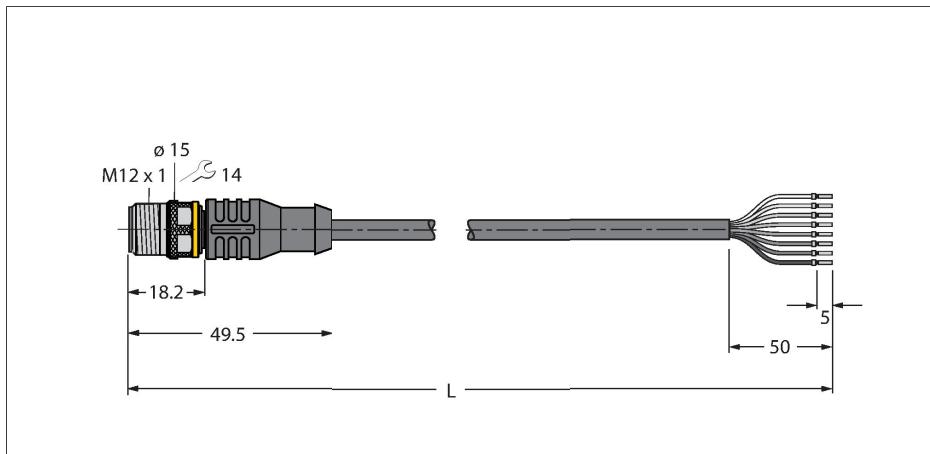


# RSC8T-2/TEL

## Actuator and Sensor Cable, PVC – Connection Cable



### Technical data

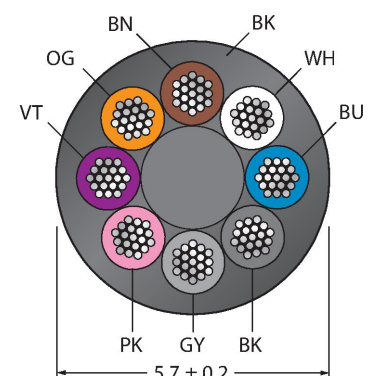
|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Type                                      | RSC8T-2/TEL                            |
| ID                                        | 6625136                                |
| Connector A                               | Male, M12 × 1, Straight, A-coded       |
| Number of pins                            | 8                                      |
| Contacts                                  | Brass, CuZn, Gold-plated               |
| Contact carriers                          | Plastic, TPU, Black                    |
| Connector body                            | Plastic, TPU, Black                    |
| Coupling nut/screw                        | Brass, CuZn, Nickel-plated             |
| Mechanical lifespan                       | > 100 Mating cycles                    |
| Pollution degree                          | 3                                      |
| Protection class                          | IP67, IP69K, Only in screwed condition |
| <b>Cable</b>                              |                                        |
| Cable diameter                            | Ø 5.7 mm ±0.20                         |
| Cable length                              | 2 m                                    |
| Cable jacket                              | PVC, Black                             |
| Core insulation                           | PVC                                    |
| Core cross-section                        | 8 x 0.25 mm <sup>2</sup>               |
| Arrangement of strands                    | 32 x 0.1 mm                            |
| Core colors                               | BN, WH, BU, BK, GY, PK, VT, OG         |
| <b>Electrical properties at +20 °C</b>    |                                        |
| Rated voltage                             | 30 V                                   |
| Test voltage                              | 2000 V                                 |
| Current                                   | 2 A                                    |
| Insulation resistance                     | > 30.5 MΩ/km                           |
| forward resistance                        | max. 79 Ω/km                           |
| <b>Mechanical and chemical properties</b> |                                        |
| Bending radius (stationary installation)  | ≥ 5 x Ø                                |

### Features

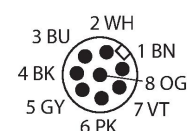


- Male M12, straight, 8-pin
- Jacket material: PVC
- Jacket color: black
- Resistant to chemicals and oils
- Flame retardant
- Resistant to acids and alkaline solutions
- Resistant to microbes and hydrolysis
- LABS free
- Protection class: IP67, IP69K
- Cable length: 2.0 m

### Cable Cross-Section



### Contact assignment



Technical data

|                               |               |
|-------------------------------|---------------|
| Bending radius (flexible use) | ≥ 10 x Ø      |
| Ambient temperature (fixed)   | -40...+105 °C |
| Ambient temperature (mobile)  | -5...+80 °C   |
| Approvals                     | cULus         |

Functional principle

Drawing shows design status including hexagon coupling nut  
(Production start CW11/2016).  
Wiring diagram shows contact assignment acc. to DIN EN 60947-5-2  
(Production start CW16/2017).

Circuit Diagram

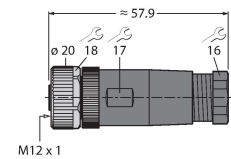
|   |    |
|---|----|
| 1 | BN |
| 2 | WH |
| 3 | BU |
| 4 | BK |
| 5 | GY |
| 6 | PK |
| 7 | VT |
| 8 | OG |

Stranded Wire Colors

| Pin | DIN 47100 (old) | DIN EN 60947-5-2 (new) |
|-----|-----------------|------------------------|
| 1   | WH              | BN                     |
| 2   | BN              | WH                     |
| 3   | GN              | BU                     |
| 4   | YE              | BK                     |
| 5   | GY              | GY                     |
| 6   | PK              | PK                     |
| 7   | BU              | VT                     |
| 8   | RD              | OG                     |

Accessories

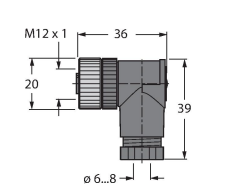
B8181-0 6904605



Technical drawing of the B8181-0 connector. It shows a side view with dimensions: total length ≈ 57.9 mm, thread diameter ø 20, and pin positions 18, 17, and 16. The connector is labeled M12 x 1.

Field-wireable female connector, M12 × 1, straight, 8-pin, screw terminal connection, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.50 mm², plastic housing, metal nut

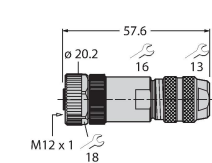
B8281-0 6934339



Technical drawing of the B8281-0 connector. It shows a side view with dimensions: total length 36 mm, thread diameter ø 20, pin positions 20 and 18, and a base diameter ø 6...8. The connector is labeled M12 x 1.

Field-wireable female connector, M12 × 1, angled, 8-pin, screw terminal connection, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.50 mm², plastic housing, metal nut

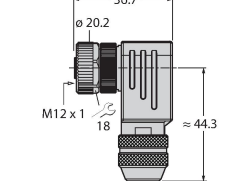
CMB8181-0 6931450



Technical drawing of the CMB8181-0 connector. It shows a side view with dimensions: total length 57.6 mm, thread diameter ø 20.2, and pin positions 16, 13, and 18. The connector is labeled M12 x 1.

Field-wireable female connector, M12 × 1, straight, 8-pin, screw terminal connection, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.50 mm², metal housing, metal nut, shieldable

CMB8281-0 6932024

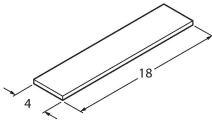


Technical drawing of the CMB8281-0 connector. It shows a side view with dimensions: total length 36.7 mm, thread diameter ø 20.2, pin positions 18 and 16, and a total height ≈ 44.3 mm. The connector is labeled M12 x 1.

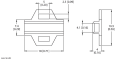
Field-wireable female connector, M12 × 1, angled, 8-pin, screw terminal connection, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.50 mm², metal housing, metal nut, shieldable

|                                                                                                                       |         |
|-----------------------------------------------------------------------------------------------------------------------|---------|
| TORQUE-WRENCH-SET-AS                                                                                                  | 6936170 |
| Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14) |         |

|                                                                                                                                         |         |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------|
| BLANK-LABEL-FOR-CORDSETS-TEL-TXL                                                                                                        | 6936206 |
| Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant |         |



Accessories

| Dimension drawing                                                                 | Type                  | ID        |                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | LABEL-HOLDER-FLEX-PVC | 100048170 | PVC label holder for identification of extension cables (TEL/TXL product series); for cable diameters: min. 5 mm; dimensions 4 × 18 mm; delivery unit: 50 pcs. per package |