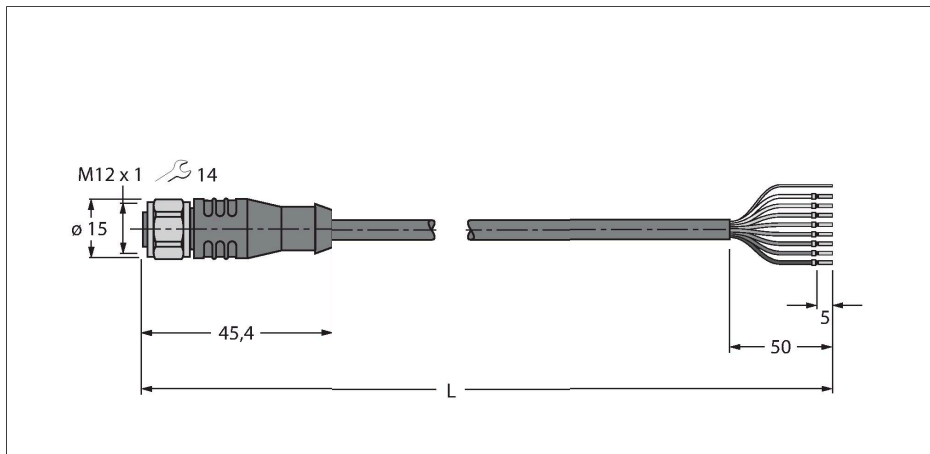


# RKSV8T-20/TEL

## Actuator and Sensor Cable, PVC – Connection Cable



### Features

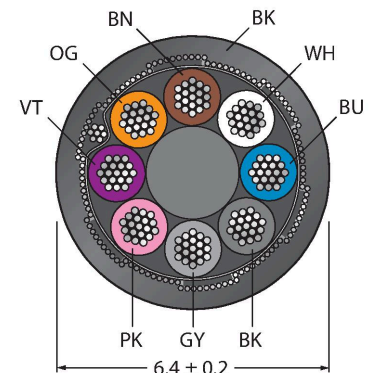


- Female M12, straight, 8-pin
- Stainless steel coupling nut/screw
- Shield on coupling nut/screw
- Jacket material: PVC, shielded
- Jacket color: black
- Resistant to chemicals and oils
- Flame retardant
- Resistant to acids and alkaline solutions
- Resistant to microbes and hydrolysis
- LABS free
- Protection class: IP67, IP69K
- Cable length: 20 m

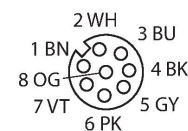
### Technical data

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Type                            | RKSV8T-20/TEL                          |
| ID                              | 6629123                                |
| Connector A                     | Female, 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              | Stainless Steel, V4A                   |
| Seal                            | Plastic, FPM/FKM                       |
| Mechanical lifespan             | > 100 Mating cycles                    |
| Pollution degree                | 3                                      |
| Protection class                | IP67, IP69K, Only in screwed condition |
| Cable                           |                                        |
| Cable diameter                  | Ø 6.4 mm ±0.20                         |
| Cable length                    | 20 m                                   |
| Cable jacket                    | PVC, Black                             |
| Shielding                       | Aluminum foil, tinned copper wire      |
| 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         |
| Electrical properties at +20 °C |                                        |
| Rated voltage                   | 30 V                                   |
| Test voltage                    | 2000 V                                 |
| Current                         | 2 A                                    |
| Insulation resistance           | > 30.5 MΩ/km                           |
| forward resistance              | max. 79 Ω/km                           |

### Cable Cross-Section



### Contact assignment



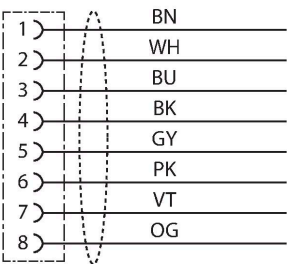
### Functional principle

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).

Technical data

| Mechanical and chemical properties       |               |
|------------------------------------------|---------------|
| Bending radius (stationary installation) | ≥ 5 x Ø       |
| Bending radius (flexible use)            | ≥ 10 x Ø      |
| Ambient temperature (fixed)              | -40...+105 °C |
| Ambient temperature (mobile)             | 0...+80 °C    |
| Approvals                                | cULus         |

Circuit Diagram



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

CMBS8181-06930792

Field-wireable male 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, also for Ethernet

TORQUE-WRENCH-SET-AS6936170

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-TXL6936206

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 |