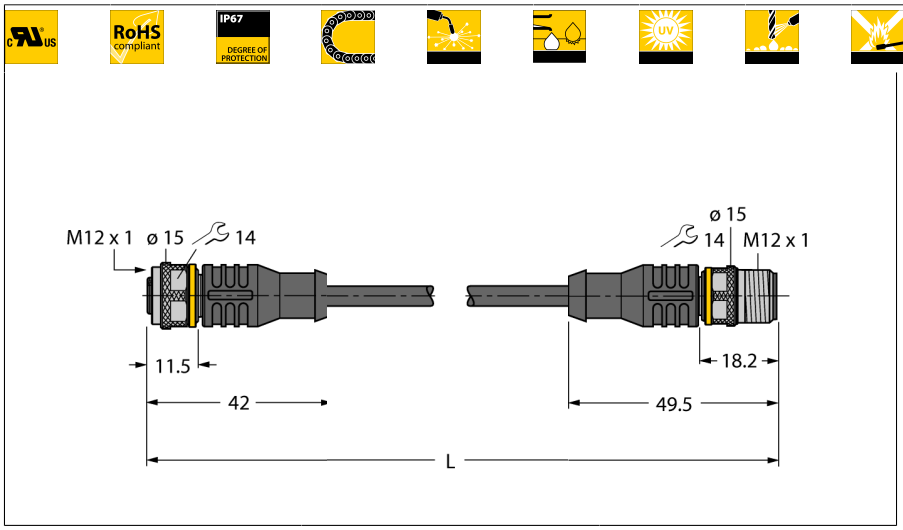
Actuator/sensor cable, PUR extension cable
RKC4.4T-5-RSC4.4T/TXL

Industrial Automation



- **Female M12, straight, 4-pin**
- **Male M12, straight, 4-pin**
- **Sheath material: PUR**
- **Sheath color: black**
- **Qualified for drag chain use**
- **Resistant to weld splatter**
- **Resistant to chemicals, UV radiation and oils**
- **Flame retardant**
- **Free from halogen, silicone, PVC and LABS**
- **Particularly resistant to abrasion**
- **Approval: cULus**
- **RoHS conform**
- **Protection class IP67**
- **Cable length: 5.0 m**

Type designation	RKC4.4T-5-RSC4.4T/TXL
Ident no.	6625731

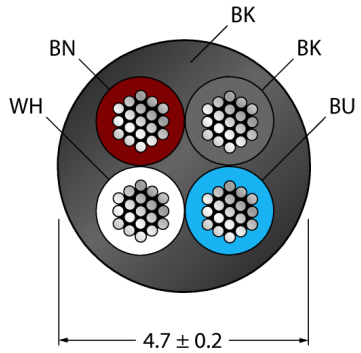
Connector A side	Female connector, M12x1a, Straight
Number of pins	4
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Grip	Plastic, TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Seal	Plastic, FPM/FKM
Protection class	IP67, A + B side screwed together
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Tightening torque	0.8 … 1 Nm (observe max. torque of counter piece!)

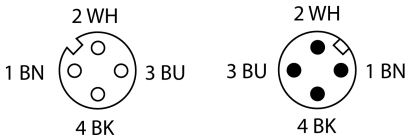
Connector B side	Connector, M12 x 1, Straight
Number of pins	4 pins
Contacts	brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Grip	plastic, TPU, black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Protection class	IP67, only in screwed state
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Tightening torque	0.8 … 1 Nm (observe max. torque of counter piece!)

General data	
Cable diameter	4.7 ± 0.20mm
Cable length	5 m
Cable quality	PUR
Cable color	Black
Core insulation	PP
Core colors	BN, WH, BU, BK
Core cross-section	4x0.34mm²
Arrangement of strands	42x0.1 mm

Electrical features at +20 °C	
Current	4 A
Rated voltage	250 V
Insulation resistance	> 30.5 MΩ/km
Test voltage	2000 V
Forward resistance	max. 57 Ω/km

Cable Cross-section





General information

Drawing depicts design version including hexagon coupling nut

(Production date after CW11/2016).

Circuit Diagram

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Actuator/sensor cable, PUR extension cable
RKC4.4T-5-RSC4.4T/TXL

Mechanical and chemical properties	
Max. tensile strength (static)	≤ 50 N/mm²
Max. tensile strength (dynamic)	≤ 20 N/mm²
Bending cycles	> 5 mil.
Bending radius (stationary laying)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø
Admissible acceleration	max. 5 m/s²
Admissible travel path, horizontal	5 m (at 5 m/s²)
Admissible travel path, vertical	2 m (at 5 m/s²)
Admissible traversing speed	3.3 m/s
Torsional stress	± 180 °/m
Ambient temperature	
Stationary	-50…+80°C
In motion	-25…+80°C
Drag chain operation	-25…+60°C

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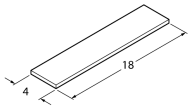
Actuator/sensor cable, PUR extension cable
RKC4.4T-5-RSC4.4T/TXL

Accessories

Type code	Ident no.	Description	
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	

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