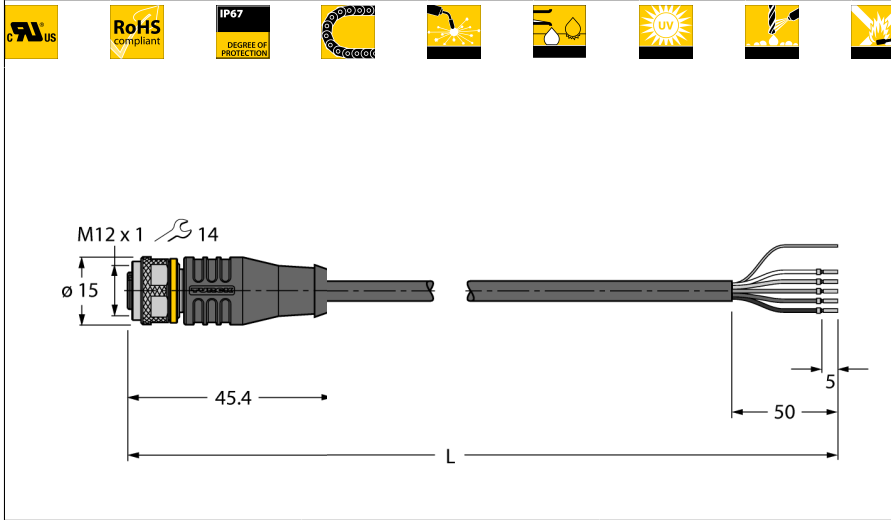


**Actuator/sensor cable, PUR**  
**Connection cable**  
**RKS4.5T-10/TXL**



- Female M12, straight, 5-pin
- Shield on coupling nut/screw
- Sheath material: PUR, shielded
- 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: 10 m

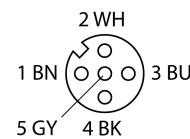
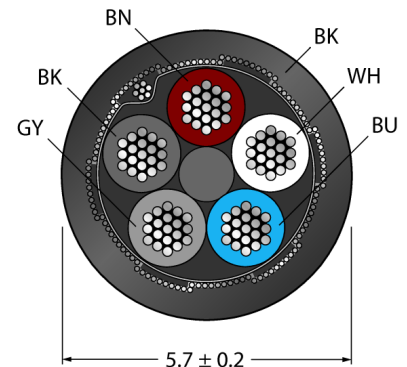
**Type designation** RKS4.5T-10/TXL  
**Ident no.** 6626375

Connector A side	Female connector, M12 ♂ 1, Straight
Number of pins	5
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!)

General data	
Cable diameter	5.7 ± 0.20mm
Cable length	10 m
Cable quality	PUR
Cable color	Black
Core insulation	PP
Core colors	BN, WH, BU, BK, GY
Core cross-section	5x0.34mm <sup>2</sup>
Arrangement of strands	42x0.1 mm
Shielding	Aluminum foil, tinned copper wire

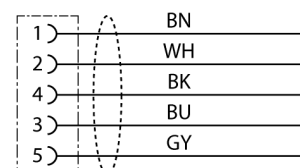
Electrical features at +20 °C	
Current	4 A
Rated voltage	60 V
Insulation resistance	> 30.5 MΩ/km
Test voltage	2000 V
Forward resistance	max. 57 Ω/km

**Cable Cross-section**



Drawing shows design status including hexagon coupling nut  
 (Start of production CW42/2016).

**Circuit Diagram**



**Actuator/sensor cable, PUR**  
**Connection cable**  
**RKS4.5T-10/TXL**

**TURCK**

Industrial  
Automation

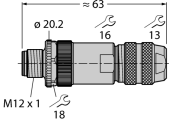
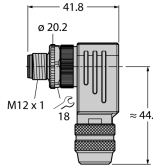

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**Mechanical and chemical properties**

Max. tensile strength (static)	≤ 50 N/mm <sup>2</sup>
Max. tensile strength (dynamic)	≤ 20 N/mm <sup>2</sup>
Bending cycles	> 2 mil.
Bending radius (stationary laying)	> 5 x Ø
Bending radius (flexible use)	> 10 x Ø
Admissible acceleration	max. 5 m/s <sup>2</sup>
Admissible travel path, horizontal	5 m (at 5 m/s <sup>2</sup> )
Admissible travel path, vertical	2 m (at 5 m/s <sup>2</sup> )
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

**Actuator/sensor cable, PUR**  
**Connection cable**  
**RKS4.5T-10/TXL**

**Accessories**

Type code	Ident no.	Description	
CMBS8151-0	6930161	Field-wireable male connector, M12 1, straight, 5-pin, screw terminal connection, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , metal housing, metal nut, shieldable	
CMBS8251-0	6930216	Field-wireable male connector, M12 1, angled, 5-pin, screw terminal connection, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , 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	