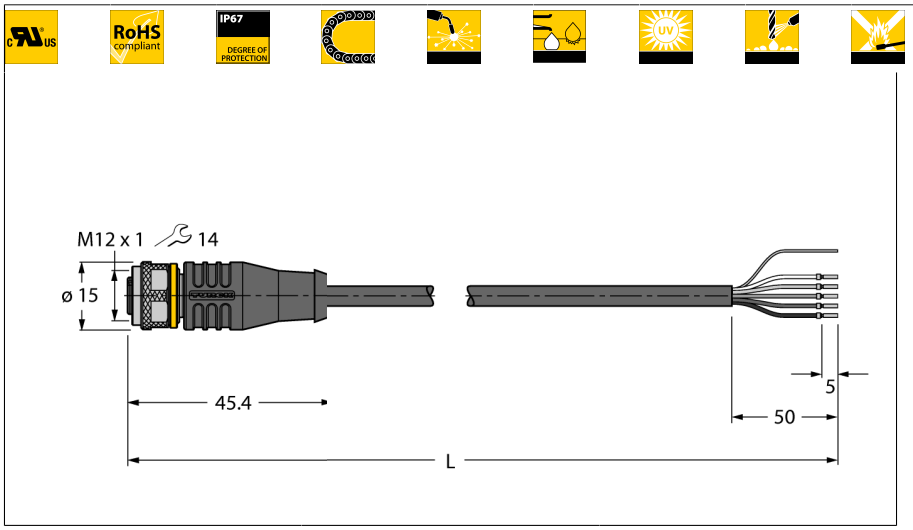
Actuator and Sensor Cable, PUR
Connection Cable
RKS4.5T-2/TXL



- **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: 2.0 m**

Type designation	RKS4.5T-2/TXL
Ident no.	6626373

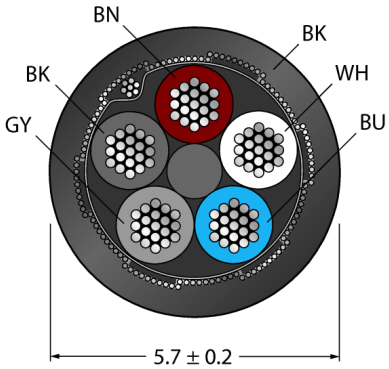
Connector A	Female, M12×1, Straight
Number of pins	5
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Seal	Plastic, FPM/FKM
Protection class	IP67, A + B side screwed together
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Tightening torque	0.8 … 1 Nm
	(observe max. torque of mating connector!)

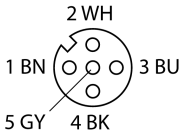
General data	
Cable diameter	5.7 ± 0.20mm
Cable length	2 m
Cable quality	PUR
Cable color	Black
Conductor insulation	PP
Conductor colors	BN, WH, BU, BK, GY
Core cross-section	5x0.34
Arrangement of strands	42x0.1
Shielding	Aluminum foil, tinned copper wire

Electrical properties 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

Mechanical and chemical properties	
Bending cycles	> 2 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

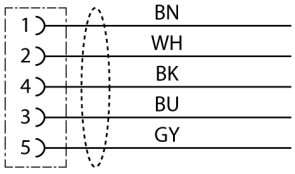
Cable Cross-section





Drawing shows design status including hexagon coupling nut
(Production start CW11/2016).

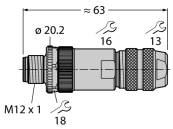
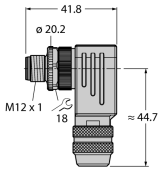
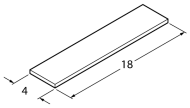
Circuit Diagram



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Actuator and Sensor Cable, PUR
Connection Cable
RKS4.5T-2/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 mm², 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 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	

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