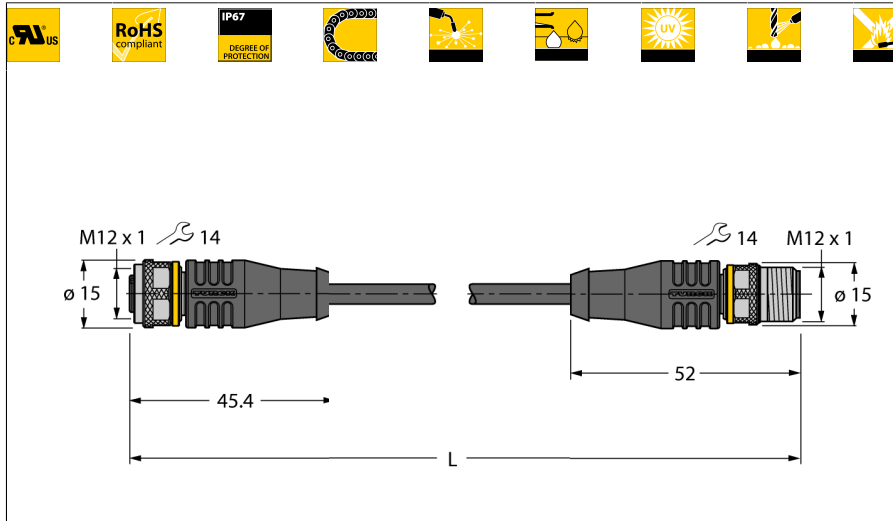


**Actuator/sensor cable, PUR extension cable**  
**RKS8T-2-RSS8T/TXL**



- Female M12, straight, 8-pin
- Shield on coupling nut/screw
- Male M12, straight, 8-pin
- 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

<b>Type designation</b>	RKS8T-2-RSS8T/TXL
Ident no.	6625481

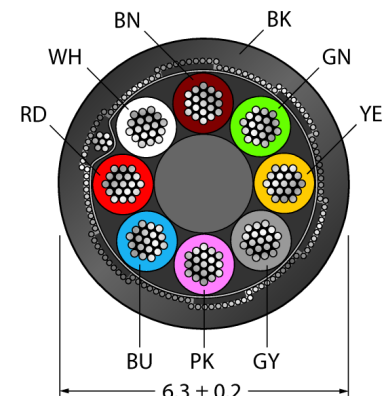
<b>Connector A side</b>	Female connector, M12 ♂ 1, Straight
Number of pins	8
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Grip	Plastic, TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Seal	Plastic, FPM/FKM
Protection class	IP67, A + B side screwed together
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Tightening torque	0.8 ... 1 Nm (observe max. torque of counter piece!)

<b>Connector B side</b>	Connector, M12 x 1, Straight
Number of pins	8 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!)

<b>General data</b>	
Cable diameter	6.3 ± 0.20mm
Cable length	2 m
Cable quality	PUR
Cable color	Black
Core insulation	PP
Core colors	WH, BN, GN, YE, GY, PK, BU, RD
Core cross-section	8x0.25mm <sup>2</sup>
Arrangement of strands	32x0.1 mm
Shielding	Aluminum foil, tinned copper wire

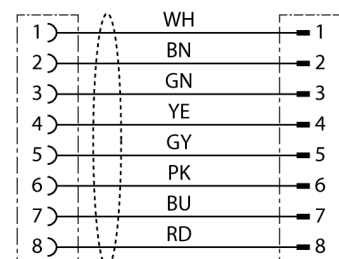
<b>Electrical features at +20 °C</b>	
Current	2 A
Rated voltage	30 V
Insulation resistance	> 30.5 MΩ/km
Test voltage	2000 V
Forward resistance	max. 79 Ω/km

**Cable Cross-section**



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

**Circuit Diagram**



**Actuator/sensor cable, PUR  
extension cable  
RKS8T-2-RSS8T/TXL**

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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  
extension cable  
RKS8T-2-RSS8T/TXL**

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**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-CORDESETS-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	