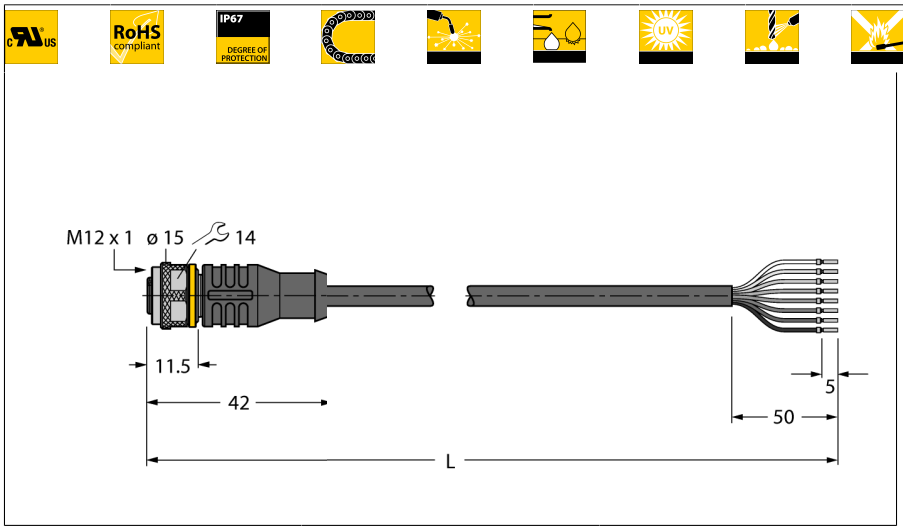
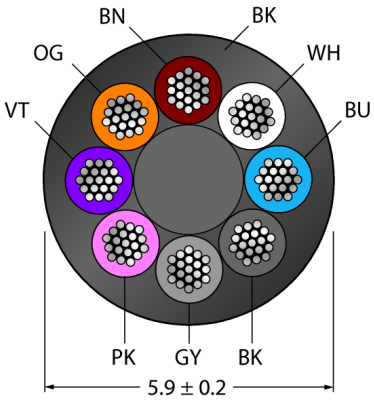
Actuator and Sensor Cable, PUR
Connection Cable
RKC8T-2/TXL

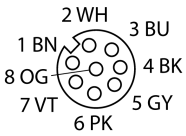


- **Female M12, straight, 8-pin**
- **Sheath material: PUR**
- **Sheath color: black**
- **Qualified for drag chain use**
- **Resistant to weld splatter**
- **Resistant to chemicals, UV radiation and oils**
- **Flame retardant**
- **Free from halogen, silicone, PVC and LABS**
- **Particularly resistant to abrasion**
- **Approval: cULus**
- **RoHS conform**
- **Protection class IP67**
- **Cable length: 2.0 m**

Type designation	RKC8T-2/TXL
Ident no.	6625142
Remark to product	Stranded wire colors and figure may differ.
Connector A	Female, M12×1, Straight
Number of pins	8
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	5.9 ± 0.20mm
Cable length	2 m
Cable quality	PUR
Cable color	Black
Conductor insulation	PP
Conductor colors	BN, WH, BU, BK, GY, PK, VT, OG
Core cross-section	8x0.25
Arrangement of strands	32x0.1
Electrical properties at +20 °C	
Current	2 A
Rated voltage	30 V
Insulation resistance	> 30.5 MΩ/km
Test voltage	2000 V
Forward resistance	max. 79 Ω/km
Mechanical and chemical properties	
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

Cable Cross-section





General information

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).

Circuit Diagram

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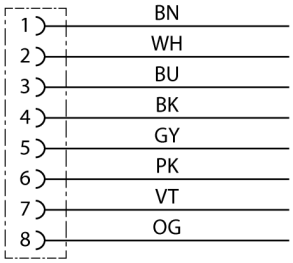

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Actuator and Sensor Cable, PUR
Connection Cable
RKC8T-2/TXL

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

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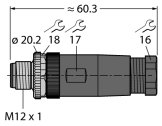
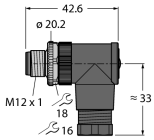
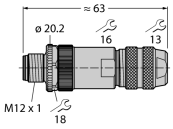
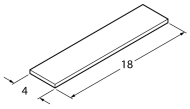
Hans Turck GmbH & Co.KG ● D-45472 Mülheim an der Ruhr ● Witzlebenstraße 7 ● Tel. 0208 4952-0 ● Fax 0208 4952-264 ● more@turck.com ● www.turck.com

Accessories

Type code	Ident no.	Description	
BS8181-0	6901004	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, plastic housing, metal nut	
BS8281-0	6930862	Field-wireable male connector, M12 × 1, angled, 8-pin, screw terminal connection, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.50 mm², plastic housing, metal nut	
CMBS8181-0	6930792	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-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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