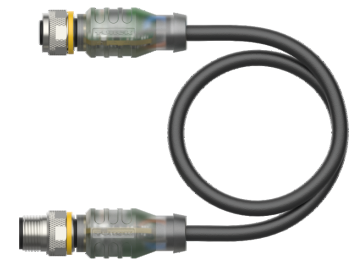
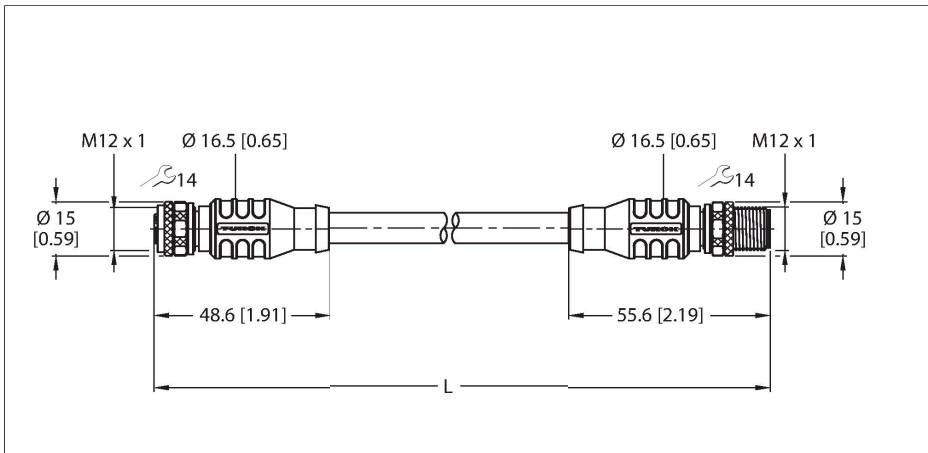


RKE4.4T-5-RSE4.4T/TXP

Actuator and Sensor Cable, PUR – Extension Cable With Measuring Function for Voltage and Current



Technical data

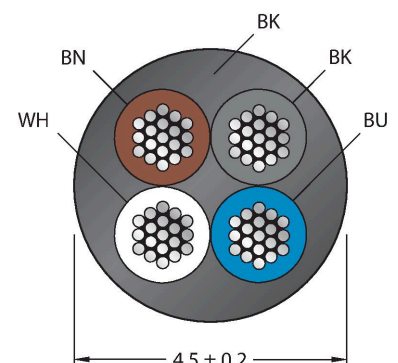
Type	RKE4.4T-5-RSE4.4T/TXP
ID	6700002
Connector A	Female, M12 × 1, Straight, A-coded
Number of pins	4
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Transparent
Coupling nut/screw	Brass, CuZn, Nickel-plated
Seal	Plastic, FPM/FKM
Display operating voltage	LED, Green
Search/warning signal indicator	LED, Red (flashing)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP67, IP69K, Only in screwed condition
Connector B	Male, M12 × 1, Straight, A-coded
Number of Pins	4
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Transparent
Coupling nut/retaining screw	Brass, CuZn, Nickel-plated
Operating voltage	LED, Green
Search/warning signal indicator	LED, Red (flashing)
Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class	IP67, IP69K, Only when screwed together

Features



- M12 female connector, straight, 4-pin
- M12 male connector, straight, 4-pin
- Jacket material: PUR
- Jacket color: black
- Suitable for drag chain use
- Resistant to chemicals and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Resistant to welding sparks
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 5.0 m

Cable Cross-Section



Contact assignment

Technical data

Cable	
Cable diameter	Ø 4.5 mm ±0.20
Cable length	5 m
Cable jacket	PUR, Black
Core insulation	PP
Core cross-section	4 x 0.34 mm ²
Arrangement of strands	42 x 0.1 mm
Core colors	BN, WH, BU, BK
Electrical properties at +20 °C	
Operating voltage U _b	7...30 VDC
Current	4 A
Reverse polarity protection	yes
Short-circuit protection	no
Mechanical and chemical properties	
Bending radius (stationary installation)	≥ 5 x Ø
Bending radius (flexible use)	≥ 10 x Ø
Bending cycles	≥ 5 million
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 m/s ²)
Admissible travel path, vertical	2 m (at 5 m/s ²)
Admissible traversing speed	3.3 m/s
Torsional stress	± 360 °/m
Torsion cycles	Max. 5 million
Torsion speed	20 Cycles/min
Ambient temperature (fixed)	-40...+85 °C
Ambient temperature (mobile)	-40...+70 °C
Ambient temperature (drag chain)	-25...+60 °C
Temperature coefficient of the voltage measurement	± 150 ppm/K
Temperature coefficient of the current measurement	± 150 ppm/K
Relative humidity	10...85 %
Altitude	Max. 2000 m
Shock test	DIN EN 60068-2-27 (02/2010)
Vibration resistance	DIN EN 60068-2-6 (10/2008)
Measuring accuracy at +23 °C	
Accuracy voltage	0.5 %
Temperature coefficient voltage	15 mV/K
Accuracy current	0.5 %
Temperature coefficient current	0.5 mA/K
Other Features	
Data transfer	BLE 2.4 GHz



Circuit Diagram

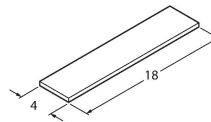


Technical data

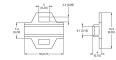
Range	Max. 40 m (indoors) Max. 100 m (outdoors)
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Accessories

TORQUE-WRENCH-SET-AS	6936170	BLANK-LABEL-FOR-CORDSETS-TEL-TXL	6936206
Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14)		Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant	



Accessories

Dimension drawing	Type	ID	
	LABEL-HOLDER-FLEX-PVC	100048170	PVC label holder for identification of extension cables (TEL/TXL product series); for cable diameters: min. 5 mm; dimensions 4 × 18 mm; delivery unit: 50 pcs. per package