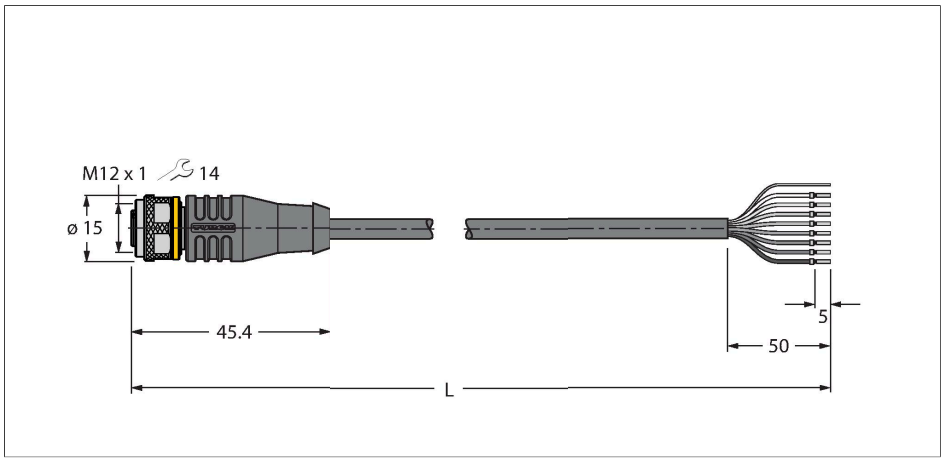
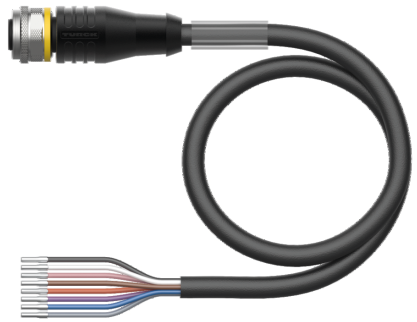
RKS8T-2/TEL
Actuator and Sensor Cable, PVC – Connection Cable





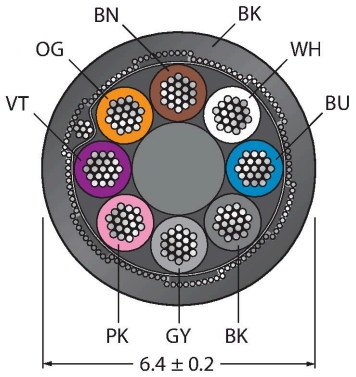
Technical data

Type	RKS8T-2/TEL
ID	6625446
Remark to product	Stranded wire colors and figure may differ.
Connector A	Female, M12 × 1, Straight, A-coded
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
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP67, IP69K, Only in screwed condition
Cable	
Cable diameter	Ø 6.4 mm ±0.20
Cable length	2 m
Cable jacket	PVC, Black
Shielding	Aluminum foil, tinned copper wire
Core insulation	PVC
Core cross-section	8 x 0.25 mm²
Arrangement of strands	32 x 0.1 mm
Core colors	BN, WH, BU, BK, GY, PK, VT, OG
Electrical properties at +20 °C	
Rated voltage	30 V
Test voltage	2000 V
Current	2 A
Insulation resistance	> 30.5 MΩ/km

Features

- Female M12, straight, 8-pin
- Shield on coupling nut/screw
- Jacket material: PVC, shielded
- Jacket color: black
- Resistant to chemicals and oils
- Flame retardant
- Resistant to acids and alkaline solutions
- Resistant to microbes and hydrolysis
- LABS free
- Protection class: IP67, IP69K
- Cable length: 2.0 m

Cable Cross-Section

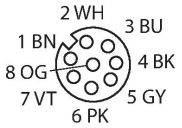


Contact assignment

RKS8T-2/TEL | 23-02-2025 11-30 | Technical modifications reserved

Technical data

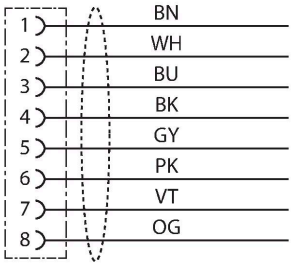
forward resistance	max. 79 Ω/km
Mechanical and chemical properties	
Bending radius (stationary installation)	≥ 5 x Ø
Bending radius (flexible use)	≥ 10 x Ø
Ambient temperature (fixed)	-40…+105 °C
Ambient temperature (mobile)	0…+80 °C
Approvals	cULus



Functional principle

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

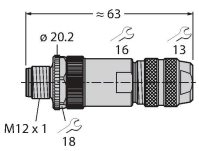


Stranded Wire Colors

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

Accessories

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)

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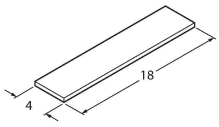
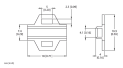
BLANK-LABEL-FOR-CORDSETS-TEL-TXL	6936206

Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant



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

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