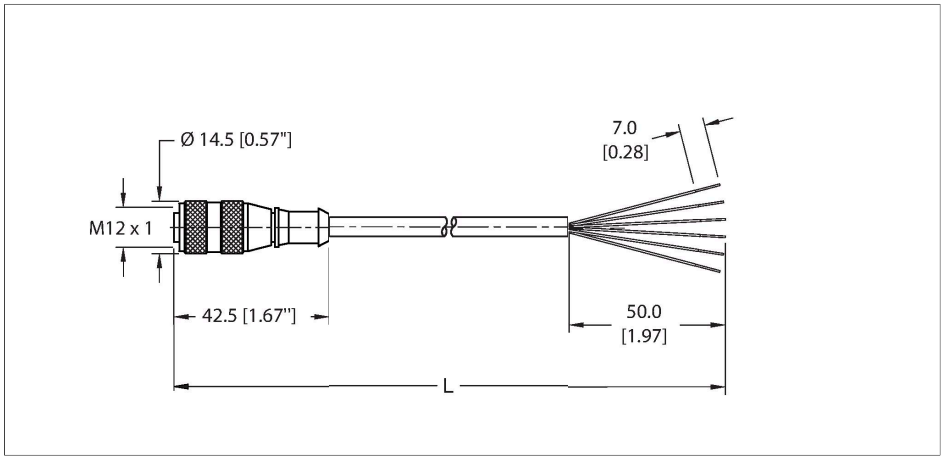
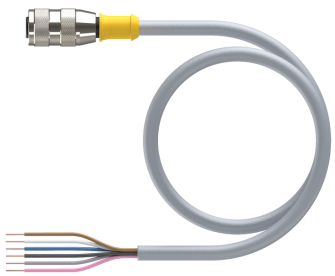
RK 4.6T-10
Actuator and Sensor Cable – Connection Cable





Technical data

Type	RK 4.6T-10
ID	U0176-83
Connector A	Female, M12 × 1, Straight, A-code
Design specification	Acc. to IEC 61076-2-101
Number of contacts	6
Contacts	Bronze, CuSn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Yellow
Coupling nut	Brass, CuZn, Nickel-plated
Connector seal	O-ring, Plastic, FKM/FPM
Tightening torque (range)	0.8 … 1 Nm (note max. torque of mating connector!)
Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class (When coupled)	IP68, IP69K
	NEMA: 1, 3, 4, 6P
Cable data	
Cable ID	RF50608
Total number of conductors	6
Cable diameter	Ø 5.13 mm
Length (L)	10 m, (+50mm or 4% of length/-0.0, Whichever is greater)
Cable jacket	PVC, Gray
Conductor diameter	0.044 "
Conductor material	TC (tinned copper)

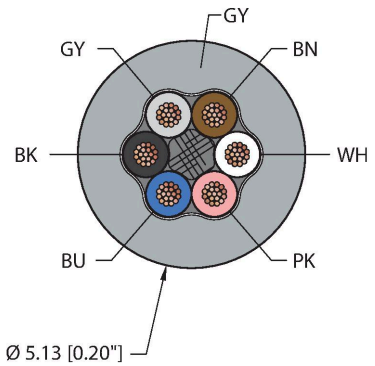
Features

RoHS compliant

IP67/IP68 IP69/IP69K DEGREE OF PROTECTION

- M12, Female, Straight, 6-pin
- General Purpose Cable
- Gray PVC jacket, 6X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1
- Flexlife® and C-Track Approved

Cable cross section

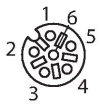


Contact assignment

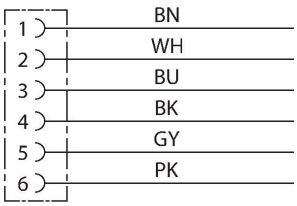
Technical data

Conductor insulation material	PVC
Conductor size	6 x 24 AWG [Similar to 0.25 mm²]
Number of strands x O.D.	19 x 36 AWG
Conductor colors	BN, WH, BU, BK, GY, PK
Electrical properties at +20 °C	
Rated voltage	75 V
Current	4 A
Mechanical and chemical properties	
Bending radius (static)	≥ 5 x Ø
Bending radius (dynamic)	≥ 10 x Ø
UL cold bend rating	-40 °C
Flex rating 20 x Ø	10 million cycles*
	*When properly installed @ 20°C, 50%RH, and a cycle speed of ≤0.5 cycles per second.
C-Track	Yes
Ambient temperature range (static)	-40…+105 °C
Ambient temperature range (dynamic)	5…+105 °C
Temperature range (installation)	-10…+105 °C
Approval	
Approvals	RoHS
Note	
	- Flex ratings may be reduced if used in extreme temperatures, exposure to certain chemicals, operating above the rated cycle speed, or operating below the rated cable bend radius.
	- We reserve the right to make technical alterations without prior notice.

Connector A

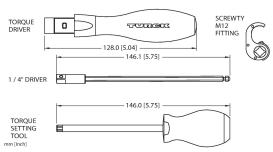


Circuit Diagram



Accessories

TORQUE-WRENCH-SET-M12-LEGACY	A900153



Adjustable torque driver to connect to a Ø15mm knurl. Compatible with the redesigned and legacy M12 cordsets. Includes (1) adjustable torque driver, (1) adjustment tool, (1) 1/4"square to 4mm hex adaptor bit, and (1) Ø15mm spring loaded clamp bit

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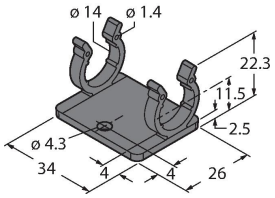
Accessories

M12-CORDSETS-MOUNTING-CLIP-(10/BAG)	100016882



10 Pack of black mounting clips and M4x8mm mounting screws, used to secure cable to cable connection points.

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