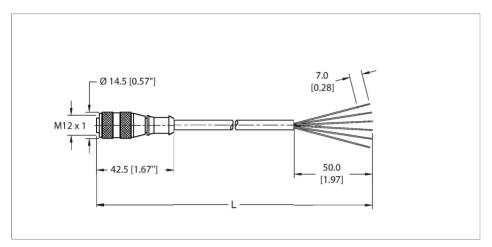


# RK 4.6T-2 Actuator and Sensor Cordset – Connection Cable





### Technical data

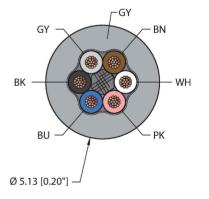
ID U0177  Connector A Female, M12 × 1, Straight, A-code  Design specification Acc. to IEC 61076-2-101  Number of contacts 6  Contacts Bronze, CuSn, Gold-plated  Contact carriers Plastic, TPU, Black  Connector body Plastic, TPU, Yellow  Coupling nut Brass, CuZn, Nickel-plated  Connector seal O-ring, Plastic, 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) 2 m, (+50mm or 4% of length/-0.0, Whichever is greater)  Cable jacket PVC, Gray  Conductor diameter 0.044 "  Conductor material TC (tinned copper)	Туре	RK 4.6T-2
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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)  Mechanical life  > 100 Mating cycles  Pollution degree  3  Protection class (When coupled)  Ple8, IP69K  NEMA: 1, 3, 4, 6P  Cable data  Cable ID  RF50608  Total number of conductors  Cable diameter  Description of the second of the se	Number of contacts	6
Connector body 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) 2 m, (+50mm or 4% of length/-0.0, Whichever is greater) Cable jacket PVC, Gray Conductor diameter	Contacts	Bronze, CuSn, Gold-plated
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Whichever is greater)  Cable jacket PVC, Gray  Conductor diameter 0.044 "	Cable diameter	Ø 5.13 mm
Conductor diameter 0.044 "	Length (L)	
	Cable jacket	PVC, Gray
Conductor material TC (tinned copper)	Conductor diameter	0.044 "
	Conductor material	TC (tinned copper)

### **Features**



- ■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 mm <sup>2</sup> ]
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	
	<ul> <li>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.</li> </ul>
	- We reserve the right to make technical alterations without prior notice.

#### Connector A



## Circuit Diagram

$\lceil 1 \rceil \rceil$	BN
2	WH
2	BU
	ВК
¦ 4 ) <del>-  </del>   5 )	GY
3	PK

### Accessories

### TORQUE-WRENCH-SET-M12-LEGACY

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

A900153

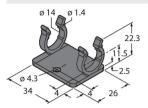
loaded clamp bit



### 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.