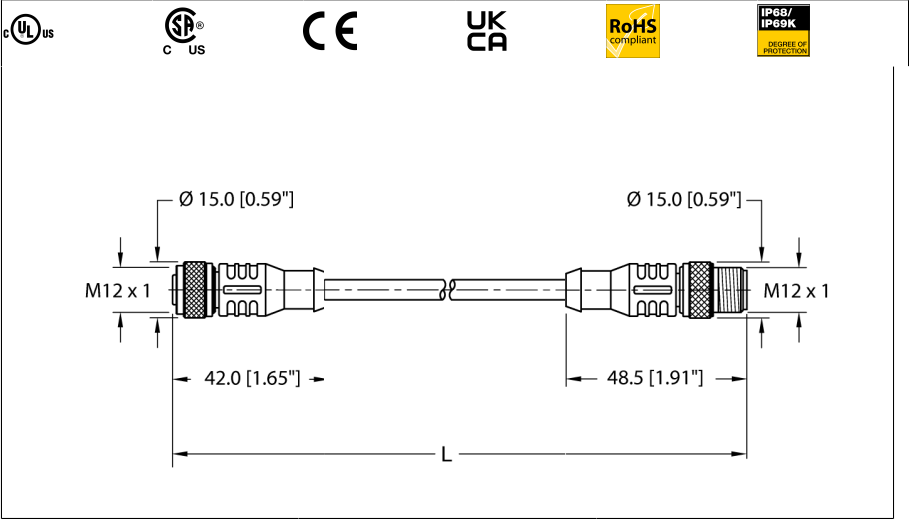


Actuator and Sensor Cable
Verbindungsleitung
RKC 4.5T-30-RSC 4.5T/S101/CS10288



- M12 female connector, straight, 5-pin
- M12 male connector, straight, 5-pin
- Flexlife cable
- TPE jacket, yellow, 5 × 18 AWG
- -40 °C cold bending strength
- Fire classes: UL1061, CSA FT1
- Flexlife and C-Track approved

Type	RKC 4.5T-30-RSC 4.5T/S101/CS10288
ID	U-86811
Connector A	Female, M12 × 1, Straight, A-coded
Design specification	acc. to IEC 61076-2-101
Number of pins	5
Contact carriers	Plastic, Nylon or TPU, Black
Connector body	Plastic, TPU, Yellow
Coupling nut/screw	Brass, CuZn, Nickel-plated
Seal	O ring, Plastic, FKM/FPM
Tightening torque (range)	0.8 ... 1 Nm (observe max. torque of mating connector!)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP68, IP69K
	NEMA: 1, 3, 4, 6P
Connector B	Male, M12 × 1, Straight, A-coded
Design specification	acc. to IEC 61076-2-101
Number of Pins	5
Contact carriers	Plastic, Nylon or TPU, Yellow
Connector body	Plastic, TPU, Yellow
Coupling nut/retaining screw	Brass, CuZn, Nickel-plated
Tightening torque	0.8 ... 1 Nm (Observe max. value of counterpart!)
Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class	IP68, IP69K
	NEMA: 1, 3, 4, 6P
Cable	



Circuit Diagram



Cable ID	RF51174
Number of cores	5
Cable diameter	Ø 6.73mm
Cable length	30 m m
Cable jacket	TPE, Yellow
Conductor diameter	0.066 "
Conductor material	TC (tinned copper)
Core insulation	TPC-ET
Core cross-section	5 x 18 AWG [Similar to 0.75 mm²]
Arrangement of strands	65 x 36AWG
Core colors	BK, BU, GN/YE, BN, WH

Electrical properties at +20 °C

Rated voltage	250V
Current	4AA

Mechanical and chemical properties

Bending radius (stationary installation)	≥ 5 x Ø
Bending radius (flexible use)	≥ 10 x Ø
Torsion cycles	Max. 20 million
Cold flexural strength	-40 °C
Bending cycles 10 x Ø	20 million cycles
	When correctly installed at 20 °C, 50 % RH and a cycle speed of ≤ 0.5 cycles per second.
C-track	Yes
Ambient temperature (fixed)	-40...+105°C
Ambient temperature (mobile)	5...+105°C
Ambient temperature during installation	-10...+105 °C

Approval

Note

Using the cable in extreme temperatures, when it is exposed to certain chemicals and above the nominal cycle speed or below the nominal bending radius of the cable can reduce the flexural strength.

- We reserve the right to make technical modifications without prior notice.