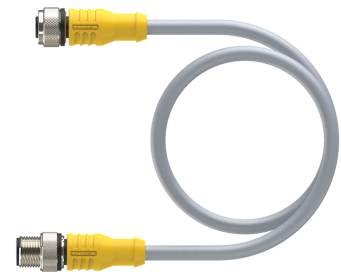


RKC 8T-12-RSC 8T

Actuator and Sensor Cable – Extension Cable



Technische Daten

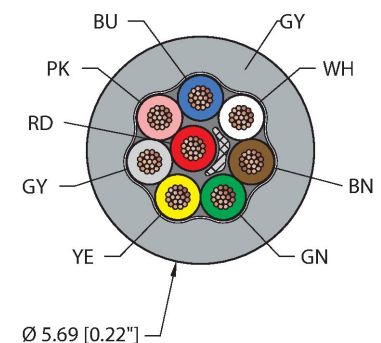
Type	RKC 8T-12-RSC 8T
ID	U-00356
Connector A	Female, M12 × 1, Straight, A-code
Design specification	Acc. to IEC 61076-2-101
Number of contacts	8
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, Nylon or TPU, Black
Connector body	Plastic, TPU, Yellow
Coupling nut	Brass, CuZn, Nickel-plated
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
Connector B	Male, M12 × 1, Straight, A-code
Design specification	Acc. to IEC 61076-2-101
Number of contacts	8
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA, Black
Connector body	Plastic, TPU, Yellow
Coupling nut	Brass, CuZn, Nickel-plated
Tightening torque	0.8 ... 1 Nm (note max. torque of mating connector!)

Features



- M12, Female, Straight, 8-pin
- M12, Male, Straight, 8-pin
- IP68, IP69K
- General Purpose Cable
- Gray PVC jacket, 8X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1

Cable cross section



Contact assignment

Technische Daten

Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class (When coupled)	IP68, IP69K
	NEMA: 1, 3, 4, 6P

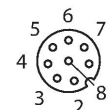
Cable data	
Cable ID	RF50753
Total number of conductors	8
Cable diameter	Ø 5.69 mm
Length (L)	12 m
Cable jacket	PVC, Gray
Conductor diameter	0.044 "
Conductor material	TC (tinned copper)
Conductor insulation material	PVC
Conductor size	8 x 24 AWG [Similar to 0.25 mm ²]
Number of strands x O.D.	19 x 36 AWG
Conductor colors	WH, BN, GN, YE, GY, PK, BU, RD

Electrical properties at +20 °C	
Rated voltage	75 V
Current	2 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.
Ambient temperature range (static)	-40...+105 °C
Ambient temperature range (dynamic)	5...+105 °C
Temperature range (installation)	-10...+105 °C

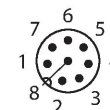
Approval	
Approvals	UL 2238 CSA C22.2 No. 182.3 CE UKCA RoHS

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.

Connector A



Connector B



Circuit Diagram

