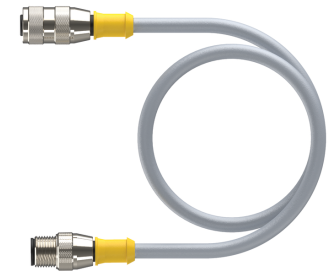
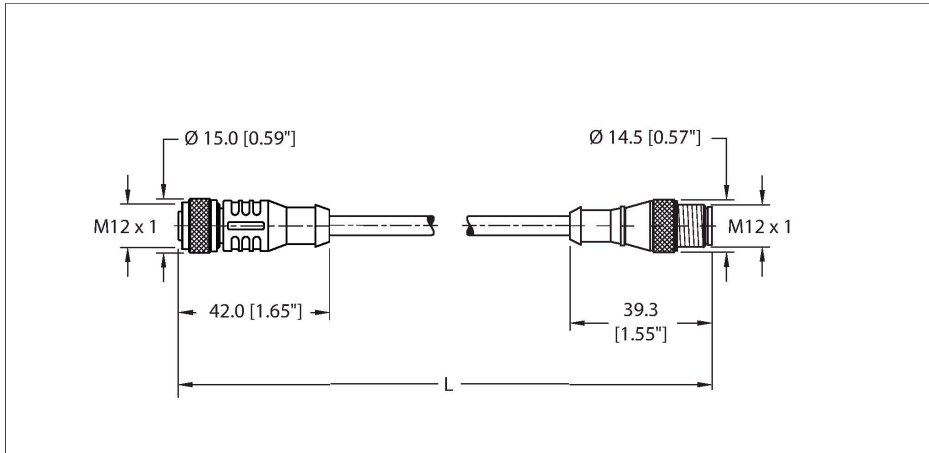


# RK 4.5T-x-RS 4.5T/S653

## Actuator and Sensor Cordset – Extension Cable



### Technical data

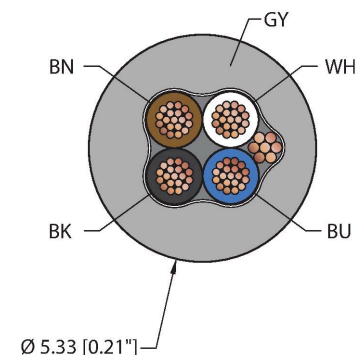
Type	RK 4.5T-x-RS 4.5T/S653
ID	777000948
<b>Connector A</b>	Female, M12 × 1, Straight, A-code
Design specification	Acc. to IEC 61076-2-101
Number of contacts	5
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Yellow
Coupling nut	Brass, CuZn, Nickel-plated
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
<b>Connector B</b>	Male, M12 × 1, Straight, A-code
Design specification	Acc. to IEC 61076-2-101
Number of contacts	5
Contacts	Bronze, CuZn, Gold-plated
Contact carriers	Plastic, Nylon or TPU, Yellow
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, 5-pin
- M12, Male, Straight, 5-pin
- IP68, IP69K
- Instrumentation Tray Cable
- Gray PVC jacket, shielded, 4X22 AWG
- Sunlight Resistant
- -40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL 1685 FT4, UL1061, CSA FT4

### Cable cross section



### Contact assignment

## Technical data

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

Cable data	
Cable ID	RF50577
Total number of conductors	4
Cable diameter	Ø 5.33 mm
Cable jacket	PVC, Gray
Shield	Aluminum/polyester (IN)
Cable drain	24 AWG, TC (Tinned Copper)
Conductor diameter	0.054 "
Conductor material	TC (tinned copper)
Conductor insulation material	PVC
Conductor size	4 x 22 AWG [Similar to 0.34 mm <sup>2</sup> ]
Number of strands x O.D.	19 x 0.0058 "
Conductor colors	BN, WH, BU, BK

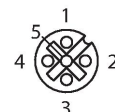
Electrical properties at +20 °C	
Rated voltage	250 V
Current	4 A

Mechanical and chemical properties	
Bending radius (static)	≥ 5 x Ø
Bending radius (dynamic)	≥ 15 x Ø
UL cold bend rating	-40 °C
Ambient temperature range (static)	-40 °C...+105 °C
Ambient temperature range (dynamic)	5 °C...+105 °C
Temperature range (installation)	-10 °C...+105 °C

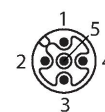
Approval	
Approvals	UL 2238 CSA C22.2 No. 182.3 CE UKCA RoHS

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.

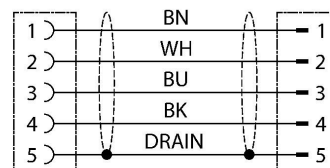
Connector A



Connector B



## Circuit Diagram



## Technical data

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

## Accessories

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

A900153

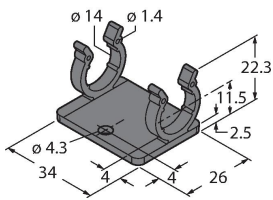


Adjustable torque driver to connect to a  $\varnothing 15\text{mm}$  knurl. Compatible with the redesigned and legacy M12 cordsets. Includes (1) adjustable torque driver, (1) adjustment tool, (1) 1/4"square to 4mm hex adaptor bit, and (1)  $\varnothing 15\text{mm}$  spring loaded clamp bit

## 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.