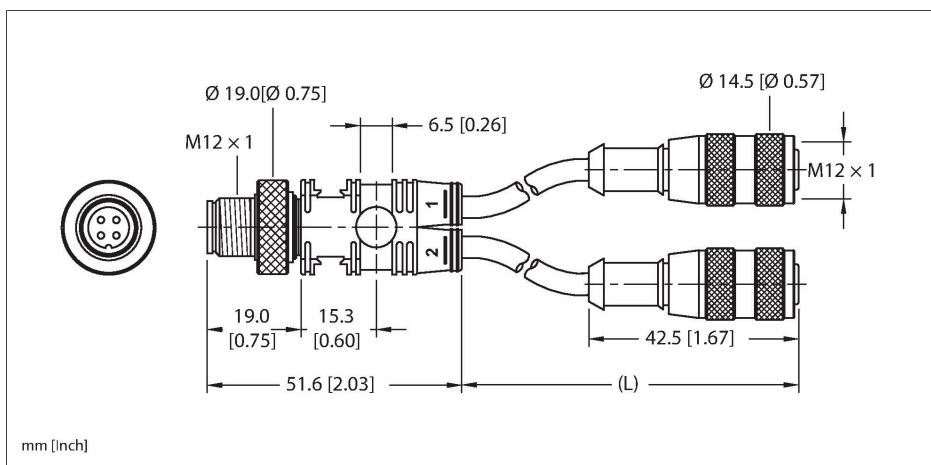


# VBRS 4.4-2RK 4T-\*/\*

## Actuator and Sensor Splitter – M12 Splitter 3-Wire

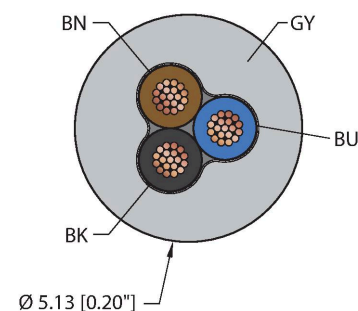


### Features



- Cable on branches
- M12, Male, Straight, 4-pin
- 2x M12, Female, Straight, 3-pin
- Instrumentation Tray Cable
- Gray PVC jacket, 3X22 AWG
- Sunlight Resistant
- -40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL 1685 FT4, UL1061, CSA FT4
- Flexlife® and C-Track Approved

### Cable cross section



### Contact assignment

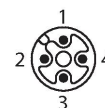
### Technical data

Type	VBRS 4.4-2RK 4T-*/*
ID	777001637
Distributed I/O	Splitter, 2 -port
Housing	Plastic, TPU, Yellow
Connector A	Male, M12 × 1
Number of contacts	4
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, Nylon or TPU, Black
Connector body	Plastic, TPU
Coupling nut	Brass, CuZn, Nickel-plated
Tightening torque (range)	0.8 ... 1 Nm (note max. torque of mating connector!)
Mechanical life	> 100 Mating cycles
Pollution degree	3
Connector B	Female, M12 × 1, Straight
Number of contacts	3
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, Nylon or TPU, Yellow
Connector body	Plastic, TPU
Coupling nut	Brass, CuZn, Nickel-plated
Seal	O-ring, Plastic, FKM/FPM
Tightening torque	0.8 ... 1 Nm
Mechanical life	> 100 Mating cycles

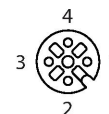
## Technical data

Pollution degree	3
Protection class (When coupled)	IP67
	NEMA: 1, 3, 4, 6P
<b>Cable data</b>	
Cable ID	RF52081
Total number of conductors	3
Cable diameter	Ø 5.13 mm
Cable jacket	PVC, Gray
Conductor diameter	0.054 "
Conductor material	TC (tinned copper)
Conductor insulation material	PVC
Conductor size	3 x 22 AWG [Similar to 0.34 mm <sup>2</sup> ]
Number of strands x O.D.	19 x 0.0058 "
Conductor colors	BN, BU, BK
<b>Electrical properties at +20 °C</b>	
Rated voltage	250 V
Current	4 A
<b>Mechanical and chemical properties</b>	
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
<b>Approval</b>	
Approvals	RoHS
<b>Note</b>	
	- 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



Connector B



## Circuit Diagram

