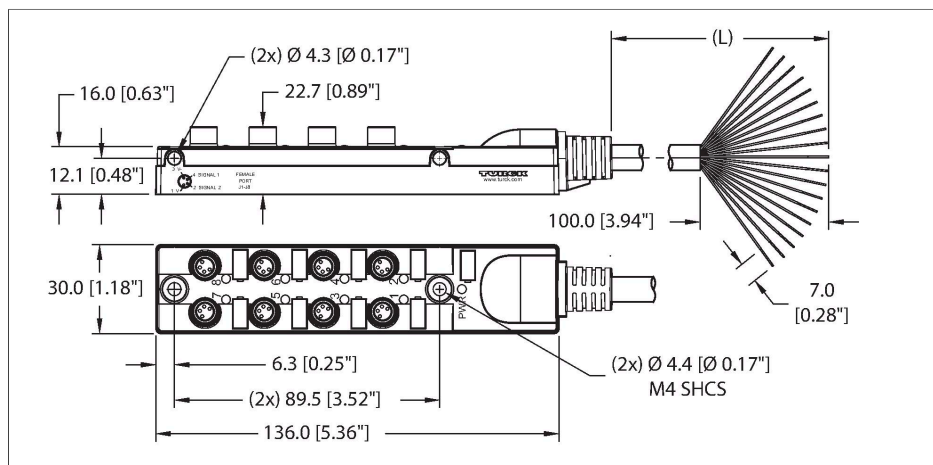


# TB-8M8M-4-5/S101

## Junction Box - Actuator/Sensor, 8-port – Extension Cable



### Technical data

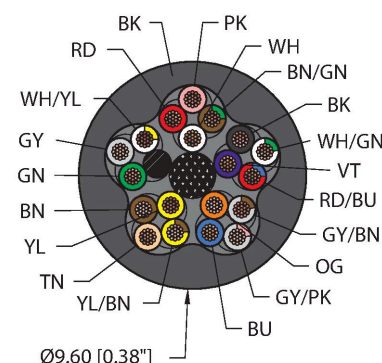
Type	TB-8M8M-4-5/S101
ID	UX13909
Distributed I/O	Junction box, 8, with integral homerun cable
Housing	Plastic, PA 6 GF30, Black
I/O Port	Female, M8 × 1
Design specification	Acc. to IEC 61076-2-104
Number of contacts	4
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA 4.6 GF30, Black
Connector seal	O-ring, Plastic, FKM/FPM
Housing material/finish	Brass, CuZn, Nickel-plated
Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class (When coupled)	IP67, IP68, IP69, IP69K NEMA: 1, 3, 4, 6P, 12
Homerun connector	Cable, Side exit
Cable data	
Cable ID	RF51958
Total number of conductors	19
Cable diameter	Ø 9.6 mm
Length (L)	5 m, (+50mm or 4% of length/-0.0, Whichever is greater)
Cable jacket	TPE, Black
Conductor diameter	0.046 "

### Features



- Housing material: Nylon
- Housing color: Black
- Fully encapsulated
- Protection class: IP67, IP68, IP69, IP69K; NEMA 1, 3, 4, 6P, 12
- RoHS compliant
- CE compliant
- I/O port: 4-pin
- Flexlife™ Cable
- Black TPE jacket, 19X22 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1
- Flexlife® and C-Track Approved
- Cable length: 5 m

### Cable cross section



### Contact assignment

## Technical data

I/O Connector



Conductor material	TC (tinned copper)
Conductor insulation material	TPC-ET
Conductor size	19 x 22 AWG [Similar to 0.34 mm²]
Number of strands x O.D.	19 x 0.0058 "
Conductor colors	RD, WH, VT, GY/BN, YL, OG, GY, TN, BU, YL/BN, GN, WH/YL, PK, BN/GN, BK, WH/GN, RD/BU, GY/PK, BN
<b>Electrical properties at +20 °C</b>	
Rated voltage	30 VDC
Rated voltage	DC VDC
Current	2 A per signal contact, total current 6 A
<b>Mechanical and chemical properties</b>	
Bending radius (static)	≥ 5 x Ø
Bending radius (dynamic)	≥ 10 x Ø
Torsion rating	20 million cycles *
UL cold bend rating	-40 °C
Flex rating 10 x Ø	20 million cycles *
Flex rating 15 x Ø	20 million cycles
Flex rating 20 x Ø	20 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 °C...+85 °C
Ambient temperature range (dynamic)	-40 °C...+85 °C
Temperature range (installation)	-20 °C...+85 °C
<b>Approval</b>	
Approvals	CE UKCA 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.

### Scope of delivery

Device	Quantity	Description
Junction boxes	1	Passive actuator/sensor junction box
PSGK-MC	2	Closure caps for M8 female connectors
KS5/10	9	Labels

### Accessories

Ident-No.	Part Number	Description
U-67348	BKM 19-1958-5/S101	Connection cordset, female, M16, 19-pin, straight, 5m * (homerun)
U2-07160	BK 19-0	Field-wireable, female, M16, 19-pin, straight,(6-8mm)
U2-07159	BS 19-0	Field-wireable, male, M16, 19-pin, straight,(6-8mm)
A1050	KS 5/10 (10/LABELS)	Labels
U0136-00	PSG 4M-2	Cordset, male, M8 x 1, 4-pin, straight, 2m * (I/O port)
U99-11408	PSW 4M-2	Cordset, male, M8 x 1, 4-pin, right-angle, 2m * (I/O port)
U6427	PSGM-CC (8/BAG)	Dust cap, male, M8 x 1, Plastic, (8/BAG)
A900154	TORQUE-WRENCH-SET-M12&M8-LEGACY	Torque wrench set, Torque driver, torque setting tool, M12 fitting, M8 fitting.
A900102	PICOBX ADAPTOR PLATE, 8 PORT (1PACK)	Allows new picobox to utilize the previous version mounting hole locations.

\* Other lengths available on request

### Circuit Diagram

