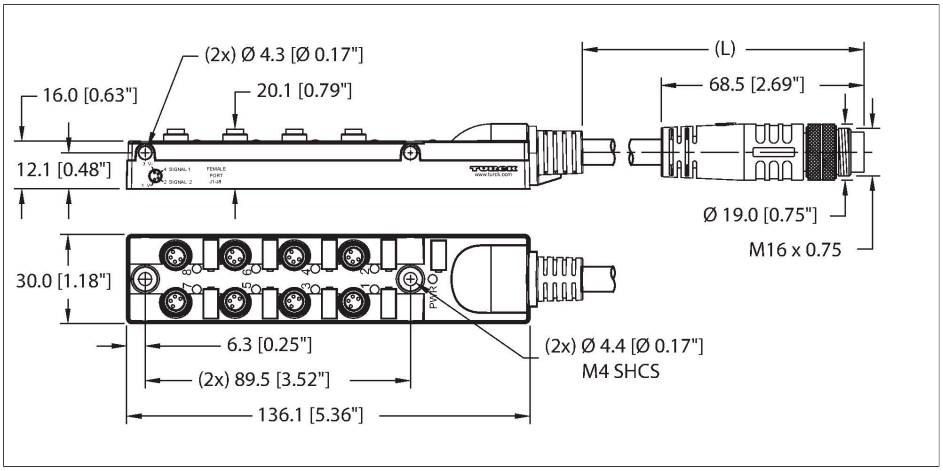
TB-8M8M-4-0.3-BSMK19/S771
Passive Actuator/Sensor Junction Box, 8 Ports – Extension Cable





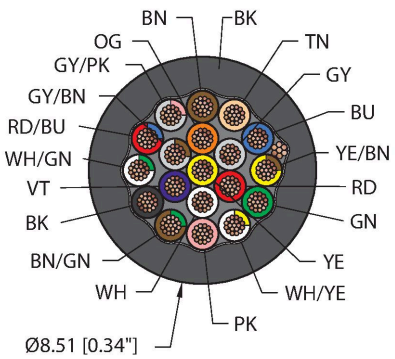
Technical data

Type	TB-8M8M-4-0.3-BSMK19/S771
ID	100012330
Distributed I/O	Junction box, 8 -port, with integral homerun cable
Housing	Plastic, PA6-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	Male, M16 × 0.75 with cable, Side exit
Connector B	M16 × 0.75, Straight
Number of contacts	19
Contacts	Brass, CuSn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Black
Coupling nut	Plastic, Delrin, Black

Features

- Housing material: Nylon
- Housing color: Black
- Fully encapsulated
- Protection class: IEC: IP67
- RoHS compliant
- CE compliant
- I/O port: 4-pin
- Instrumentation Tray Cable
- Black PVC jacket, shielded, 19X22 AWG
- Sunlight Resistant
- -40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL 1685 FT4, UL1061, CSA FT4

Cable cross section



TB-8M8M-4-0.3-BSMK19/S771| 10/03/2025 14-08 | technical changes reserved

Technical data

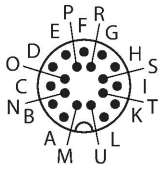
Seal	Plastic
Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class (When coupled)	IP67
Cable data	
Cable ID	RF50995
Total number of conductors	19
Cable diameter	Ø 8.51 mm
Length (L)	0.3 m, (+50mm or 4% of length/-0.0, Whichever is greater)
Cable jacket	PVC, Black
Shielding	Aluminum/polyester (IN), 24 AWG, TC (Tinned Copper)
Conductor diameter	0.048 "
Conductor material	TC (tinned copper)
Conductor insulation material	SR-PVC
Conductor size	19 x 22 AWG [Similar to 0.34 mm²]
Number of strands x O.D.	19 x 0.0058 "
Conductor colors	YE, OG, GY, RD, WH, VT, GY/BN, RD/BU, GY/PK, BN, TN, BU, YE/BN, GN, WH/YE, PK, BN/GN, BK, WH/GN
Electrical properties at +20 °C	
Rated voltage	30 VDC
Current	2 A per signal contact, total current 6 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…+85 °C
Ambient temperature range (dynamic)	5…+85 °C
Temperature range (installation)	-10…+85 °C
Approval	
Approvals	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.

Contact assignment

I/O Connector



Homerun connector



TB-8M8M-4-0.3-BSMK19/S771| 10/03/2025 14-08 | technical changes reserved

Technical data

- 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
PSGM-CC	2	Closure caps for M8 female connectors
KS5/10	9	Labels

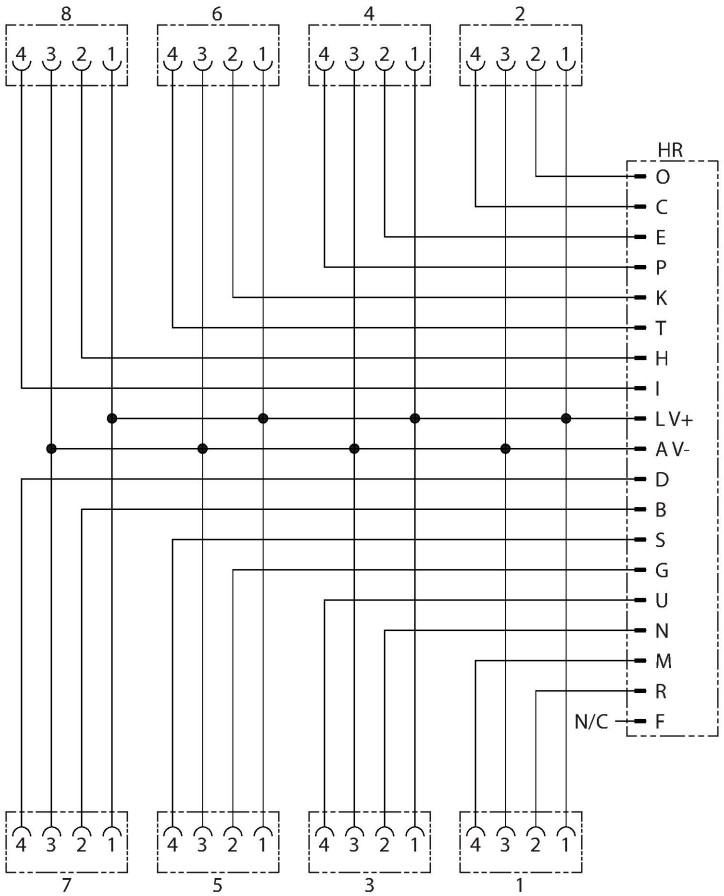
Accessories

Ident-No.	Part Number	Description
U0915-81	BKMK 19-995-5	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	PICOBOX ADAPTOR PLATE, 8 PORT (1PACK)	Allows new picobox to utilize the previous version mounting hole locations.

* Other lengths available on request

TB-8M8M-4-0.3-BSMK19/S771| 10/03/2025 14-08 | technical changes reserved

Circuit Diagram



TB-8M8M-4-0.3-BSMK19/S771| 10/03/2025 14-08 | technical changes reserved