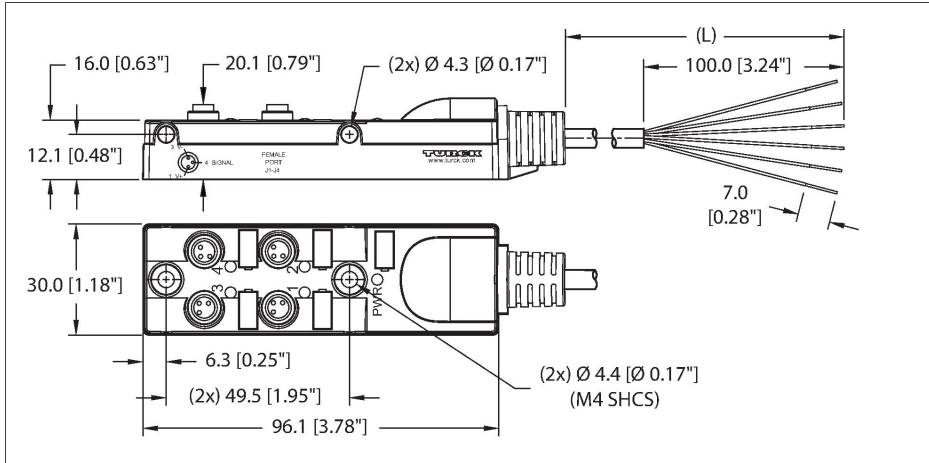


TB-4M8Z-3-5

Junction Box - Actuator/Sensor, 4-port – Ø 8 mm, I/O Slot with Integral Homerun Cable



Technical data

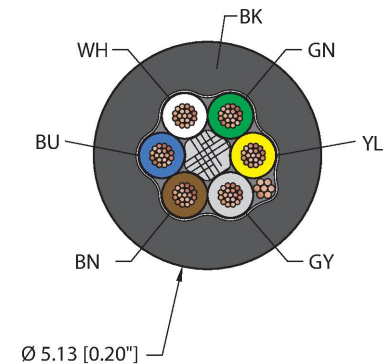
Type	TB-4M8Z-3-5
ID	U2-31576
Distributed I/O	Junction box, 4, with integral homerun cable
Housing	Plastic, PA 6 GF30, Black
I/O Port	Female, Ø 8 mm
Design specification	Acc. to IEC 61076-2-104
Number of contacts	3
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA 6 GF15, Black
Connector seal	O-ring, Plastic, FKM/FPM
Mechanical life	> 100 Mating cycles
Pollution degree	3
Protection class (When coupled)	IP67
	NEMA: 1, 3, 4, 6P
Homerun connector	Cable, Side exit
Cable data	
Cable ID	RF50845
Total number of conductors	6
Cable diameter	Ø 5.13 mm
Length (L)	5 m, (+50mm or 4% of length/-0.0, Whichever is greater)
Cable jacket	PVC, Black

Features



- Housing material: Nylon
- Housing color: Black
- Fully encapsulated
- Protection class: IEC: IP67
- CE compliant
- RoHS compliant
- I/O port: 3-pin
- General Purpose Cable
- Black PVC jacket, shielded, 6X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1
- Cable length: 5 m

Cable cross section



Technical data

Shield	Aluminum/polyester (IN)
Cable drain	26 AWG, TC (Tinned Copper)
Conductor diameter	0.044 "
Conductor material	TC (tinned copper)
Conductor insulation material	PVC
Conductor size	6 x 24 AWG [Similar to 0.25 mm²]
Number of strands x O.D.	19 x 36 AWG
Conductor colors	WH, GN, YE, GY, BN, BU

Electrical properties at +20 °C

Rated voltage	30 VDC
Rated voltage	DC 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 °C...+85 °C
Ambient temperature range (dynamic)	5 °C...+85 °C
Temperature range (installation)	-10 °C...+85 °C

Approval

Approvals	CE UKCA RoHS
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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.

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

Contact assignment

I/O Connector



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	5	Labels

Accessories

Ident-No.	Part Number	Description
U5312-2	RKC 8.6T-5	Connection cordset, female, M12, 8-pin, straight, 5m * (homerun)
U5306-20	WKC 8.6T-5	Connection cordset, female, M12, 8-pin, right-angle, 5m * (homerun)
U0885-26	B 8181-0	Field-wireable, female, M12, 8-pin, straight,(6-8mm)
U0885-25	BS 8181-0	Field-wireable, male, M12, 8-pin, straight,(6-8mm)
A1050	KS 5/10 (10/LABELS)	Labels
U0092-00	PSG 3-2	Cordset, male, Ø 8 mm (snap), 3-pin, straight, 2m * (I/O port)
U0138-2	PSW 3-2	Cordset, male, Ø 8 mm (snap), 3-pin, right-angle, 2m * (I/O port)
U2-11982	PSGK-MC (8/BAG)	Dust cap, male, Ø 8 mm (snap), (8/BAG)
A900154	TORQUE-WRENCH-SET-M12&M8-LEGACY	Torque wrench set, Torque driver, torque setting tool, M12 fitting, M8 fitting.
A900101	PICOBX ADAPTOR PLATE, 4 PORT (1PACK)	Allows new picobox to utilize the previous version mounting hole locations.

* Other lengths available on request

Circuit Diagram

