

7. CONNECTOR SHELL MUST BE RIGIDLY ANCHORED TO THE PRINTED CIRCUIT BOARD IN A MANNER THAT PRECLUDES FLEXING OF THE TERMINATION POSTS AT THE POINT OF BEND.

Technical drawing of the MTC100-BY1-013 connector assembly, showing three views: top, side, and front.

Top View:

- Overall width: 2.06 [52.32]
- Pin pitch: 1.750 [44.45]
- Pin diameter: 0.177 [4.50] MIN.
- Shell width: 1.010 MAX.
- Post protector: 0.025 [0.64] SQ.
- Adapter screw: 2X ADAPTER SCREW (SELF-LOCKING)
- Insert: 6X PANEL WASHER 0.031 [0.79] TYP.
- Keying pin: 2X KEYING PIN (SNAP IN)
- Adapter nut: 2X ADAPTER NUT
- Shell: 0.59 [15.0]

Side View:

- Pin diameter: 0.16 [4.1] MAX.
- Pin height: 0.25 [6.4] MAX.
- Pin contact: 0.16 [4.1]
- Part number: MTC100-BY1-013
- Date code: Raychem
- Dust cap: 0.16 [4.1]
- Interfacial seal: 0.16 [4.1]
- Panel gasket: 0.134 ± 0.016

Front View:

- Contact number 1 marked
- Panel gasket
- 2X keying pin insert
- Shell

RAYCHEM CORPORATION 300 CONSTITUTION DRIVE, MENLO PARK, CALIFORNIA 94025	
4 4 4 4	
TITLE CONNECTOR, RECEPTACLE, FLANGED, PIN, BOXMOUNT, 1 - INCH, .025 SQ. POST, RIGHT ANGLE, MTC100 SERIES (16VE049006-4)	
SIZE A	CODE IDENT. NO. 06090
DWG. NO. MTC100-BY1-013	REV B
DO NOT SCALE THIS DRAWING	

SPECIFICATIONS:

MATERIALS:

A. SHELL	ALUMINUM ALLOY PER QQ-A-591
B. ADAPTER SCREW	STAINLESS STEEL PER QQ-S-763, 300 SERIES
C. ADAPTER NUT	STAINLESS STEEL PER QQ-S-763, 300 SERIES
D. STANDARD PANEL GASKET	SILICONE ELASTOMER PER MIL-R-25988
E. INSERT	HIGH GRADE POLYARYLENE THERMOPLASTIC
F. INTERFACIAL SEAL	SILICONE ELASTOMER PER MIL-R-25988
G. KEYING PIN	HIGH GRADE POLYARYLENE THERMOPLASTIC
H. PIN CONTACT	COPPER ALLOY PER QQ-B-750
I. PANEL WASHER	STAINLESS STEEL PER QQ-S-763, 300 SERIES
J. KEYING PIN INSERT	HIGH GRADE POLYARYLENE THERMOPLASTIC

FINISH:

APPLIES TO CADMIUM
PLATED CONNECTORS

A. SHELL	CADMIUM PLATED PER QQ-P-416 OVER NICKEL UNDERPLATE
B. ADAPTER SCREW	CADMIUM PLATED PER QQ-P-416
C. ADAPTER NUT	CADMIUM PLATED PER QQ-P-416
D. PANEL WASHER	CADMIUM PLATED PER QQ-P-416
E. PIN CONTACT	ENGAGING END - GOLD PLATED PER MIL-G-45204 TYPE 1, GRADE C, CLASS 1 TERMINATION POST - TINNED WITH Sn63 SOLDER PER QQ-S-571

DESIGN AND CONSTRUCTION:

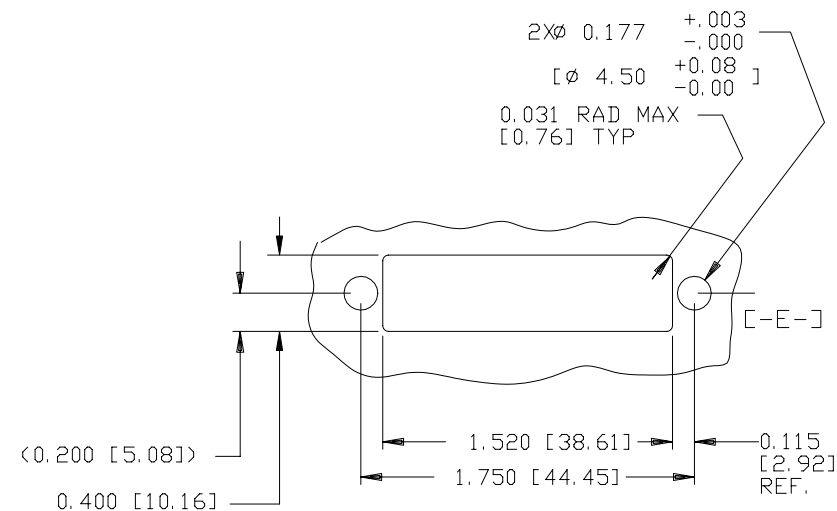
THE CONNECTORS SPECIFIED HEREIN ARE PANEL MOUNTED RECEPTACLES WITH FIXED (NON REMOVABLE) PIN INSERTS AND CONTACTS. THE CONNECTOR IS WITHOUT PROVISIONS FOR CABLE CLAMPS OR TERMINATION SEALS.

PERFORMANCE:

THE APPLICABLE RAYCHEM SPECIFICATION FOR THIS PART IS C6111.
THIS PART IS NOT QUALIFIED TO C6111.

HUMIDITY
ALTITUDE IMMERSION
ALTITUDE-LOW TEMPERATURE
FLUID IMMERSION

THE CONNECTOR TERMINATION END MUST BE SUITABLY PROTECTED FOR TESTING OR APPLICATION IN ANY OF THESE ENVIRONMENTS.



RECOMMENDED PANEL CUT-OUT

TABLE 2	
PANEL THICKNESS	NUMBER OF PANEL WASHERS FOR EACH FASTENER
0.031/0.036 [0.81/[0.9]	2
0.062/0.067 [1.53/[1.7]	1
0.093/0.097 [2.31/[2.4]	0

TABLE 3	
WEIGHT (lbs.[gr.] MAX.	
CONNECTOR SIZE	FLANGED
1 INCH	0.044 [19.96]

If this document is printed it becomes uncontrolled.
Check with the web for latest revision.

DRAWN	DATE	SIZE	CODE IDENT. NO.	DWG. NO.	REV
ISSUED	DATE	A	06090	MTC100-BY1-013	B
DO NOT SCALE THIS DRAWING		CAB NAME 008111-2.DWG		SHEET 2 OF 2	

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