

① PART NUMBER VARIABLES: NOT ALL POSSIBLE CONFIGURATIONS SHOWN ON THIS DRAWING ARE AVAILABLE AS STANDARD PRODUCTS. PLEASE CHECK WITH RAYCHEM TO CONFIRM AVAILABILITY.

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THIS FIELD OF NUMBERS IS REPLACED BY 3 DIGITS
(-001 / -999) FOR SPECIALS

MTC100-BXX-SXX-XXX

MODIFICATIONS: REFER TO APPLICABLE MOD DESCRIPTION SHEET.
"BLANK WHEN NOT APPLICABLE"

POST CONFIGURATIONS

1 = LONG POST
2 = SHORT POST
3 = POST BENT 90°
"B" DIRECTION

FINISH

2 = NICKEL PLATED
3 = CADMIUM OVER NICKEL PLATED

SIZE

1 = 1 INCH
2 = 2 INCH

STYLE

C = FLANGED WITH CONDUCTIVE PANEL GASKET AND
EXTERNAL MOUNTING HARDWARE
D = FLANGED WITH FLUOROSILICONE PANEL GASKET AND
EXTERNAL MOUNTING HARDWARE
F = FLANGED WITH FLUOROSILICONE PANEL GASKET
S = FLANGED WITH CONDUCTIVE PANEL GASKET
Y = SPECIAL (REFER TO INDIVIDUAL
SPECIFICATION CONTROL DRAWINGS
FOR DESCRIPTIONS)

2. A SOCKET BOXMOUNT RECEPTACLE MATES WITH A MTC PLUG CONTAINING PIN INSERTS. REFER TO APPLICABLE RAYCHEM SPECIFICATION CONTROL DRAWINGS FOR DETAILS.

△3 FOR KEYING INFORMATION, SEE RAYCHEM DRAWING
D-659-0080.

△₄ THESE ITEMS ARE SUPPLIED UNASSEMBLED.

5 DIMENSION SHOWN IS WITH MATED PLUG CONNECTOR:

- WITH CABLE CLAMP
- WITHOUT CABLE CLAMP AND WITHOUT EARS

△ THIS BOXMOUNT RECEPTACLE IS REAR PANEL MOUNTED AS SHOWN BY REMOVING AS MANY PANEL WASHERS AS REQUIRED TO ACCOMMODATE THE THICKNESS OF THE PANEL BEING USED. REFER TO SHEET 3, FIGURE 4 AND TABLE 2.

 WIRE WRAPPABLE TERMINATION POST DESIGNED TO MIL-STD-1130.

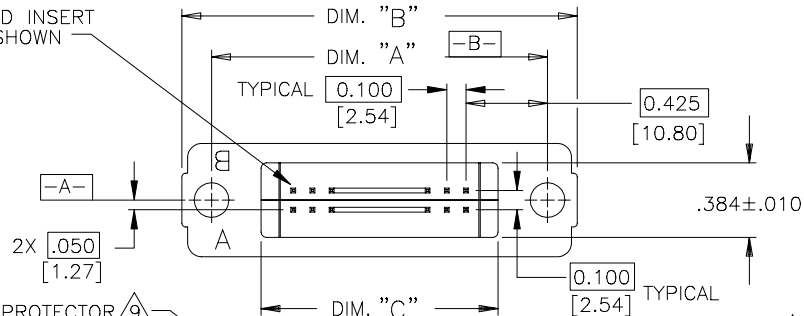
⚠ KIT NUMBER CHA-0046-XXX IS AVAILABLE FOR MOUNTING
A CONNECTOR TO A PRINTED CIRCUIT BOARD.
SEE SHEET 3, FIGURE 3 FOR THE HOLE PATTERN
RECOMMENDATION.

SEE SHEET 3, TABLE 3 FOR WEIGHTS. WEIGHTS SHOWN ARE WITHOUT DUST CAP AND WITHOUT TERMINATION POST PROTECTOR.

SEE SHEET 2 FIGURES FOR CONFIGURATION VARIATIONS.

11 TORQUE MOUNTING HARDWARE TO: 14-16 IN-LBS

1" STANDARD INSERT
ASSEMBLY SHOWN —



POST PROTECTOR (9) —
PRIOR TO TERMINATION)

1" INSERT CONTACT -
IDENTIFICATION SHOWN

MOUNTI
PANFI

① APPLICABLE PART NUMBER —
(NUMBER SHOWN IS FOR REF. ONLY)

PANEL THICKNESS		
0.097	[2.46]	MAX.
0.031	[0.79]	MIN.

DATE CODE

— CONTACT  TERMINATION POST
□ 0.025 [0.64]

⊕	0.020[0.51]	Ⓜ	A	B	C
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2X ADAPTER SCREW

— INSERT
— SHELL (RECEPTACLE)

6X PANEL WASHER

— 2X KEYING PIN
3 4

— 2X ADAPTER NUT
4

DUST CAP 

- A SIDE NO. 1 SOCKET CONTACT
- KEY PIN INSERT
- PANEL GASKET 
- "B" SIDE NO. 1 SOCKET CONTACT

VIEW W-W

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
METRIC DIMENSIONS ARE
IN BRACKETS.

DECIMALS		
.XXX	± .005	[0.13 mm]
.XX	± .02	[0.51 mm]
ANGLES		
.X	±	
WEIGHT		^

SPECIFICATION CONTROL DRAWING

RE-DRAWN	J.VALENTA	04/20/98
CHECKED		
APPROVED	M.HIGGY	04/26/98
APPROVED		
CAD NAME T22751a.DWG		
THIRD ANGLE PROJECTION		

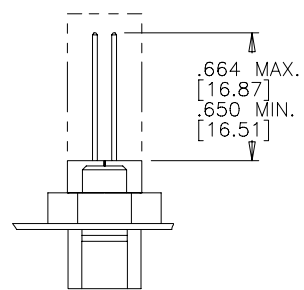
Raychem

RAYCHEM CORPORATION
300 CONSTITUTION DRIVE
MENLO PARK, CALIFORNIA 94025

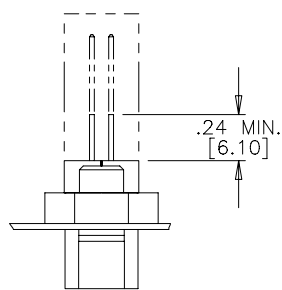
TITLE	CONNECTOR, RECEPTACLE, FLANGED, BOXMOUNT, SOCKET, .025 SQ. TERMINATION POST, MTC100 SERIES
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SIZE C	CODE IDENT. NO. 06090	DWG. NO. MTC100-BXX-SXX-XXX	
DO NOT SCALE THIS DRAWING		SHEET 1 OF 1	

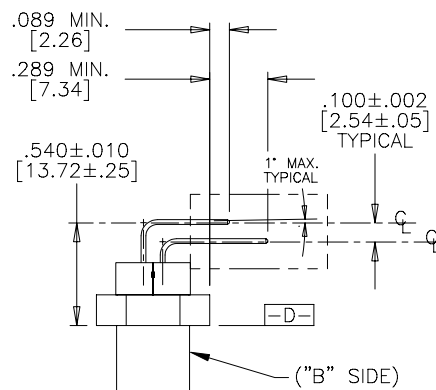
FIGURE 1
BASIC DESIGN VARIATIONS



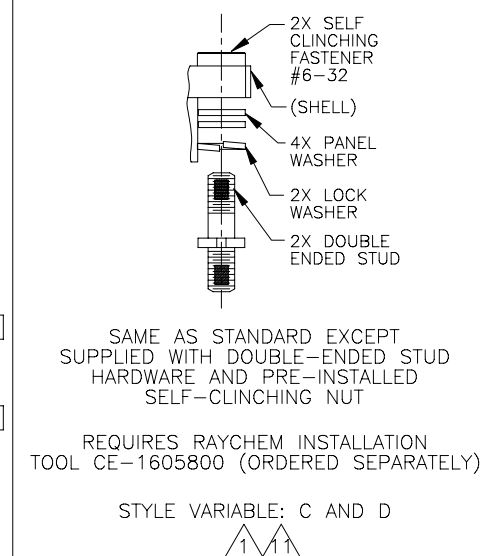
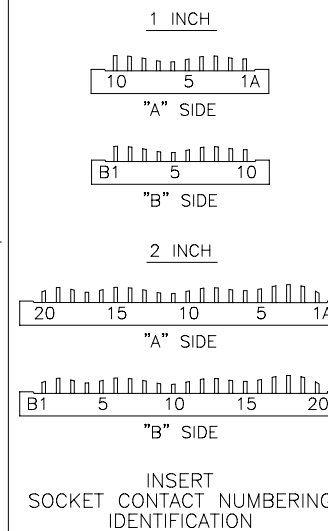
LONG TERMINATION POSTS
MTC100-BF/SX-SX1



SHORT TERMINATION POSTS
MTC100-BF/SX-SX2



TERMINATION POSTS BENT
90° IN "B" DIRECTION
MTC100-BF/SX-SX3



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SIZE C	CODE IDENT. NO. 06090	DWG. NO. MTC100-BXX-SXX-XXX	REV H
DO NOT SCALE THIS DRAWING		DATE T22751b.DWG	SHEET 2 OF 3

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 EME PANEL GASKET	SILICONE ELASTOMER PER MIL-R-25988 CONDUCTIVE FLOROSILICONE
E. INSERT	HIGH GRADE THERMOPLASTIC DIELECTRIC
F. KEYING PIN	HIGH GRADE THERMOPLASTIC DIELECTRIC
G. SOCKET CONTACT	COPPER ALLOY 172 PER QQ-C-533
H. PANEL WASHER	STAINLESS STEEL PER QQ-S-763, 300 SERIES
J. KEYING PIN INSERT	HIGH GRADE THERMOPLASTIC DIELECTRIC

FINISH:

	APPLIES TO NICKEL PLATED CONNECTORS (STANDARD PLATING)	APPLIES TO CADMIUM PLATED CONNECTORS
A. SHELL	NICKEL PLATED PER MIL-C-26074 CLASS 3, GRADE B	CADMIUM PLATED PER QQ-P-416 OVER NICKEL UNDERPLATE
B. ADAPTER SCREW	PASSIVATED PER QQ-P-35	CADMIUM PLATED PER QQ-P-416
C. ADAPTER NUT	PASSIVATED PER QQ-P-35	CADMIUM PLATED PER QQ-P-416
D. PANEL WASHER	PASSIVATED PER QQ-P-35	CADMIUM PLATED PER QQ-P-416
E. SOCKET CONTACT	ENGAGING END - GOLD PLATED PER MIL-G-45204 TYPE 1, GRADE C, CLASS 1	

DESIGN AND CONSTRUCTION:

THE CONNECTORS SPECIFIED HEREIN ARE PANEL MOUNTED RECEPTACLES WITH FIXED (NON-REMOVABLE) SOCKET 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.

TABLE 1

CONNECTOR SIZE	"A"	"B"	"C"	"X"	"Y"	"Z"
1 INCH	1.750 [44.45]	2.06 [52.3]	1.234 [31.34]	1.750 [44.45]	1.520 [38.61]	0.600 [15.24]
2 INCH	2.750 [69.85]	3.06 [77.7]	2.234 [56.74]	2.750 [69.85]	2.520 [64.00]	0.600 [15.24]

TABLE 2

PANEL THICKNESS	NUMBER OF PANEL WASHERS FOR EACH FASTENER
0.031/0.036 [0.8]/[0.9]	2
0.062/0.067 [1.5]/[1.7]	1
0.93/0.097 [2.3]/[2.4]	0

TABLE 3

WEIGHT lbs.[gr.] MAX.	
1 INCH CONNECTOR	.049 [22.33]
2 INCH CONNECTOR	.068 [30.82]

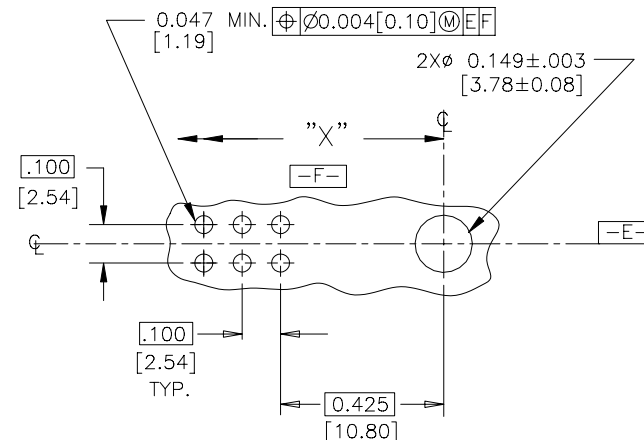


FIGURE 3

RECOMMENDED HOLE PATTERN AND SIZE
FOR PRINTED CIRCUIT BOARDS

"Z" MINIMUM
RECOMMENDED CENTERLINE
FOR ADJACENT MOUNTING

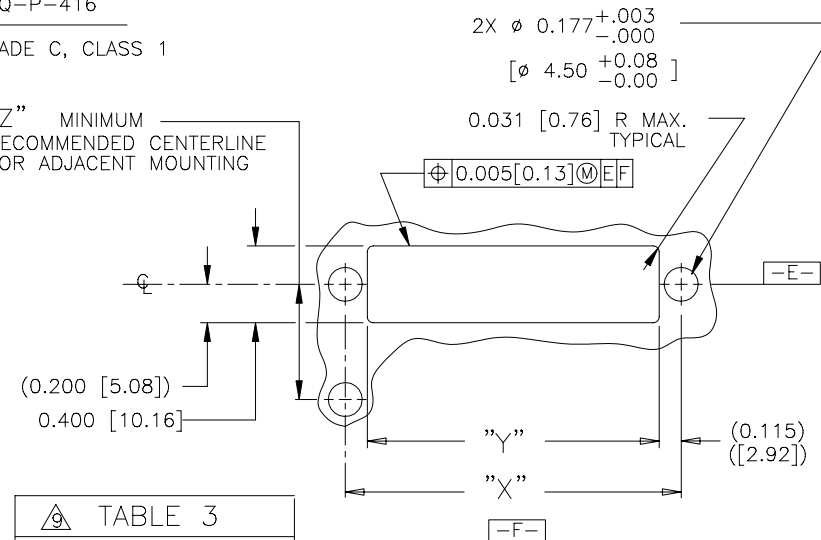


FIGURE 4

RECOMMENDED PANEL CUT-OUT

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SIZE	CODE IDENT. NO.	DWG. NO.	REV
C	06090	MTC100-BXX-SXX-XXX	H
DO NOT SCALE THIS DRAWING			
T22751c.DWG SHEET 3 OF 3			