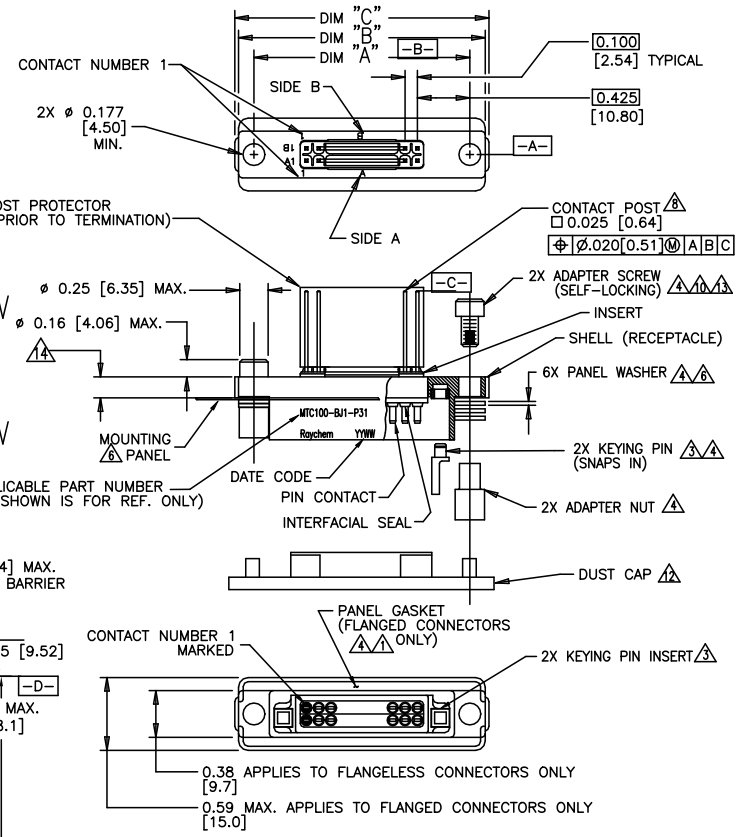
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
J1	REVISED PER ECO-11-005139	29MAR11	RK/HMR
K	REVISED PER ECO-20-009082	02JUL20	A.SOLIS

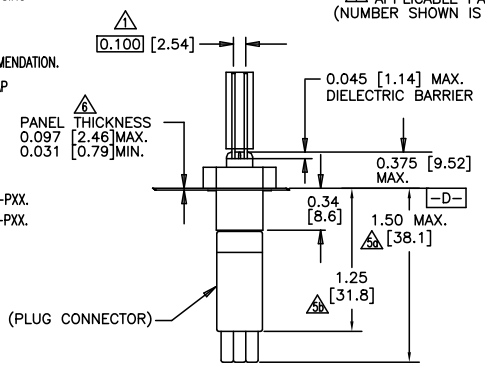
NOTES:

1. PART NUMBER VARIABLES: (SEE SHEET 2 FOR ADDITIONAL INFORMATION)
NOT ALL POSSIBLE CONFIGURATIONS SHOWN ON THIS DRAWING ARE AVAILABLE AS STANDARD PRODUCTS. PLEASE CHECK WITH TE CONNECTIVITY TO CONFIRM AVAILABILITY.

MTC100-BXX-PXX-XXX
- MODIFICATION NUMBER. REFER TO APPLICABLE MOD DESCRIPTION SHEET. "BLANK WHEN NOT APPLICABLE"
- 1=LONG TAIL, 2=SHORT TAIL, 3=90° IN "B" DIRECTION
- 2=NICKEL PLATE, 3=CADMIUM OVER NICKEL PLATE
- 1=1 INCH, 2=2 INCH
- F=FLANGED WITH STANDARD PANEL GASKET, S=FLANGED/SHIELDED WITH EME PANEL GASKET, J=FLANGELESS, Y=SPECIALS: REFER TO INDIVIDUAL SPECIFICATION CONTROL DRAWINGS FOR DESCRIPTIONS

2. A BOX MOUNT RECEPTACLE MATES WITH A MTC PLUG CONTAINING SOCKET INSERTS. REFER TO APPLICABLE TE CONNECTIVITY SPECIFICATION CONTROL DRAWING FOR DETAILS.
3. FOR KEYING INFORMATION, SEE TE CONNECTIVITY DRAWING D-659-0080.
4. THESE ITEMS ARE SUPPLIED UNASSEMBLED.
5. DIMENSION SHOWN IS WITH MATED PLUG CONNECTOR: a. WITH CABLE CLAMP b. WITHOUT CABLE CLAMP AND WITHOUT EARS
6. THIS BOX MOUNT RECEPTACLE IS REAR PANEL MOUNTED BY REMOVING AS MANY PANEL WASHERS AS REQUIRED TO ACCOMMODATE THE THICKNESS OF THE PANEL BEING USED. SEE SHEET 2, TABLE 2, AND SHEET 3, FIGURE 2.
7. FOR FRONT PANEL MOUNTING OF A FLANGELESS CONNECTOR, USE HARDWARE KIT CHA-0038-00 AND REFER TO THAT SPECIFICATION CONTROL DRAWING FOR APPLICATION DETAILS.
8. WIRE WRAPPABLE POST DESIGNED BY STANDARD WIRE WRAP SPECIFICATION.
9. WHEN MOUNTING FLANGELESS CONNECTORS ADJACENT TO ONE ANOTHER AND USING THE .400 MINIMUM CENTERLINE LOCATION, THERE WILL BE NO WEB BETWEEN PANEL CUT-OUTS. SEE SHEET 3, FIGURE 2 FOR DETAILS.
10. KIT NUMBER CHA-0046 IS AVAILABLE FOR MOUNTING A CONNECTOR TO A PRINTED CIRCUIT BOARD. SEE SHEET 3, FIGURE 3 FOR HOLE PATTERN RECOMMENDATION.
11. SEE SHEET 3, TABLE 3, FOR WEIGHTS. WEIGHTS SHOWN ARE WITHOUT DUST CAP AND WITHOUT POST PROTECTOR.
12. DUST CAP SUPPLIED WITH ASSEMBLY.
13. TORQUE MOUNTING HARDWARE TO: 14-16 IN-LBS.
14. THE FLANGE THICKNESS IS DIFFERENT ACCORDING TO SHELL STYLE AND SIZE.
THE THICKNESS: 0.170 [4.32] FOR P/N MTC100-BF2-PXX AND MTC100-BS2-PXX.
THE THICKNESS: 0.160 [4.06] FOR P/N MTC100-BX1-PXX AND MTC100-BJ2-PXX.





VIEW W-W

CUSTOMER DRAWING

IF THIS DOCUMENT IS PRINTED IT BECOMES UNCONTROLLED. CHECK FOR THE LATEST REVISION.

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

DECIMALS
.XXX ± .005 {0.13mm}
.XX ± .01 {0.25mm}
ANGLES
.X ±

WEIGHT 11

RE-DRAWN	J.VALENTA	04/20/99
CHECKED		
APPROVED	M.HIGGY	04/23/99
APPROVED		
CAD NAME	MTC100-BXX-PXX-XXX	
THIRD ANGLE PROJECTION		

TE Connectivity

Raychem Interconnect
300 Constitution Drive
Menlo Park, CA 94025 U.S.A.

TITLE: CONNECTOR, RECEPTACLE, BOX MOUNT, .025 SQ., TERMINATION POST, MTC100 SERIES

SIZE	CAGE CODE:	DWG. NO.	REV
C	06090	MTC100-BXX-PXX-XXX	K

SCALE: NONE SHEET 1 OF 3

DWG NO. MTC100-BXX-PXX-XXX SHEET 1

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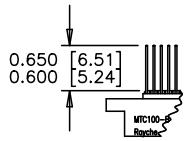
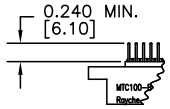
FIGURE 1

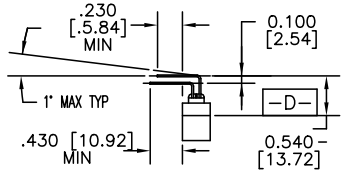
△1 BASIC DESIGN (AVAILABLE)



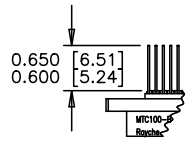
TERMINATION POSTS
0.580 MINIMUM LENGTH
FLANGELESS
MTC100-BJX-PX1



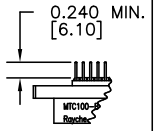
TERMINATION POSTS
0.240 MINIMUM LENGTH
FLANGELESS
MTC100-BJX-PX2



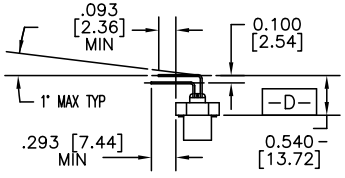
TERMINATION POSTS BENT
90° IN "B" DIRECTION
FLANGELESS
MTC100-BJX-PX3



TERMINATION POSTS
0.580 MINIMUM LENGTH
FLANGED
MTC100-BF/SX-PX1



TERMINATION POSTS
0.240 MINIMUM LENGTH
FLANGED
MTC100-BF/SX-PX2



TERMINATION POSTS BENT
90° IN "B" DIRECTION
FLANGED
MTC100-BF/SX-PX3

TABLE 1

CONNECTOR SIZE		"A"	"B"	"C"	"X"	"Y"	"Z" (MIN)
1 INCH	FLANGELESS	1.750 [44.45]	2.00 [50.8]		1.750 [44.45]	1.520 [38.61]	0.400 [10.16]
	FLANGED	1.750 [44.45]		2.06 [52.3]	1.750 [44.45]	1.520 [38.61]	0.600 [15.24]
2 INCH	FLANGELESS	2.750 [69.85]	3.00 [76.2]		2.750 [69.85]	2.520 [64.00]	0.400 [10.16]
	FLANGED	2.750 [69.85]		3.06 [77.7]	2.750 [69.85]	2.520 [64.00]	0.600 [15.24]

TABLE 2 △6

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

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CUSTOMER DRAWING

SIZE	CAGE CODE:	DWG. NO.	REV.
C	06090	MTC100-BXX-PXX-XXX	K
CAD NAME: MTC100-BXX-PXX-XXX		SCALE: NONE	SHEET 2 OF 3

SHEET 2
DWG NO. MTC100-BXX-PXX-XXX

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SPECIFICATIONS:

MATERIALS:

A. SHELL	ALUMINUM ALLOY PER ASTM B85 / B85M OR ASTM B221
B. ADAPTER SCREW	STAINLESS STEEL PER SAE–AMS–QQ–S–763, 300 SERIES
C. ADAPTER NUT	STAINLESS STEEL PER SAE–AMS–QQ–S–763, 300 SERIES
D. STANDARD PANEL GASKET EMI PANEL GASKET	SILICONE ELASTOMER PER MIL–STD–25988 CONDUCTIVE ELASTOMER PER MIL–DTL–83528 TYPE C, GRAY.
E. INSERT	HIGH GRADE POLARYLENE THERMOPLASTIC, MOLDED
F. INTERFACIAL SEAL	FLUOROSILICONE PER MIL–DTL–25988
G. KEYING PIN	HIGH GRADE POLARYLENE THERMOPLASTIC, MOLDED
H. PIN CONTACT	COPPER ALLOY PER ASTM B139 / B139M
I. PANEL WASHER	STAINLESS STEEL PER SAE–AMS–QQ–S–763 OR ASTM B240, 300 SERIES
J. KEYING PIN INSERT	HIGH GRADE POLARYLENE THERMOPLASTIC, MOLDED

FINISH:

	APPLIES TO NICKEL PLATED CONNECTORS (STANDARD PLATING)	APPLIES TO CADMIUM PLATED CONNECTORS
A. SHELL	NICKEL PLATED PER SAE–AMS–C–26074 CLASS 3, GRADE B	CADMIUM PLATED PER SAE–AMS–QQ–P–416 OVER NICKEL UNDERPLATE
B. ADAPTER SCREW	PASSIVATED PER SAE–AMS–QQ–P–35	CADMIUM PLATED PER SAE–AMS–QQ–P–416
C. ADAPTER NUT	PASSIVATED PER SAE–AMS–QQ–P–35	CADMIUM PLATED PER SAE–AMS–QQ–P–416
D. PANEL WASHER	PASSIVATED PER SAE–AMS–QQ–P–35	CADMIUM PLATED PER SAE–AMS–QQ–P–416
E. PIN CONTACT	GOLD PLATED PER ASTM B488 TYPE 2, GRADE C	

DESIGN AND CONTRUCTION:

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:

THESE CONNECTORS MEET THE APPLICABLE REQUIREMENTS OF TE CONNECTIVITY SPECIFICATION C–6111.

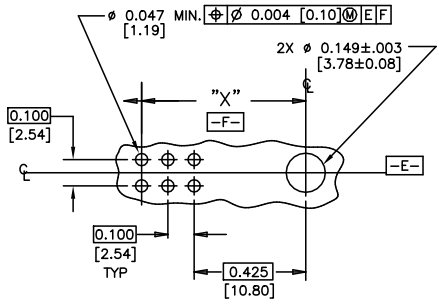
PERFORMANCE; SHELL BE IN ACCORDANCE WITH C–6111, EXCEPT AS FOLLOWS

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.

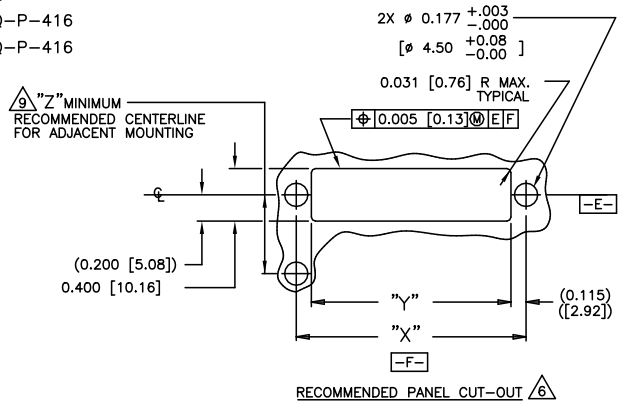
TABLE 3	
PART NUMBER	WEIGHT MAXIMUM GRAMS
MTC100–BF1–P32	23.0
MTC100–BF2–P32	33.2

THE FOLLOWING TABLE CONSISTS OF WEIGHTS FOR THESE SPECIFIC PART NUMBERS (11)



(10) RECOMMENDED HOLE PATTERN AND SIZE FOR PRINTED CIRCUIT BOARDS

FIGURE 3



RECOMMENDED PANEL CUT–OUT (6)

FIGURE 2

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CUSTOMER DRAWING

SIZE	CAGE CODE:	DWG. NO.	REV
C	06090	MTC100–BXX–PXX–XXX	K
CAD NAME: MTC100–BXX–PXX–XXX		SCALE: NONE	SHEET 3 OF 3

SHEET 3
DWG NO. MTC100–BXX–PXX–XXX

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