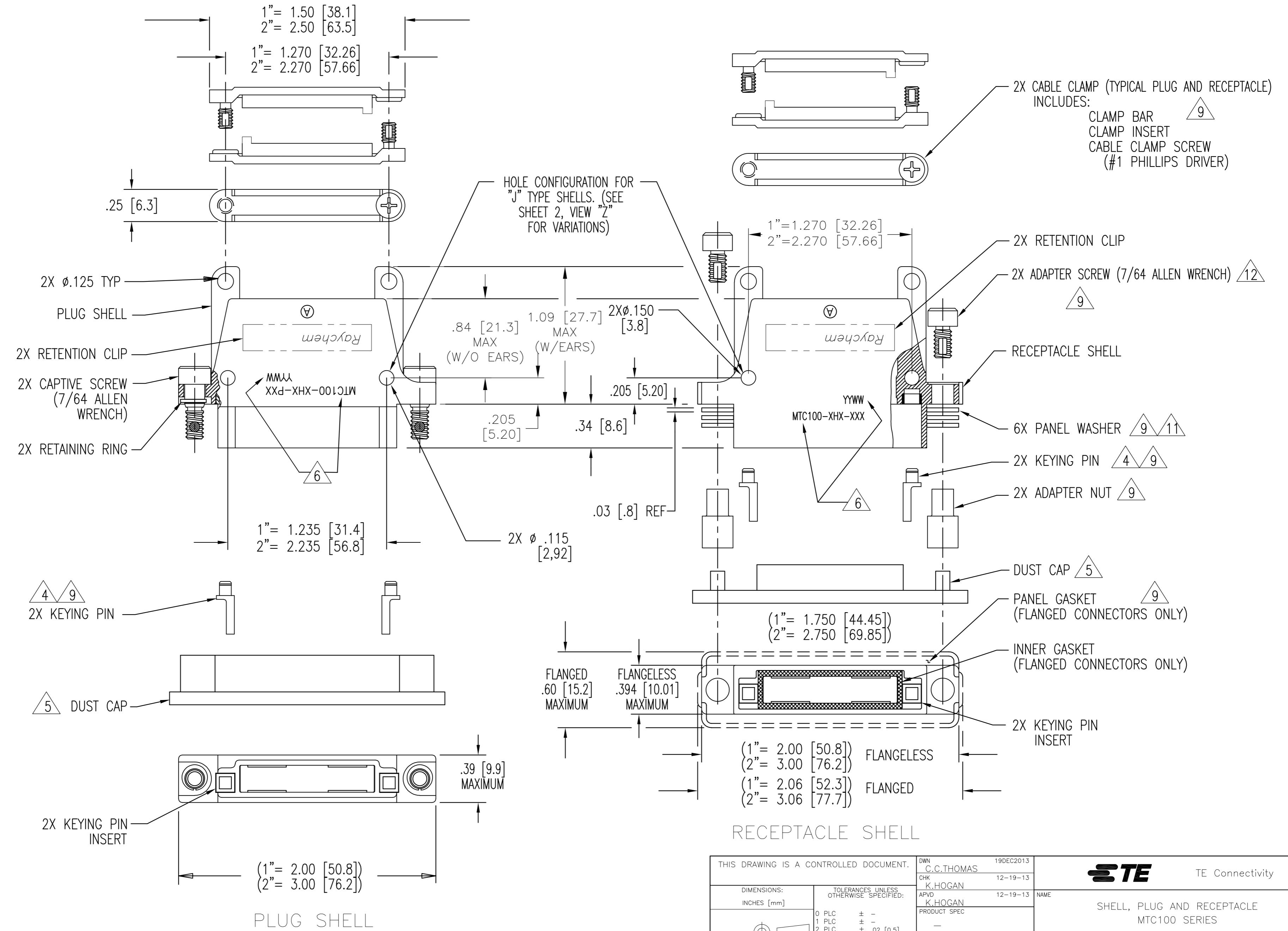


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LOC —	DIST —	REVISIONS							
		P	LTR	DESCRIPTION			DATE	DWN	APVD
		W		REV PER ECO 13-019993			12-19-13	CT	KH



1. **What is the primary purpose of the study?**

THIS DRAWING IS A CONTROLLED DOCUMENT.		DRAWN C.C.THOMAS	19DEC2013	 TE Connectivity	
DIMENSIONS: INCHES [mm]		CHK K.HOGAN	12-19-13		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD K.HOGAN	12-19-13		
		PRODUCT SPEC	—		
		APPLICATION SPEC	—		
 0 PLC $\pm$ — 1 PLC $\pm$ — 2 PLC $\pm$ .02 [0.5] 3 PLC $\pm$ .005 [0.13] 4 PLC $\pm$ — ANGLES $\pm$ —		NAME	SHELL, PLUG AND RECEPTACLE MTC100 SERIES		
MATERIAL —		SIZE A2	CAGE CODE 00779	DRAWING NO C=MTC100-XHX-XXX-XXX	RESTRICTED TO —
FINISH —		CUSTOMER DRAWING			SCALE NTS
					SHEET 1 OF 3
					REV W

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LOC	DIST	REVISIONS				
		P	LTR	DESCRIPTION	DATE	
				SEE SHEET #1		

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

MTC100-XHX-XXX-XXX

MODIFICATIONS (see table I) (THIS SPACE BLANK IF NO MODIFICATION IS APPLICABLE)

1= W/O CABLE CLAMP AND W/O EARS ON SHELL  
2= WITH CABLE CLAMP AND EARS ON SHELL  
3= W/O CABLE CLAMP AND WITH EARS  
4= WITH FLAT CABLE CLAMP (SEE VIEW V) AND EARS ON SHELL

1= BLACK ANODIZED (WHITE MARKING)  
2= ELECTROLESS NICKEL (BLACK MARKING)  
3= CADMIUM OVER NICKEL UNDERPLATE (BLACK MARKING)

P= PLUG  
R= FLANGELESS RECEPTACLE  
F= FLANGED RECEPTACLE: STANDARD ("J" TYPE) HAS NON CONDUCTIVE FLUOROSILICONE GASKET SHIELDED ("S" TYPE) HAS CONDUCTIVE FLUOROSILICONE GASKET

1= 1 INCH  
2= 2 INCH

J= STANDARD TYPE  
S= SHIELDED  
Y= SPECIAL TYPE: REFER TO INDIVIDUAL SPECIFICATION CONTROL DRAWINGS FOR DESCRIPTIONS

2. MATERIAL:

A) SHELL	ALUMINUM ALLOY PER ASTM B85
B) RETENTION CLIP	COPPER ALLOY 172 PER ASTM B194
C) ADAPTER SCREW OR CAP SCREW	STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES
D) ADAPTER NUT OR RETAINER BUSHING	STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES
E) PANEL OR LOCK WASHER	STAINLESS STEEL PER SAE-AMS-QQ-S-763 OR ASTM B240, 300 SERIES
F) KEYING PIN	HIGH GRADE POLYARYLENE THERMOPLASTIC, MOLDED
G) KEY PINS INSERT	HIGH GRADE POLYARYLENE THERMOPLASTIC, MOLDED
H) CLAMP BAR	STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES
J) CLAMP INSERT	SILICONE ELASTOMER PER MIL-R-25988
K) CAPTIVE SCREW	STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES
L) RETAINING RING	COPPER ALLOY 172 PER ASTM B194

3. FINISH:

	APPLIES TO NICKEL PLATED CONNECTORS	APPLIES TO CADMIUM PLATED CONNECTORS	APPLIES TO BLACK ANODIZED 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	BLACK ANODIZED PER MIL-A-8625, TYPE II, CLASS 2
B) RETENTION CLIP	NICKEL PLATED PER SAE-AMS-C-26074 CLASS 2, .00002 MINIMUM	CADMIUM PLATED PER SAE-AMS-QQ-P-416	NICKEL PLATED PER SAE-AMS-C-26074 CLASS 2, .00002 MINIMUM
C) ADAPTER OR CAP SCREW	PASSIVATED PER SAE-AMS-2700	CADMIUM PLATED PER SAE-AMS-QQ-P-416	PASSIVATED PER SAE-AMS-2700
D) ADAPTER NUT OR RETAINER BUSHING	PASSIVATED PER SAE-AMS-2700	CADMIUM PLATED PER SAE-AMS-QQ-P-416	PASSIVATED PER SAE-AMS-2700
E) PANEL OR LOCK WASHER	PASSIVATED PER SAE-AMS-2700	CADMIUM PLATED PER SAE-AMS-QQ-P-416	PASSIVATED PER SAE-AMS-2700
F) CLAMP BAR	PASSIVATED PER SAE-AMS-2700	CADMIUM PLATED PER SAE-AMS-QQ-P-416	PASSIVATED PER SAE-AMS-2700
G) CAPTIVE SCREW	PASSIVATED PER SAE-AMS-2700	CADMIUM PLATED PER SAE-AMS-QQ-P-416	PASSIVATED PER SAE-AMS-2700
H) RETAINING RING	NICKEL PLATED PER SAE-AMS-C-26074	CADMIUM PLATED PER SAE-AMS-QQ-P-416	NICKEL PLATED PER SAE-AMS-C-26074

4. FOR MOUNTING / MATING AND KEYING INFORMATION, SEE RAYCHEM DRAWING D652-0012.

5. DUST CAP SUPPLIED WITH EACH PLUG OR RECEPTACLE.  
NO DUST CAPS ARE SUPPLIED WHEN SHELLS ARE SHIPPED TO CUSTOMER SPECIFICATION NUMBER 991006.

6. APPROPRIATE PART NUMBER AND DATE CODE ARE STAMPED APPROXIMATELY AS SHOWN.

7. THESE PARTS MEET THE REQUIREMENTS OF RAYCHEM SPECIFICATION C-6111.

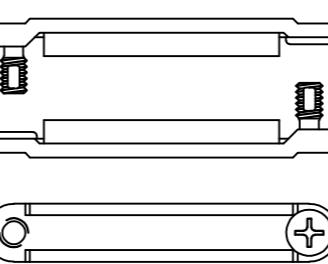
8. FLANGED RECEPTACLE CONNECTORS PROPERLY MATED AND TORQUED TO 9 INCH POUNDS WILL EXHIBIT AN AIR LEAK RATE NOT EXCEEDING .5 CC / SECOND AT 30 PSI AND 25° C. (APPLICABLE ONLY TO FLANGED RECEPTACLES WITH PIN INSERTS)

9. THESE ITEMS ARE SUPPLIED UNASSEMBLED.

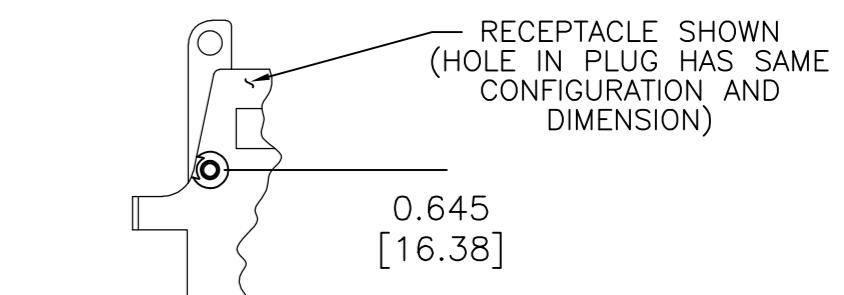
10. SEE TABLE II & TABLE 4 SHEET 3, WEIGHTS ARE WITHOUT DUST CAP.

11. THIS RECEPTACLE IS REAR PANEL MOUNTED BY REMOVING AS MANY PANEL WASHERS AS REQUIRED TO ACCOMMODATE THE THICKNESS OF THE PANEL BEING USED. (SEE TABLE III)

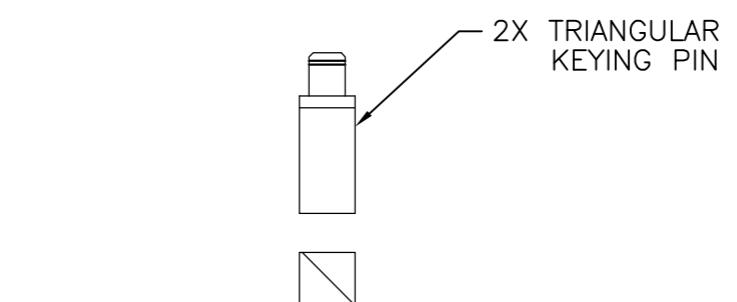
12. RECEPTACLE ADAPTER SCREWS (CAP SCREWS) ARE TO BE TORQUED TO  $15 \pm 1$  INCH-LBS (1.0  $\pm$  0.07 N-M)



FLAT CABLE CLAMP  
VIEW "V"

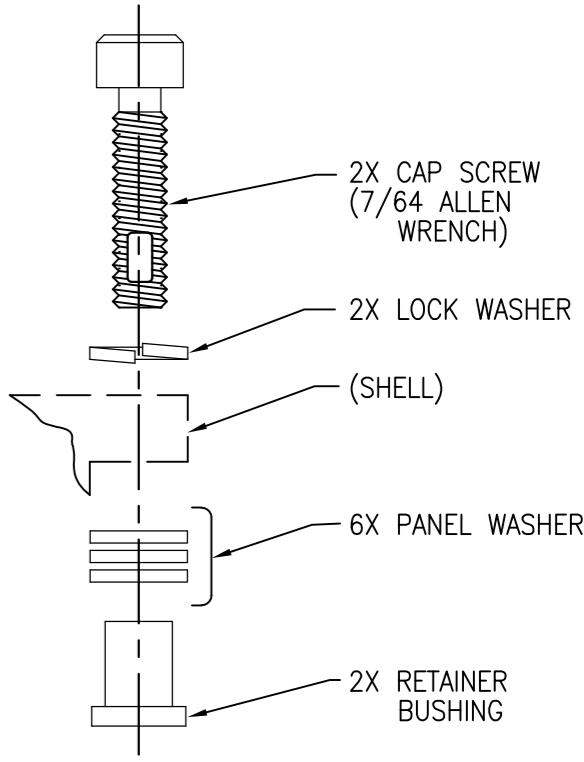


RECEPTACLE SHOWN  
(HOLE IN PLUG HAS SAME  
CONFIGURATION AND  
DIMENSION)  
0.645  
[16.38]  
HOLE CONFIGURATION FOR  
ALL "S" TYPE SHELLS AND  
FLANGED "J" TYPE RECEPTACLE SHELLS  
VIEW "Z"



APPLIES TO -014 MODIFICATION  
(see table I)

VIEW "W"



MTC50 HARDWARE  
APPLIES TO -020 MODIFICATION  
(see table I)

VIEW "Y"

TABLE III	
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
0.093/0.097 [2.3]/[2.4]	0

TABLE I (MODIFICATIONS)

MODIFICATION DASH NUMBER	DESCRIPTION
-001	SAME AS STANDARD ASSEMBLY WITH EARS EXCEPT WITHOUT CABLE CLAMPS
-007	SAME AS STANDARD ASSEMBLY EXCEPT METAL PARTS ARE PLATED CADMIUM OVER NICKEL, SUPPLIED WITH MTC50 MOUNTING/ MATING HARDWARE (SEE VIEW "Y")
-014	SAME AS STANDARD EXCEPT ADDITIONALLY TRIANGULAR KEYING PINS INCLUDED (SEE VIEW "W")
-020	SAME AS STANDARD EXCEPT SUPPLIED WITH MTC50 MOUNTING/MATING HARDWARE (SEE VIEW "Y")
-028	SAME AS STANDARD ASSEMBLY EXCEPT SUPPLIED WITHOUT HARDWARE

THIS DRAWING IS A CONTROLLED DOCUMENT.		NAME	SHELL, PLUG AND RECEPTACLE MTC100 SERIES
DIMENSIONS: INCHES [mm]	TOLERANCES UNLESS OTHERWISE SPECIFIED:		
0 PLC 1 PLC 2 PLC 3 PLC 4 PLC ANGLES	$\pm$ - $\pm$ - $\pm$ .02 [0.5] $\pm$ .005 [0.13] $\pm$ - $\pm$ -	K.HOGAN APVD K.HOGAN PRODUCT SPEC — APPLICATION SPEC — —	DINN 19DEC2013 C.C.THOMAS CHK 12-19-13 APVD 12-19-13 K.HOGAN PRODUCT SPEC — APPLICATION SPEC — —
MATERIAL	FINISH	WEIGHT	NAME SHELL, PLUG AND RECEPTACLE MTC100 SERIES
-	-	-	SIZE CAGE CODE DRAWING NO A2 00779 C=MTC100-XHX-XXX-XXX
CUSTOMER DRAWING	SCALE NTS	RESTRICTED TO	—
			REV W

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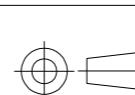
LOC	DIST	REVISIONS					
—	—	P	LTR	DESCRIPTION	DATE	DWN	APVD
				—	SEE SHEET #1	—	—

THE FOLLOWING TABLE CONSISTS OF WEIGHTS  
FOR THESE SPECIFIC PART NUMBERS.

TABLE II 	
PART NUMBER	WEIGHT MAXIMUM GRAMS
MTC100-JH1-F32	30.8
MTC100-JH1-P32	23.8
MTC100-JH1-R32	27.3
MTC100-JH2-F32	43.7
MTC100-JH2-P32	34.2
MTC100-JH2-R32	38.3
MTC100-SH1-F33	24.2 *
MTC100-SH1-P33	16.1 *
MTC100-SH1-R33	20.3 *
MTC100-SH2-F33	32.3 *
MTC100-SH2-P33	22.7 *
MTC100-SH2-R33	27.0 *

TABLE 4 	
PART NUMBER	WEIGHT MAXIMUM GRAMS
MTC100-JH1-F22	30.8
MTC100-JH1-P22	23.8
MTC100-JH1-R22	27.3
MTC100-JH2-F22	43.7
MTC100-JH2-P22	34.2
MTC100-JH2-R22	38.3
MTC100-SH1-F23	24.2 *
MTC100-SH1-P23	16.1 *
MTC100-SH1-R23	20.3 *
MTC100-SH2-F23	32.3 *
MTC100-SH2-P23	22.7 *
MTC100-SH2-R23	27.0 *

\* = WEIGHT DOES NOT INCLUDE CABLE CLAMP

THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN C.C.THOMAS CHK K.HOGAN	19DEC2013 12-19-13	NAME TE Connectivity
DIMENSIONS: INCHES [mm]	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± — 1 PLC ± — 2 PLC ± .02 [0.5] 3 PLC ± .005 [0.13] 4 PLC ± — ANGLES ± —	APVD K.HOGAN PRODUCT SPEC —	
	FINISH	APPLICATION SPEC —	SHELL, PLUG AND RECEPTACLE MTC100 SERIES
		WEIGHT —	
MATERIAL —	CUSTOMER DRAWING	SIZE A2 CAGE CODE 00779 DRAWING NO MTC100-XHX-XXX-XXX	RESTRICTED TO —
	SCALE NTS	SHEET 3 OF 3	REV W

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