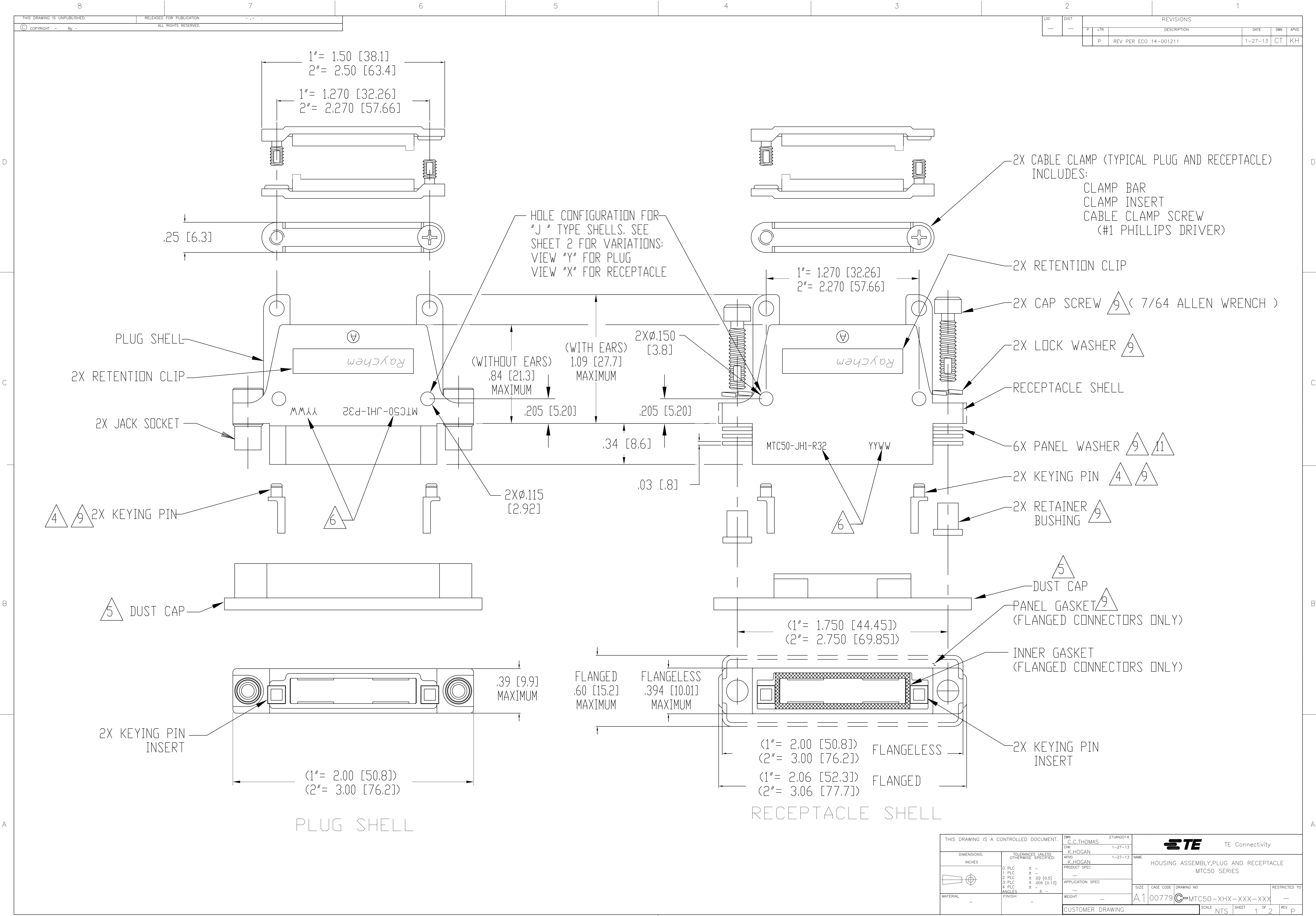




LOC		DIST		REVISIONS					
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THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN C.C.THOMAS 27JAN2014	TE Connectivity	
DIMENSIONS: INCHES		CHK K.HOGAN 1-27-13		
	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD K.HOGAN 1-27-13	NAME HOUSING ASSEMBLY, PLUG AND RECEPTACLE MTC50 SERIES	
	0. PLC ± .01	PRODUCT SPEC	SIZE A1	
	1. PLC ± .02 [0.5]	APPLICATION SPEC	CAGE CODE 00779	
	2. PLC ± .005 [0.13]	WEIGHT	DRAWING NO. MTC50-XHX-XXX-XXX	
MATERIAL		FINISH	RESTRICTED TO	
			CUSTOMER DRAWING	
			SCALE NTS	SHEET 1 OF 2
				REV P

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SEE SHEET #1

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

MTC50-XHX-XXX-XXX

MODIFICATIONS: REFER TO APPLICABLE MOD DESCRIPTION SHEET.
(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 BUT WITH EARS ON SHELL

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 FLUOROSILICONE GASKET

SHIELDED ("S" TYPE) HAS CONDUCTIVE GASKET

1= 1 INCH

2= 2 INCH

J= STANDARD

S= SHIELDED

Y= SPECIAL: 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) CAP SCREW

STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES

D) JACK SOCKET OR JACK SCREW

STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES

E) PANEL OR LOCK WASHER

STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES

F) KEYING PIN

POLYARYLENE THERMOPLASTIC, MOLDED

G) KEY PINS INSERT

POLYARYLENE THERMOPLASTIC, MOLDED

H) CLAMP BAR

STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES

J) CLAMP INSERT

SILICONE ELASTOMER PER MIL-R-25988B

K) CAPTIVE SCREW

STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES

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) CAP SCREW

PASSIVATED PER SAE-AMS-QQ-P-35

CADMIUM PLATED PER SAE-AMS-QQ-P-416

PASSIVATED PER SAE-AMS-QQ-P-35

D) JACK SOCKET OR JACK SCREW

PASSIVATED PER SAE-AMS-QQ-P-35

CADMIUM PLATED PER SAE-AMS-QQ-P-416

PASSIVATED PER SAE-AMS-QQ-P-35

E) PANEL OR LOCK WASHER

PASSIVATED PER SAE-AMS-QQ-P-35

CADMIUM PLATED PER SAE-AMS-QQ-P-416

PASSIVATED PER SAE-AMS-QQ-P-35

F) CLAMP BAR

PASSIVATED PER SAE-AMS-QQ-P-35

CADMIUM PLATED PER SAE-AMS-QQ-P-416

PASSIVATED PER SAE-AMS-QQ-P-35

G) CAPTIVE SCREW

PASSIVATED PER SAE-AMS-QQ-P-35

CADMIUM PLATED PER SAE-AMS-QQ-P-416

PASSIVATED PER SAE-AMS-QQ-P-35

4. APPLICATION INFORMATION:

A) FOR RECEPTACLE MOUNTING INFORMATION, SEE RAYCHEM DRAWING D652-0012.

B) FOR CONNECTOR KEYING CODES, SEE RAYCHEM DRAWING D-659-0080.

C) RECEPTACLE CAP SCREWS ARE TO BE TORQUED TO 15 LBF-INCH (1.7 N-m).

D) PLUG JACK SOCKETS ARE TO BE TORQUED TO 9 LBF-INCH (1.0 N-m).

5. DUST CAP SUPPLIED WITH EACH PLUG AND RECEPTACLE.

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

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

8. FLANGED RECEPTACLE CONNECTORS CORRECTLEY ASSEMBLED AND THE PLUG CONNECTOR PROPERLY ASSEMBLED AND MATEDED 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 FOR WEIGHTS. WEIGHTS SHOWN ARE WITHOUT DUST CAP.

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

EME STYLE PLUG SHELL

VIEW "Y"

EME STYLE RECEPTACLE SHELL

VIEW "X"

FLAT CABLE CLAMP

VIEW "V"

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 II

10 \ WEIGHT lbs.[gr.] MAX.

CONNECTOR SIZE

PLUG

RECEPTACLE

FLANGED

FLANGELESS

1 INCH

W/EARS

.0514 [23.315]

.0731 [33.158]

.0606 [27.488]

1 INCH

W/O EARS

.0422 [19.196]

.0555 [25.174]

.0430 [19.504]

2 INCH

W/EARS

.0765 [34.699]

.1292 [58.604]

.1021 [46.312]

2 INCH

W/O EARS

.0494 [22.407]

.0851 [38.601]

.0580 [26.308]

12. THE CORRECT MATING PART FOR A RAYCHEM MTC50 PLUG SHELL IS A RAYCHEM MTC50 RECEPTACLE SHELL. THE SPECIFIED PERFORMANCE OF THIS CONNECTOR IS BASED ON TEST PERFORMANCE WHEN ASSEMBLED WITH THE CORRECT MATING PART.

4805 (3/11)

10:53am

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DWN

C.C.THOMAS

27JAN2014

CHK

K.HOGAN

1-27-13

APVD

K.HOGAN

1-27-13

NAME

HOUSING ASSEMBLY,PLUG AND RECEPTACLE MTC50 SERIES

PRODUCT SPEC

APPLICATION SPEC

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

WEIGHT

—

A1

00779

MTC50-XHX-XXX-XXX

—

CUSTOMER DRAWING

SCALE

NTS

SHEET

2

OF

2

REV

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