

REV	DESCRIPTION	DATE	APPROVED
C	REVISE PER DCR# T-30858	5/13/2002	M. PIOZET



**NOTES:**

1. PART NUMBER VARIABLE:  
MTC50-YXX-XXX  
015 = PIN INSERT  
016 = SOCKET INSERT  
1 = 1" INSERT  
2 = 2" INSERT  
A = 'A' INSERT  
B = 'B' INSERT

2. THE APPLICABLE TYCO ELECTRONICS SPECIFICATION FOR THIS PART IS C6111. THIS PART IS QUALIFIED TO C6111.

3. MATERIAL:  
SEE SCD CTA-024X  
TRANSPARENT BLUE HEAT SHRINKABLE, RADIATION CROSS-LINKED PVF  
B. WIRE AND INSERT SEALS: MODIFIED THERMOPLASTIC HOT MELT SEALANT.  
C. INSERT BODY: HIGH GRADE POLYARYLENE THERMOPLASTIC OR EQUIVALENT.  
D. PIN/SOCKET CONTACTS: COPPER ALLOY 172 PER QQ-C-533. SEE RAYCHEM SPECIFICATION CONTROL DRAWING D-141-0169.

4. FINISH:  
A. PIN/SOCKET INSERT: AS MOLDED  
B. PIN/SOCKET CONTACT: (ENGAGING END)  
(TERMINATION END)

5. #1 POSITION IS MARKED IN CONTRASTING COLOR.  
6. DIELECTRIC WITHSTANDING VOLTAGE:

TEST CONDITION	TEST VOLTAGE VAC RMS AT 60 HZ
SEA LEVEL	750
ALTITUDE 70,000 FT. (33.5 TORR) AMBIENT TEMP	250
ALTITUDE 80,000 FT. (20.6 TORR) -50°C TEMP	375

7. CURRENT RATING: 2.0 AMPS

8. USABLE WIRE SIZE:  
ROUND WIRE: 24 AWG OR 26 AWG.

9. SEE TYCO ENGINEERING STANDARD ES-61408 REV C FOR TERMINATION METHOD.

DESCRIPTION	1" INSERT	2" INSERT
K	1.035 [26.29]	2.035 [51.69]
L	1.140 [28.96]	2.140 [54.36]
WEIGHT (MAXIMUM)	.0074 LBS. [3.357gr.]	.0147 LBS. [6.6689gr.]

**SPECIFICATION CONTROL DRAWING**

TYCO ELECTRONICS  
RAYCHEM PRODUCTS  
365 CONSTRUCTION DR  
MENLO PARK, CA 94025

TITLE  
INSERT, .050 PITCH, PASS TERM.  
125°C OPERATING TEMPERATURE  
(FOR 24-26 AWG WIRE)  
MTC50 SERIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. METRIC DIMENSIONS ARE IN BRACKETS.  
DECIMALS  
.XXX ±0.05 [0.13mm]  
.XX ±0.3 [0.08mm]  
ANGLES  
.X ± .9

DATE CODE  
RAYCHEM PART NO.

DRAWN: S CLEGG  
CALC'D: M HIGBY  
APPROVED: M BLAIR  
APPROVED: J CAMERON  
CAD FILE: T-30858.TIF

REV C  
CODE IDENT. NO. 06090  
MTC50-YXX-016  
DO NOT SCALE THIS DRAWING  
SCALE  
SHEET 1 OF 1

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