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REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
B	REVISED PER ECN T-20519	96/1/30	M.HIGGY
B1	ADMINISTRATIVE CHANGE PER ECO-11-024448	Dec/6/2011	M.HIGGY

NOTES:

1. PART NUMBER VARIABLE:

MTC50-EXX-XXX

- └ P42 = PIN INSERT, Sn96, PASS
- └ S42 = SOCKET INSERT, Sn96, PASS
- └ 1 = 1 INCH INSERT
- └ 2 = 2 INCH INSERT
- └ A = "A" INSERT
- └ B = "B" INSERT

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

3. MATERIAL:

- A. SEALING BOOT: TRANSPARENT BLUE HEAT SHRINKABLE, RADIATION CROSS-LINKED PVDF.
- B. CABLE & INSERT SEALS: MODIFIED THERMOPLASTIC HOT MELT SEALANT.
- C. INSERT BODY: HIGH GRADE POLYARYLENE THERMOPLASTIC OR EQUIVALENT.
- D. PIN/SOCKET CONTACTS: COPPER ALLOY C17200 PER ASTM B194.
- E. PRE-ASSEMBLED SolderSleeves®: SEE RAYCHEM SPECIFICATION CONTROL DRAWING D-141-0169.

4. FINISH:

- A. PIN/SOCKET INSERT: AS MOLDED
- B. PIN/SOCKET CONTACTS:
  - (ENGAGING END): GOLD PLATED PER MIL-G-45204, TYPE 1, GRADE C, CLASS 1 OVER SUITABLE UNDERPLATE.
  - (TERMINATION END): SOLDER COATED PER QQ-S-571, Sn96, FLUX COATED PER QQ-S-571, TYPE RMA.

△ POSITION IS MARKED IN CONTRASTING COLOR.

6. DIELECTRIC WITHSTANDING VOLTAGE:

TEST CONDITION (MATED)	TEST VOLTAGE VAC RMS AT 60 Hz.
SEA LEVEL	750
ALTITUDE 70,000 FT. (33.5 TORR) AMBIENT TEMP.	500
ALTITUDE 80,000 FT. (20.6 TORR) -50°C TEMP.	375

7. CURRENT RATING: 2.0 AMPS PER CONTACT.

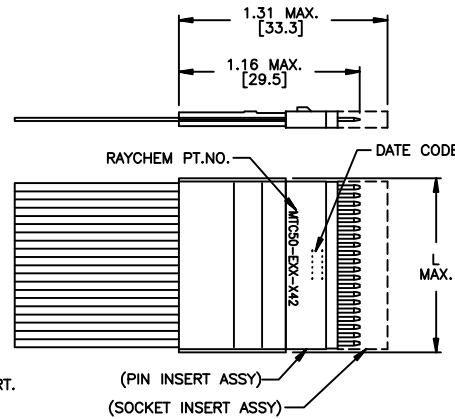
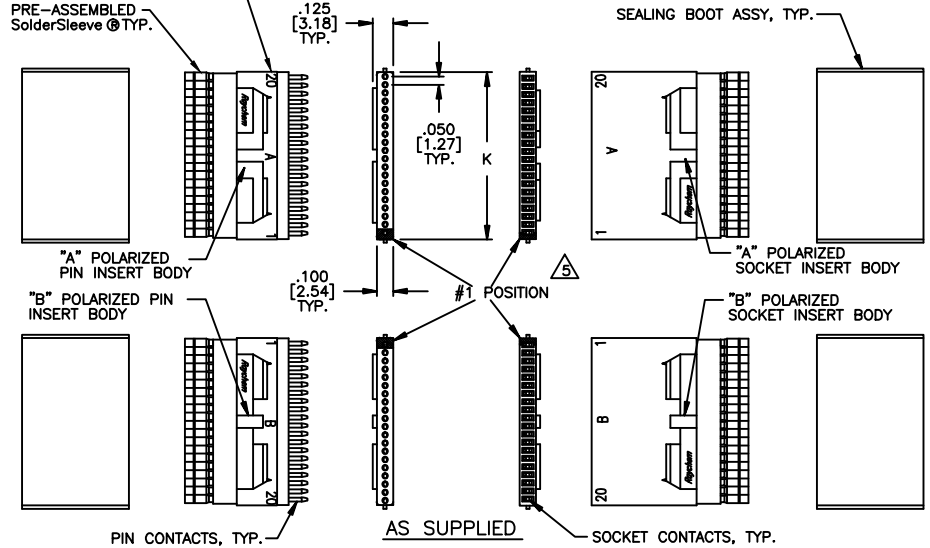
8. USABLE WIRE SIZE:

FLAT CONDUCTOR CABLE: 28 AWG

△ CONSULT FACTORY FOR RAYCHEM ENGINEERING STANDARD FOR TERMINATION METHOD.

10. THE CORRECT MATING PART FOR A RAYCHEM MTC50 PIN INSERT IS A RAYCHEM MTC50 SOCKET INSERT. THE SPECIFIED PERFORMANCE OF THIS CONNECTOR IS BASED ON TEST PERFORMANCE WHEN ASSEMBLED WITH THE CORRECT MATING PART.

#20 IS SHOWN FOR 1" INSERT.  
#40 IS SHOWN FOR 2" INSERT, TYP.



△ AFTER BOOT ASSY & TERMINATION

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. [3.357 gm]	.0147 LBS. [6.668 gm]

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Raychem MTC CUSTOMER DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. METRIC DIMENSIONS ARE IN BRACKETS.	DRAWN	MGHOBSON	90NOV29	
	CHECKED			
DECIMALS .XXX ± .005 [.13 mm] .XX ± .03 [.8 mm]	APPROVED	AKN	90DEC11	TITLE INSERT, PASS TERMINATION, Sn96, 125 CELSIUS DEGREE OPERATING TEMPERATURE, FLAT CABLE CONDUCTOR, 28 AWG, MTC50 SERIES
	APPROVED	EZ	90DEC11	
ANGLES .X ±	CAD NAME MTC50-EXX-P42/S42			SIZE C
WEIGHT lbs [ g]	THIRD ANGLE PROJECTION			CAGE CODE: 06090
		DWG. NO. MTC50-EXX-P42/S42		REV B1
		SCALE: NONE		SHEET 1 OF 1

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