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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: 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:

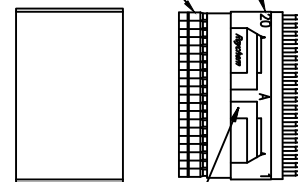
FLAT CONDUCTOR CABLE: 28 AWG

△ 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.

PRE-ASSEMBLED SolderSleeve® TYP.



"A" POLARIZED PIN INSERT BODY

"B" POLARIZED PIN INSERT BODY

PIN CONTACTS, TYP.

.125
[3.18]
TYP.

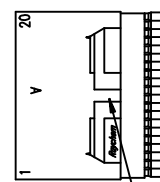
.050
[1.27]
TYP.

.100
[2.54]
TYP.

#1 POSITION

AS SUPPLIED

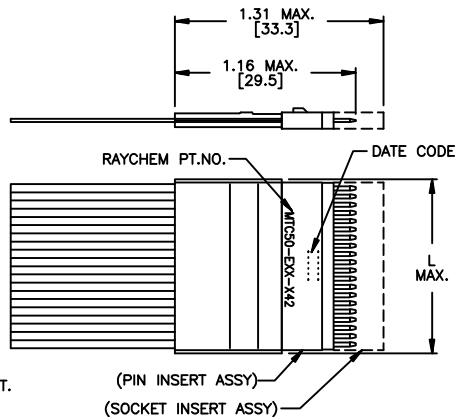
SEALING BOOT ASSY, TYP.



"A" POLARIZED SOCKET INSERT BODY

"B" POLARIZED SOCKET INSERT BODY

SOCKET CONTACTS, TYP.



(PIN INSERT ASSY)

(SOCKET INSERT ASSY)

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

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