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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:

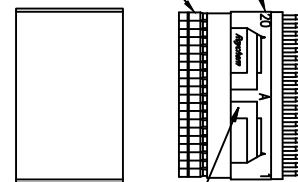
FLAT CONDUCTOR CABLE: 28 AWG

△ 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.

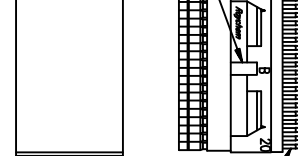
#20 IS SHOWN FOR 1" INSERT.
#40 IS SHOWN FOR 2" INSERT.
TYP.

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.

K

#1 POSITION

.100
[2.54]
TYP.

AS SUPPLIED

SEALING BOOT ASSY, TYP.

"A" POLARIZED
SOCKET INSERT BODY

"B" POLARIZED
SOCKET INSERT BODY

SOCKET CONTACTS, TYP.

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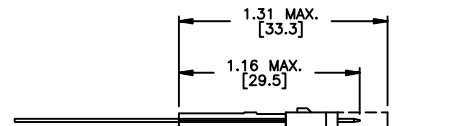
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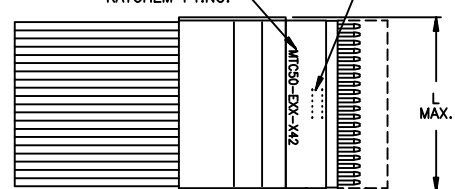
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△



RAYCHEM PT.NO.

DATE CODE



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

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[MTC50-EB2-S42](#)