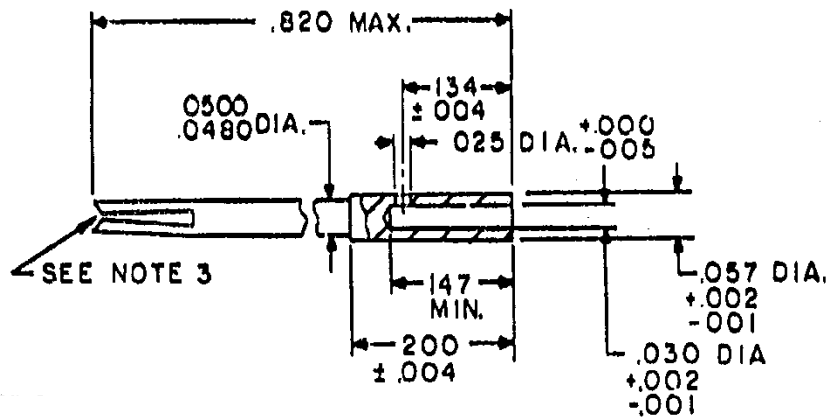


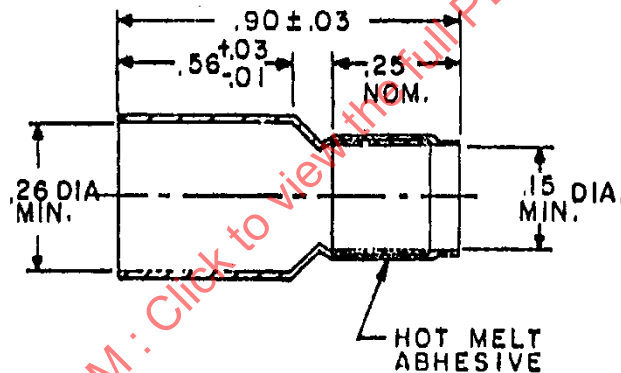


INCHES	MM
.001	0.03
.002	0.05
.004	0.10
.005	0.13
.025	0.64
.030	0.76
.0480	1.220
.0500	1.270
.057	1.45
.134	3.40
.147	3.73
.200	5.08
.820	20.83

NOTES

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY.
3. SOCKET MUST MATE WITH 0.0240+.0005 PIN. CLOSED ENTRY MAY BE PROVIDED EITHER BY AN INTEGRAL PART OF CONTACT DESIGN OR BY THE SURROUNDING DIELECTRIC MATERIAL.

FIGURE 3 - CENTER SOCKET CONTACT



INCHES	MM
.01	0.3
.03	0.8
.15	3.8
.25	6.4
.26	6.6
.56	14.2
.90	22.9

NOTES

1. DIMENSIONS ARE IN INCHES.
2. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY.

FIGURE 4 - HEAT SHRINK BOOT

REQUIREMENTS:

1. QUALIFICATION: CONTACTS SHALL COMPLY WITH RELIABILITY ASSURANCE PROVISIONS OF MIL-STD-790 AS SPECIFIED IN MIL-C-38999.
2. DESIGN AND CONSTRUCTION:

DIMENSIONS AND CONFIGURATION: SEE FIGURES 1 THROUGH 4 AND TABLE 1.

TABLE 1 - DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			CONTACT CAVITY SIZE	CABLE ACCOMMODATED	TYPE	CLASS
	1ST	2ND	3RD				
530	GREEN	ORANGE	BLACK	8	M17/176-00002	D	B

 <i>An SAE International Group</i>	AEROSPACE STANDARD		SAE AS39029/91 SHEET 3 OF 7	REV. A
	CONTACT, ELECTRICAL CONNECTOR, CONCENTRIC TWINAX, SOCKET, SHIELDED, SIZE 8			

ASSEMBLY PROCEDURE: MANUFACTURER'S RECOMMENDED ASSEMBLY INSTRUCTIONS SHALL BE SHIPPED WITH UNIT PACKAGE.

3. MATERIAL:

HEAT SHRINK BOOT: SHALL BE IN ACCORDANCE WITH MIL-I-23053/8.

4. ELECTRICAL:

LOW SIGNAL LEVEL CONTACT RESISTANCE (CENTER AND INTERMEDIATE CONTACTS ONLY): SEE TABLE 2.

CONTACT RESISTANCE: SEE TABLE 3.

FREQUENCY: 0 TO 20 MHZ (OPERATING FREQUENCY RANGE).

VOLTAGE RATING: 500 VOLTS RMS MAXIMUM; WORKING VOLTAGE AT SEA LEVEL, 125 VOLTS RMS MAXIMUM AT 70 000 FEET.

TABLE 2 - LOW SIGNAL LEVEL CONTACT RESISTANCE (CENTER AND INTERMEDIATE CONTACTS ONLY)

BIN CODE	CABLE ACCOMMODATED	MAXIMUM CONTACT RESISTANCE (MILLIOHMS)	
		INITIAL	AFTER CONDITIONING
530	M17/176-00002	55	66

TABLE 3 - CONTACT RESISTANCE

BIN CODE	CONTACT	CABLE ACCOMMODATED	TEST CURRENT (AMPERES)	MAXIMUM VOLTAGE DROP (MILLIVOLTS)		
				25 °C, +3 °C, -0 °C		+175 °C, +3 °C, -0 °C
				INITIAL	AFTER CONDITIONING	AFTER CONDITIONING
530	CENTER	M17/176-00002	1.0	55	66	94
530	INTERMEDIATE	M17/176-00002	1.0	55	66	94
5230	OUTER	M17/176-00002	12.0	75	90	128

DIELECTRIC WITHSTANDING VOLTAGE: SHALL BE AS SPECIFIED IN TABLE 4.

TABLE 4 - DIELECTRIC WITHSTANDING VOLTAGE

CONTACTS	ALTITUDE	TEST VOLTAGES AC RMS
CENTER TO INTERMEDIATE	SEA LEVEL	1000
INTERMEDIATE TO OUTER	SEA LEVEL	500

MATING CONTACT: SHALL BE IN ACCORDANCE WITH MIL-C-39039/90.

5. MECHANICAL:

CONTACT ENGAGEMENT AND SEPARATION FORCE (SOCKET CONTACTS ONLY): THE ENGAGEMENT DEPTH SHALL BE A MINIMUM OF 0.7 OF THE MINIMUM SOCKET BORED. THE TEST PINS SHALL BE IN ACCORDANCE WITH MS3197, EXCEPT THE DIAMETERS SHALL BE AS SPECIFIED IN TABLE 5. PROVISION FOR CLEARANCE HOLE ON OUTER CONTACT. TEST PINS SHALL BE PROVIDED. THE TEST PINS SHALL BE IN ACCORDANCE WITH MS3197, EXCEPT THE DIAMETERS SHALL BE AS SPECIFIED IN TABLE 5.

TABLE 5 - CONTACT ENGAGEMENT AND SEPARATION FORCE

TEST PIN DIAMETER (INCH)	MINIMUM SEPARATION FORCE (OUNCES)		MAXIMUM ENGAGEMENT FORCE (OUNCES)		MAXIMUM AVERAGE ENGAGEMENT FORCE
	INITIAL	AFTER CONDITIONING	INITIAL	AFTER CONDITIONING	
.2190 +.0000 -.0001	NA	NA	48	60	NA
.2170 +.0001 -.0000	3.0	2.0	NA	NA	NA
.0245 +.0000 -.0001	NA	NA	12	14	NA

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.0235 +.0001 -.0000	0.5	0.4	NA	NA	NA
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CRIMP TENSILE STRENGTH (CENTER, INTERMEDIATE, AND OUTER CONTACT CRIMP JOINT): SEE TABLE 6.

TABLE 6 - CRIMP TENSILE STRENGTH (AT AMBIENT)

BIN CODE	CABLE ACCOMMODATED	AXIAL LOAD (POUNDS, MINIMUM)		
		CENTER CONTACT	INTERMEDIATE CONTACT	OUTER CONTACT
530	M17/176-00002	8	8	25

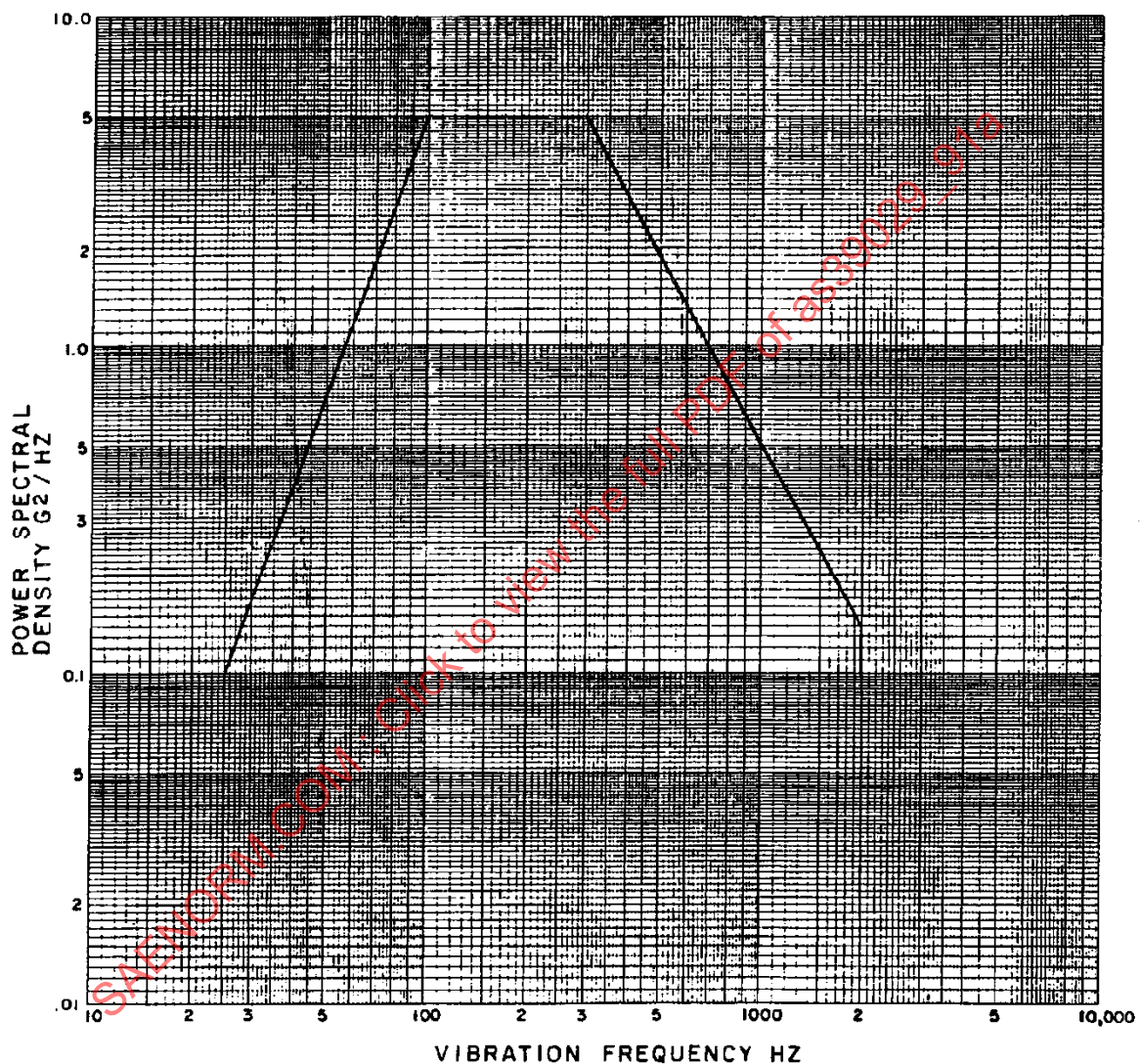


FIGURE 5 - VIBRATION ENVELOPE

6. VIBRATION: METHOD 2005 OF MIL-STD-1344, TEST CONDITION V. THE FOLLOWING DETAILS SHALL APPLY:
 - a. USE THE VIBRATION ENVELOPE SHOWN ON FIGURE 5.
 - b. VIBRATION: TO BE CONDUCTED AT STANDARD TEST CONDITIONS.
 - c. DURATION: 8 HOURS IN THE LONGITUDINAL DIRECTION AND 8 HOURS IN A PERPENDICULAR DIRECTION (16 HOURS).

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