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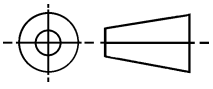

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AEROSPACE STANDARD

CONDUIT, FLEXIBLE, RADIO FREQUENCY SHIELDING

AS25064
SHEET 1 OF 5

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THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: (CID) A-A-52440.

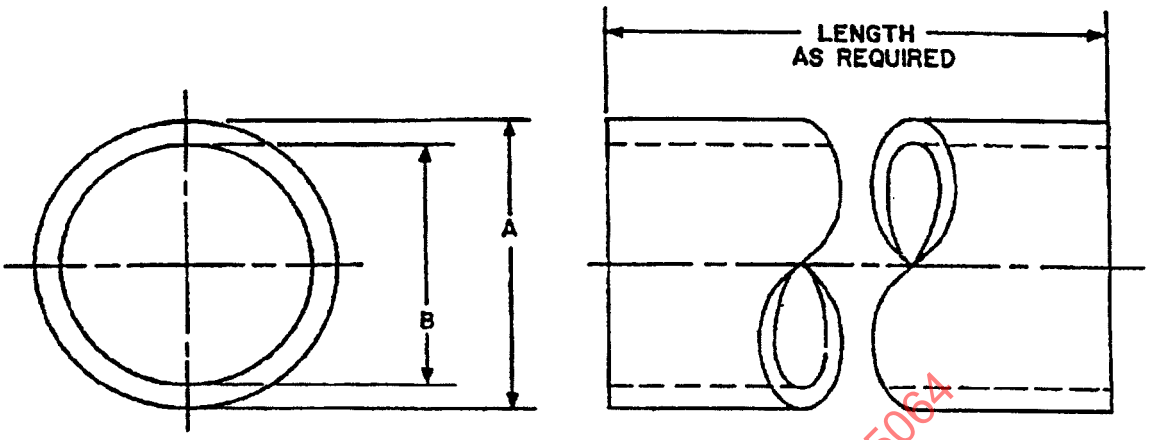

FIGURE 1. CONDUIT, FLEXIBLE, RADIO FREQUENCY SHIELDING

MS PART NO.	INSIDE DIA (NOMINAL)	A		B		BENDING RADIUS (INSIDE) MAX	WEIGHT MAX LB PER FT
		MAX	MIN	MAX	MIN		
MS25064-3	3/16	.373	.350	.188	.172	1.625	.140
MS25064-4	1/4	.435	.401	.250	.235	2.000	.180
MS25064-5	5/16	.513	.490	.328	.313	2.000	.205
MS25064-8	3/8	.560	.538	.375	.360	2.125	.242
MS25064-10	5/8	.833	.810	.625	.610	2.500	.406
MS25064-12	3/4	.958	.935	.750	.745	3.000	.457
MS25064-16	1	1.256	1.236	1.000	.985	3.875	.710
MS25064-18	1-1/8	1.411	1.387	1.156	1.141	5.125	.820
MS25064-22	1-3/8	1.688	1.658	1.375	1.360	5.625	.950

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NOTES:

1. DIMENSIONS IN INCHES.
2. FOR CONDUIT ASSEMBLY SEE DRAWING MS25067.

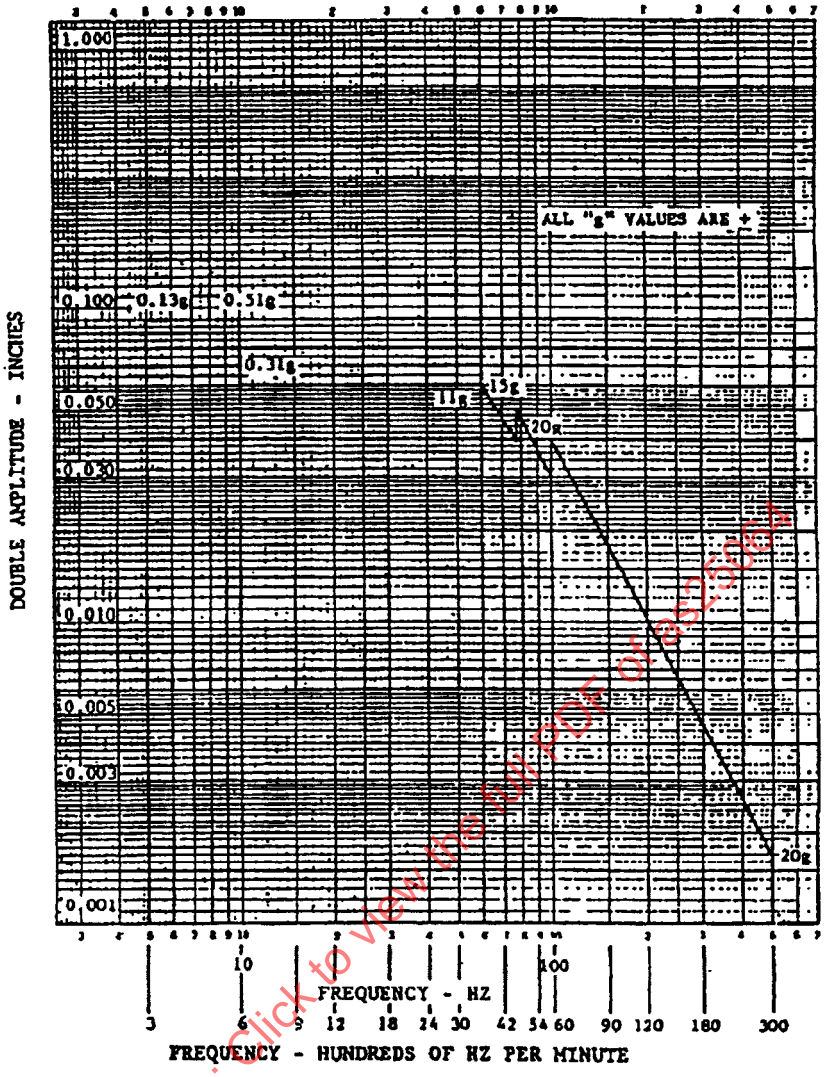

FIGURE 2. RANGE CURVES FOR VIBRATION TESTS

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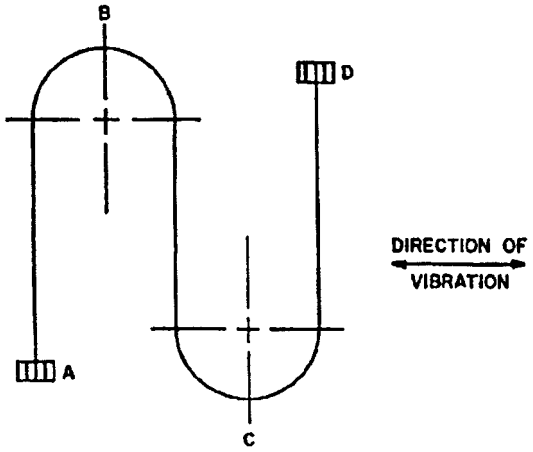

CONDUIT AND FERRULES CLAMPED TO VIBRATION STAND AT POINTS A, B, C, AND D.

FIGURE 3. VIBRATION ENDURANCE TEST SETUP

APPLICABLE DOCUMENTS:

MIL-I-6051	ELECTROMAGNETIC COMPATIBILITY REQUIREMENTS, SYSTEMS
MS25065	FERRULE, FLEXIBLE CONDUIT, RADIO FREQUENCY SHIELDING
MS25066	NUT, FLEXIBLE CONDUIT, RADIO FREQUENCY SHIELDING
MS25067	CONDUIT ASSEMBLY, FLEXIBLE, RADIO FREQUENCY SHIELDING

REQUIREMENTS

1. IN ADDITION TO THE REQUIREMENTS OF A-A-52440 (CID=COMMERCIAL ITEM DESCRITION), THE FOLLOWING REQUIREMENTS FORM A PART OF THIS MILITARY SPECIFICATION SHEET:

   a. RADIATED INTERFERENCE. THE SHIELDING PROPERTIES TEST OF THE CONDUIT SHALL BE CONDUCTED IN ACCORDANCE WITH THE TEST REQUIREMENTS FOR RADIATED INTERFERENCE LIMITS OUTLINED IN MIL-I-6051. A 10-FOOT LENGTH OF CONDUIT, HAVING A MS25065 FERRULE AND A MS25066 NUT ASSEMBLED ON EACH END, SHALL BE INSERTED IN A SIMULATED ENGINE TEST SETUP. THE TEST SHALL CONSIST OF REPEATEDLY FIRING A SHIELDED SPARK PLUG WITH THE CONDUIT IN THE HIGH-TENSION SIDE OF THE SETUP. THE SPARK PLUG SHALL BE OPERATED IN A PRESSURE BOMB UNDER A SPARK PLUG SETTING AND BOMB PRESSURE APPROXIMATING THAT NORMALLY ENCOUNTERED IN AN ENGINE. THE MAGNETO USED SHALL BE A BENDIX-SCINTILLA MODEL NO. DF18LN, OR EQUAL, AND SHALL BE SUITABLY SHIELDED. THE CONDUIT SHALL BE CAPABLE OF SATISFACTORILY LIMITING ANY RADIATED INTERFERENCE TO WITHIN THE LIMITS SPECIFIED.

   b. VIBRATION ENDURANCE. THE VIBRATION APPARATUS SHALL CONSIST OF A SUITABLE DEVICE FOR MOUNTING AND VIBRATING THE CONDUIT ASSEMBLY THROUGH THE FOLLOWING RANGES:

      (a) 0.100-INCH DOUBLE AMPLITUDE (TOTAL EXCURSION) FROM 5 TO 10 HZ.
      (b) 0.060-INCH DOUBLE AMPLITUDE FROM 10 TO 60 HZ.
      (c) ±11g VIBRATORY ACCELERATION FROM 60 TO 75 HZ.
      (d) ±15g VIBRATORY ACCELERATION FROM 75 TO 100 HZ.
      (e) ±20g VIBRATORY ACCELERATION FROM 100 TO 500 HZ.

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