

INCH - POUND

MIL-PRF-26542E
AMENDMENT 3
16 July 2002
SUPERSEDING
AMENDMENT 2
20 January 1999

PERFORMANCE SPECIFICATION

MICROPHONE, AND MICROPHONE ASSEMBLIES, DYNAMIC GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-PRF-26542E, dated 30 May 1997 and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

*Beneficial Comments: Delete and substitute:

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to Defense Supply Center, Columbus, Post Office Box 3990, Columbus, OH 43216-5000. By using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

“

PAGE 2

*2.2.1: Delete “MIL-C-22442” and substitute the following:

“MIL-DTL-22442 – Cable assemblies, Aircraft Audio, General Specification For.”

*Add the following Handbook:

“HANDBOOK

MIL-HDBK-454 - General Guidelines for Electronic Equipment.”

*Source statement: Delete and substitute:

“(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Document Automation & Production Service, Detachment Office, Building 4D, Customer Service, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)”

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*2.3: Delete "ANSI S1.10-1966" and substitute the following:

"ANSI S1.10-1966 – Method for the Calibration of Microphones.

"(Application for copies should be addressed to the American National Standards Institute, 11 West 42nd Street, 13th Floor, New York, NY 10036.)"

PAGE 3

*Delete "MMPA 0101" and substitute the following:

"MMPA 0100-00 - Standard Specification for Permanent Magnet Materials.

"(Application for copies should be addressed to Magnetic Materials Producers Association, 8 South Michigan Avenue, Suite 1000, Chicago, IL 60603.)"

*3.3.3: Delete and substitute:

"3.3.3 Magnetic material. The magnetic material may be in accordance with MMPA 0100-00."

PAGE 4

3.4.5: Delete and substitute:

"3.4.5 Cable assemblies. Unless otherwise specified (see 3.1), cord assemblies are to meet either of the two following requirements to insure a quality interfacing product.

- a. The use of QPL cord assemblies referenced in military specification MIL-DTL-22442.
- b. Verification and approval by the qualifying activity of meeting the technical requirement of military specification MIL-DTL-22442.

NOTE: Both of the above methods require qualification of the entire specification product to the applicable qualification requirements."

3.5.7.1: Delete and substitute:

"3.5.7.1 Noise cancellation characteristics (see 4.5.5.1). The noise cancellation characteristics of the microphone shall be such that the "average difference curve" and the peaks of the "difference curve A" and "difference curve B", derived from the frequency response characteristics of the microphone to a "close" and "distant" sound source as specified herein, shall fall within an envelope having a slope of not less than 6 dB per octave falling between 200 Hz and 4,000 Hz. The "difference curve A" and the "difference curve B" may go through the envelope on the lower side but shall not go through the envelope on the top side. The centerline of the envelope shall intersect the zero axis between 5,000 Hz and 8,000 Hz."

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PAGES 5, 6, 7

*3.5.14 thru 3.5.22, Sensitivity and frequency response: Delete "No more than ± 3 dB variation at any frequency." and substitute: "No more than ± 3 dB variation at any frequency, when referenced to the initial response."

PAGE 9

*4.3.4, first sentence: Delete and substitute:

"Every 12 months, the manufacturer shall provide verification of qualification to the qualifying activity."

PAGE 11

*TABLE II: Delete and substitute:

TABLE II. Group A and Group B sampling plans.

Lot Size	Sample size	
	Group A	Group B
2 to 8	1/	2
9 to 13	1/	3
14 to 25	13	3
26 to 50	13	5
51 to 90	13	6
91 to 150	13	7
151 to 280	20	10
281 to 500	29	11
501 to 1,200	34	15
1,201 to 3,200	42	18
3,201 to 10,000	50	22
10,001 to 35,000	60	29

1/ Indicates entire lot must be inspected.

PAGE 19

4.5.10: Delete sub-paragraph "c" and substitute:

"c. Points of application: Between one terminal and the external surface of the microphone case with the use of a metal bracket or equivalent provided by the manufacturer."

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*4.5.13: Delete subparagraphs and substitute:

- "a. The number of 48-hour cycles for this test is 5 (five)
- "b. The temperature/humidity levels shall be 60°C and 95% respectively.
- "c. Measurements after test: Within 1 hour after the test, the frequency response at ground level shall be measured and the impedance at 1,000 Hz shall be determined; the microphone may then be examined for evidence of damage."

PAGE 21

*4.5.23: Delete the first paragraph and substitute:

"4.5.23 Fungus (see 3.5.25). The contractor may use Guideline 4 – Fungus-Inert Materials within MIL-HDBK-454, to certify that the materials used meet the requirements for fungus-inert materials or test the materials used in accordance with the requirements of method 508 of MIL-STD-810. The following details shall apply:

PAGE 22

*6.1: Delete and substitute:

"6.1 Intended use. Microphones are intended to be used as specified (see 3.1). The sensitivity requirements for these products were developed in conjunction with the Air Force Material Command, Human Effectiveness Directorate, Air Force Research Laboratory, Aural Displays & BioAcoustics (AFRL/HECB), Wright-Patterson AFB, OH."

PAGE 23

*6.3: Delete the last sentence and substitute the following:

"Information pertaining to qualification of products may be obtained from DSCC-VQP, P.O. Box 3990, Columbus, Ohio 43216-5000."

NOTE: The margins of this amendment are marked with an asterisk to indicate where changes from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the margin notations and relationship to the last previous amendment.

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CONCLUDING MATERIAL

Custodians:

Army - CR

Navy - EC

Air Force - 11

DLA - CC

Preparing activity:

DLA - CC

(Project 5965-0350)

Review activities:

Army - AR, AT, AV, CR4

Navy - AS, OS

Air Force - 99