

MILITARY SPECIFICATION
HEADSET-MICROPHONE AND HEADSET-ELECTRICAL
(MEDIUM NOISE ATTENUATION, HEARING PROTECTIVE)
GENERAL SPECIFICATION FOR

This amendment forms part of Military Specification MIL-H-83511, dated 04 April 1978,
and is approved by all Departments and Agencies of the Department of Defense.

PAGE 1

2. APPLICABLE DOCUMENTS: delete entirely and substitute:

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-J-641/8	-	JACK, TELEPHONE, TYPE JJ-055.
MIL-J-641/22	-	JACK, TELEPHONE, U-385/U.
MIL-P-642/7	-	PLUGS, TELEPHONE (TYPE PJ-292) AND ACCESSORY SCREWS.
MIL-P-642/14	-	PLUG, TELEPHONE (TYPE U-384/U) 5 CONDUCTOR, SINGLE.
MIL-I-4997	-	INSULATING AND JACKETING COMPOUNDS FOR USE IN CORDS, CORDAGES, AND CABLES.
MIL-E-5400	-	ELECTRONIC EQUIPMENT, AEROSPACE, GENERAL SPECIFICATION FOR
MIL-F-14072	-	FINISHES FOR GROUND BASED ELECTRONIC EQUIPMENT.
MIL-A-23595	-	AMPLIFIER, AUDIO FREQUENCY AM-3597C/A and AM-4326B/A.
MIL-A-23899	-	AURAL PROTECTOR, SOUND.
MIL-PRF-25670	-	EARPHONE ELEMENTS, GENERAL SPECIFICATION FOR
MIL-PRF-26542/1	-	MICROPHONE AND MICROPHONE ASSEMBLY, M26542/1-01, M26542/1-02. (M26542/1-01)
MIL-PRF-26542/2	-	MICROPHONE AND MICROPHONE ASSEMBLIES, M87/AIC, M26542/2-01, M26542/2-02, M26542/2-03, AND M26542/2-04.(87/AIC)
MIL-PRF-26542/10	-	MICROPHONE ASSEMBLY, M-138/G.
MIL-C-55116	-	CONNECTORS; MINIATURE AUDIO, FIVE PIN AND SIX PIN, GENERAL SPECIFICATION FOR. (FIVE PIN)
MIL-H-55535	-	HEADSET-MICROPHONE KIT MK-1039/G.

AMSC N/A
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

FSC 5965

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MIL-C-55668 - CORD, ELECTRICAL; AUDIO, SUBMINIATURE (RETRACTILE AND STRAIGHT).

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Defense Automated Printing Service, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094).

2.2.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DRAWINGS

DEPARTMENT OF THE ARMY

SM-B-933877 - RECEIVER (EARPHONE).
SM-B-933861 - CONNECTOR, PLUG.
SM-D-937438 - CORD, ASSEMBLY, ELECTRICAL, BRANCHED.
SM-C-430302 - SWITCH HOUSING ASSY.

(Copies of the above drawings are available from US Army Communications - Electronics Command, Fort Monmouth, NJ 07703).

58C12687 - MICROPHONE, DYNAMIC - M-87/AIC, ASSEMBLY OF.
67B1854 - SUPPORT - MICROPHONE, ASSEMBLY OF.

(Copies of the above drawings are available from Air Force Logistics Command, Wright-Patterson AFB, Dayton, OH 45433).

2.3 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DoDISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS are the issues of the documents cited in the solicitation (see 6.2).

STANDARDS

INTERNATIONAL ORGANIZATION for STANDARDS

ISO 10012-1 - Quality Assurance Requirements For Measuring Equipment Part 1: Metrological Confirmation System for Measuring Equipment.

AMERICAN NATIONAL STANDARDS INSTITUTE

ANSI/NCSL Z540-1 - General Requirements for Calibration Laboratories and Measuring and Test Equipment.
J-STD-004 - Requirements for Soldering Flux.
J-STD-005 - Requirements for Soldering Pastes.
J-STD-006 - Requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for Electronic Soldering Applications.
S3.5 - Methods for the Calculation of the Articulation Index.+-

(Application for copies of the above documents should be addressed to the American National Standards Institute (ANSI), 11 West 42nd. Street, New York, NY 10036).

2.4 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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PAGE 3

3.4.2: Delete and substitute:

"3.4.2 Temper foam. Foam filler for the ear-cushion shall be inert polyester or polyether material of medium density."

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3.5.4.4: Add the following sentence at the end of the paragraph:

"An alternate method of positioning is positive locking by tightening a thumbnut. (see 3.1)"

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FIGURE 10: Change length of cable to plug from "10.00" to "10.00 or 24.00 (see 3.1)"

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3.5.7.1 (continued): sub-paragraph "d." Delete and substitute:

"d. Main cord - Terminus of the three cords above. This cord shall provide input/output circuits to connector U-384/U, per MILP-642/14, and mate with a connector U-385/U, per MIL-J-641/22."

3.5.7.2: Delete: "MIL-T-81642" and substitute: "MIL-P-642/14".

3.5.9.1: At end of paragraph after: "13" add the following: "(as required see 3.1)."

3.5.9.2: At end of paragraph after the word: "...specified" change to the following: "(see figure 14) and Air Force drawing 66B870. (as required see 3.1)."

Add new sub-paragraph:

"3.5.9.2.1: Microphone boom bracket (Alternate method). The boom support assembly is mounted directly to the Earcup with the same action for microphone. (as required see 3.1)

3.5.9.3: Delete Table I and substitute as follows:

TABLE I. Microphone boom.

Headset-microphone	Boom drawing	Specification
H-157A/AIC	Figures 12, 13 & 14	MIL-H-83511/2 and MIL-PRF-26542/2
H-161F/GR	Figures 12, 13 & 14	MIL-H-83511/4 and MIL-PRF-26542/10
H-172A/AIC	Figures 12, 13 & 14	MIL-H-83511/5 and MIL-PRF-26542/2

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3.6.3.3: After "4.8.4.3," Delete the following starting with: "the assembly..." and substitute the following: "and the thumbnut loosened, the headset shall have a smooth, push fit on the rod. When the thumbnut is tightened, the assembly should be stationary."

3.6.3.13: after "Speech intelligibility." Add: "(when specified, see 3.1)".

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Add as a new paragraph:

"3.8 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs."

3.8 Workmanship.: Renumber to "3.9"

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PAGE 25 (continued)

4: Title: Delete "QUALITY ASSURANCE PROVISIONS" and substitute; "VERIFICATION"

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4.3: In TABLE III delete the following: "Polyurethane foam", "3.4.2", and "MIL-P-26514"

4.5: Delete Table IV and substitute as follows:

"TABLE IV Components Inspection.

COMPONENT	REQUIREMENTS	APPLICABLE SPECIFICATION
Earphones		
SM-B-933877	MIL-H-83511/1, /4	SM-B-933877
H-143/AIC	MIL-H-83511/2, /3, /6	MIL-PRF-25670
R-10357	MIL-H-83511/5	MIL-H-83511
Microphones		
M-87/AIC	MIL-H-83511/2, /5	MIL-PRF-26542/2
M-138/G	MIL-H-83511/4	MIL-PRF-26542/10
Connectors, Jacks and Plugs		
JJ-055	MIL-H-83511/1, /2, /3, /4, /5, /6	MIL-J-641/8; (U-172/U, NEXUS Equiv.)
PJ-292	MIL-H-83511/2, /5	MIL-P-642/7; (U-173/U, NEXUS Equiv.)
U-229/U	MIL-H-83511/1, /4	MIL-C-55116
10-109614-5P	MIL-H-83511/4	Amphenol Data
U-384/U	MIL-H-83511/5, /6	MIL-P-642/14
U-385/U	MIL-H-83511/5, /6	MIL-J-641/22

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TABLE V: Under Groups III and IV, after "Speech intelligibility"; add: "(when specified, see 3.1)".

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4.7.1.2.1: Delete and substitute:

"4.7.1.2.1 Sampling plan. Accept on zero, for general inspection level II, as specified in table VI-1. The defects for the visual and mechanical examinations are specified in table VIII."

TABLE VI: Delete: "4th. and 5th. columns" entirely related to "AQL (percent defective)".

Add a new table VI-1.

"TABLE VI-1. Sampling plan.

LOT SIZE	SAMPLE SIZE
2 to 8	1/
9 to 15	13
16 to 25	13
26 to 50	13
51 to 90	13
91 to 150	13
151 to 280	20
281 to 500	29
501 to 1200	34
1201 to 3200	42

1/ Indicates entire lot must be inspected.

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4.8.4.3: In the second sentence on the third line, between "...in the compressed position," "...and the force required" add the following: "thumbnut tightened"

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5: Delete and substitute:

"5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity."

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5965-0276)