

MILITARY SPECIFICATION
HANDSETS
GENERAL SPECIFICATION FOR

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the requirements for handsets (see 3.1, 6.1, and 6.4).

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

SPECIFICATIONS

FEDERAL

- NN-P-71 - Pallets, Materials Handling, Wood, Double Faced, Stringer Construction.
- QQ-S-571 - Solder, Tin Alloy; Tin-Lead Alloy; and Lead Alloy.
- QQ-S-781 - Strapping, Steel, Flat and Seals.
- PPP-B-566 - Boxes, Folding, Paperboard.
- PPP-B-585 - Boxes, Wood, Wirebound.
- PPP-B-601 - Boxes, Wood, Cleated-Plywood.
- PPP-B-621 - Boxes, Wood, Nailed and Lock-Corner.
- PPP-B-636 - Boxes, Shipping, Fiberboard.
- PPP-B-676 - Boxes, Set-up.
- PPP-T-60 - Tape: Packaging, Waterproof.
- PPP-T-76 - Tape, Pressure-Sensitive Adhesive Paper, (For Carton Sealing).

MILITARY

- MIL-P-116 - Preservation-Packaging, Methods of.
- MIL-T-152 - Treatment, Moisture and Fungus-Resistant, of Communications, Electronic, and Associated Electrical Equipment.
- MIL-V-173 - Varnish, Moisture- and - Fungus - Resistant (For the Treatment of Communications, Electronic, and Associated Electrical Equipment).
- MIL-W-583 - Wire, Magnet, Electrical.
- MIL-P-642 - Plugs, Telephone, and Accessory Screws; General Specification for.
- MIL-M-13189 - Microphone Elements, Carbon and Earphone Elements, Magnetic (For Telephone and Radio Use).
- MIL-F-14072 - Finishes for Ground Signal Equipment.
- MIL-C-45662 - Calibration System Requirements

(See Supplement 1 for list of associated specification sheets.)

MIL-H-13253D

STANDARDS

MILITARY

- MIL-STD-105 - Sampling Procedure and Tables for Inspection by Attributes.
- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-130 - Identification Marking of U.S. Military Property.
- MIL-STD-147 - Palletized Unit Loads on 40" x 48" Pallets.
- MIL-STD-202 - Test Methods for Electronic and Electrical Components Parts.
- MIL-STD-454 - Standard General Requirements for Electronic Equipment.

DRAWINGS

DEPARTMENT OF THE ARMY

- SC-D-1041 - Cord CC-333.
- SC-D-1055 - Handset Switch, Assembly and Details.
- SC-B-14423 - S-hook Assembly.
- SC-D-22545 - Handle, Handset Assembly.
- SC-C-22546 - Cap, Receiver (Plastic).
- SC-C-22547 - Cap, Transmitter (Plastic).
- SC-B-22556 - Transmitter.
- SC-DL-34036 - Connector Plug U-161()/U.
- SC-D-60464 - Cord Assembly Electrical.
- SC-DL-76644 - Cord CD-494().
- SC-C-101109, - Cord Assembly Tinsel, Retractable.
Group I
- SC-C-105975 - Switch Assembly.
- SC-B-105976 - Receiver.
- SC-D-105992 - Handset Assembly.

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

- No. 219 - Loudspeaker Measurements, Recommended Practice for.
(ANSI S1.5-1963).

(Application for copies should be addressed to the Institute of Electrical and Electronic Engineers Standard Sales, 345 East 47th Street, New York, New York 10017.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

3. REQUIREMENTS

3.1 Specification sheets. The individual item requirements shall be as specified herein and in accordance with the applicable specification sheets. In the event of any conflict between requirements of this specification and the specification sheets, the latter shall govern (see 6.2).

3.2 First article. Handsets furnished under this specification shall be products which have been tested and have passed the first article inspection specified in 4.5.

3.3 Materials. Materials shall be as specified herein. However, when a definite material is not specified, a material shall be used which will enable the handsets to meet the performance requirements of this specification. Acceptance or approval of any constituent material shall not be construed as a guaranty of the acceptance of the finished product.

3.3.1 Fungus-resistant materials. Handsets shall be made of fungus-resistant materials as specified in requirement 4 of MIL-STD-454, or shall be treated to resist fungus growth as specified in MIL-T-152, type II.

3.3.2 Solder. Solder shall conform to composition Sn60 of QQ-S-571.

3.4 Design and construction.

3.4.1 Wire, magnet. Magnet wire shall conform to MIL-W-583.

3.4.2 Finish. The equipment shall be finished in accordance with MIL-F-14072 and the equipment drawings.

3.4.3 Connections. Soldering leads, lugs, and terminals shall be tinned, silver-plated, or lead-alloy coated. Wires subject to breakage at the connections shall be provided with terminals that grip the wire insulation. Solderless terminals may be used on tinned, standard wire in power or audio circuits, but other wire connections shall be soldered. Where practicable, wire soldered to terminals shall be looped at least once and not more than twice around the terminals before soldering, or equivalent means shall be employed. Textile insulation ends of wires shall be secured against fraying by mechanical means or by application of varnish conforming to MIL-V-173.

3.4.4 Earphone elements. The earphone elements shall have been tested to and shall have met the first article and quality conformance requirements of MIL-M-13189.

3.4.5 Microphone elements. The microphone elements shall have been tested to and shall have met the first article and quality conformance requirements of MIL-M-13189.

3.4.6 Switch assembly. The switch shall conform to the specified drawing (see 3.1).

3.4.7 Cord assembly. The cord and cord assembly shall conform to the specified drawing (see 3.1).

3.4.8 S-hook assembly (when applicable). The S-hook assembly shall conform to the specified drawing (see 3.1).

3.4.9 Receiver. The receiver shall conform to the specified drawing (see 3.1).

3.4.10 Transmitter. The transmitter, transmitter cap, and receiver cap shall conform to the specified drawing (see 3.1).

3.4.11 Plugs. The plugs shall be as specified (see 3.1).

3.4.12 Handle. The handle shall conform to the specified drawing (see 3.1).

3.4.13 Screws. Screws shall be as specified (see 3.1).

3.4.14 Wire. The wire shall conform to the specified drawing (see 3.1).

3.4.15 Terminal. The terminal shall conform to the specified drawing (see 3.1).

3.5 Dielectric withstanding voltage. When tested as specified in 4.7.2, there shall be no evidence of degradation in performance of the handsets. There shall be no arcing or breakdown of the insulation.

3.6 Impedance (earphone). When tested as specified in 4.7.3, the impedance of the magnetic earphone shall be as specified (see 3.1).

3.7 Resistance (microphone). When tested as specified in 4.7.4, the resistance shall be 28 ± 1.4 ohms.

3.8 Operational (talk). When handsets are tested as specified in 4.7.5, there shall be no buzzing, rattling, or other spurious sounds. There shall be transmission of an intelligible signal.

3.9 Vibration. When handsets are tested as specified in 4.7.6, there shall be no evidence of cracking, loosening of parts, or physical or electrical defects to the handset. Following the test, the earphones shall meet the frequency response requirements of MIL-M-13189.

3.10 Moisture resistance. When handsets are tested as specified in 4.7.7, the handset shall operate in any relative humidity up to 98 percent without evidence of warpage or other damage. Corrosion if present, shall not be sufficient to interfere with proper operation. Following the test, the earphones shall meet the frequency response requirements of MIL-M-13189.

3.11 Random drop. When handsets are tested as specified in 4.7.8, there shall be no evidence of breaking, cracking, or other physical or electrical damage to the handset. Following the test, the earphones shall meet the frequency response requirements of MIL-M-13189.

3.12 Temperature cycling. When handsets are tested as specified in 4.7.9, there shall be no evidence of warping or mechanical damage. Following the test, the earphones shall meet the requirements of frequency response as specified in MIL-M-13189.

3.13 Switches (when applicable). When handsets are tested as specified in 4.7.10, there shall be no evidence of physical damage, electrical defects or degradation in performance.

3.14 Marking. Handsets shall be marked in accordance with MIL-STD-130, with the type number and the manufacturer's name or symbol, and as specified (see 3.1).

3.15 Workmanship. Handsets shall be processed in such a manner as to be uniform in quality and shall be free from loose or deposited foreign materials, and other defects that will affect life, serviceability, or appearance.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.1.1 Test equipment and inspection facilities. Test and measuring equipment and inspection facilities of sufficient accuracy, quality, and quantity to permit performance of the required inspection shall be established and maintained by the supplier. The establishment and maintenance of a calibration system to control the accuracy of the measuring and test equipment shall be in accordance with MIL-C-45662.

4.2 Classification of inspections. The inspections specified herein are classified as follows:

- (a) Components inspection (see 4.3).
- (b) First article inspection (see 4.5).
- (c) Quality conformance inspection (see 4.6).

4.3 Components inspection. Components inspection shall consist of certification supported by verifying inspection and test data, when applicable, that the components listed in table I used in fabricating the handsets are in accordance with the applicable referenced document.

4.4 Inspection conditions.

4.4.1 Conditions. Unless otherwise specified herein, all inspections shall be performed in accordance with the test conditions specified in the "GENERAL REQUIREMENTS" of MIL-STD-202. All acoustical testing except operational testing shall be made in an anechoic chamber which is the equivalent to the free field acoustic environment per IEEE Standard 219.

TABLE I. Components inspection.

Components	Requirement paragraphs	Applicable documents
Earphone elements	3.4.4	MIL-M-13189
Microphone elements	3.4.5	MIL-M-13189
Switch assembly	3.4.6	{ SC-D-1055 SC-C-105975 SC-D-105992
Cord assembly	3.4.7	{ SC-D-1041 SC-D-60464 SC-DL-76644 SC-C-101109
S-hook assembly	3.4.8	SC-B-14423
Receiver	3.4.9	SC-B-105976
Transmitter	3.4.10	SC-B-22556
Cap transmitter	3.4.10	SC-C-22547
Cap receiver	3.4.10	SC-C-22546
Plugs	3.4.11	{ MIL-P-642 SC-DL-34036
Handle	3.4.12	{ SC-D-22545 SC-D-105992

4.5 First article inspection (see 3.2). First article inspection shall be performed by the supplier, after award of contract and prior to production, at a location acceptable to the Government. First article inspection shall be performed on sample units which have been produced with equipment and procedures normally used in production. First article approval is valid only on the contract or purchase order under which it is granted, unless extended by the Government to other contracts or purchase orders.

4.5.1 Sample size. Nine handsets shall be subjected to first article inspection.

4.5.2 Inspection routine. The sample shall be subjected to the inspections specified in table II, in the order shown. All sample units shall be subjected to the inspections of group I. The sample shall then be divided equally into three groups and subjected to the inspections for their particular group.

4.5.3 Failures. More than one failure in group I and any failure in group II, III, or IV shall be cause for refusal to grant first article approval.

TABLE II. First article inspection.

Examination or test	Requirement paragraphs	Method paragraph
<u>Group I</u>		
Visual and mechanical - - - - -	3.3, 3.4.1 thru 3.4.15 incl, 3.14 and 3.15	4.7.1
Dielectric withstanding voltage - - - -	3.5	4.7.2
Frequency response ^{1/} - - - - -		
Earphone - - - - -	3.4.4	---
Microphone - - - - -	3.4.5	---
Impedance (earphone) - - - - -	3.6	4.7.3
Resistance (microphone) - - - - -	3.7	4.7.4
Operational (talk) - - - - -	3.8	4.7.5
<u>Group II</u>		
Vibration ^{1/} - - - - -	3.9	4.7.6
Moisture resistance ^{1/} - - - - -	3.10	4.7.7
<u>Group III</u>		
Random drop ^{1/} - - - - -	3.11	4.7.8
Temperature cycling ^{1/} - - - - -	3.12	4.7.9
<u>Group IV</u>		
Switch test - - - - -	3.13	4.7.10

^{1/} Earphones and microphones shall meet the requirements of MIL-M-13189 after subjection to environmental tests.

4.6 Quality conformance inspection.

4.6.1 Inspection of product for delivery. Inspection of product for delivery shall consist of groups A and B inspections. Except as specified in 4.6.1.4.4, delivery of products which have passed groups A and B inspections shall not be delayed pending the results of group C inspection.

4.6.1.1 Inspection lot. An inspection lot shall consist of all handsets of the same type, produced under essentially the same conditions, and offered for inspection at one time.

4.6.1.2 Group A inspection. Group A inspection shall consist of the examination and tests specified in table III, in the order shown.

4.6.1.2.1 Sampling plan. Statistical sampling and inspection shall be in accordance with MIL-STD-105 for general inspection level II. The acceptable quality level (AQL) shall be as specified in table III. Major and minor defects shall be as defined in MIL-STD-105.

TABLE III. Group A inspection.

Examination or test	Requirement paragraph	Method paragraph	AQL (percent defective)	
			Major	Minor
Visual and mechanical - - - - -	3.3, 3.4.1 thru 3.4.15 incl, 3.14 and 3.15	4.7.1	1.0	4.0
Dielectric withstanding voltage - - - -	3.5	4.7.2	1.0	---
Operational (talk)- - - - -	3.8	4.7.5	1.0	---

4.6.1.2.2 Rejected lots. If an inspection lot is rejected, the supplier may rework it to correct the defects, or screen out the defective units, and resubmit for reinspection. Resubmitted lots shall be inspected using tightened inspection. Such lots shall be separate from new lots, and shall be clearly identified as reinspected lots.

4.6.1.3 Group B inspection. Group B inspection shall consist of the tests specified in table IV and shall be made on sample units which have been subjected to and have passed group A inspection.

4.6.1.3.1 Sampling plan. The sampling plan shall be in accordance with MIL-STD-105 for special inspection level S-4. The AQL shall be 6.5 percent defective.

TABLE IV. Group B inspection.

Test	Requirement paragraph	Method paragraph
Frequency response ^{1/} - - - - -		
Earphone- - - - -	3.4.4	---
Microphone - - - - -	3.4.5	---
Impedance (earphone)- - - - -	3.6	4.7.3
Resistance (microphone) - - - - -	3.7	4.7.4

^{1/} Handset components shall meet the requirements of MIL-M-13189.

4.6.1.3.2 Rejected lots. If an inspection lot is rejected, the supplier may rework it to correct the defects, or screen out the defective units, and resubmit for reinspection. Resubmitted lots shall be inspected using tightened inspection. Such lots shall be separate from new lots, and shall be clearly identified as reinspected lots.

4.6.1.3.3 Disposition of sample units. Sample units which have passed the group B inspection may be delivered on the contract or purchase order, if the lot is accepted and the sample units are still within specified electrical tolerances.

4.6.1.4 Group C inspection. Group C inspection shall consist of the tests specified in table V, in the order shown. Group C inspection shall be made on sample units selected from inspection lots which have passed groups A and B inspections.

4.6.1.4.1 Sampling plan. Group C inspection shall be performed once each month on 9 sample units selected without regard to their quality from units produced during the period or each 1,000 units, whichever occurs first. The sample shall be divided equally into three groups and subjected to the tests of subgroups 1, 2, and 3 of table V.

TABLE V. Group C inspection.

Test	Requirement paragraph	Method paragraph
<u>Subgroup 1</u>		
Vibration ^{1/} - - - - -	3.9	4.7.6
Moisture resistance ^{1/} - - - - -	3.10	4.7.7
<u>Subgroup 2</u>		
Random drop ^{1/} - - - - -	3.11	4.7.8
Temperature cycling ^{1/} - - - - -	3.12	4.7.9
<u>Subgroup 3</u>		
Switch- - - - -	3.13	4.7.10

^{1/} After subjection to environmental tests, earphones and microphones shall meet the requirements of MIL-M-13189.

4.6.1.4.2 Failures. If one or more sample units fail to pass group C inspection, the sample shall be considered to have failed.

4.6.1.4.3 Disposition of sample units. Sample units which have been subjected to group C inspection shall not be delivered on the contract or purchase order.

4.6.1.4.4 Noncompliance. If a sample fails to pass group C inspection, the supplier shall take corrective action on the materials or processes, or both, as warranted, and on all units of product which can be corrected and which were manufactured under essentially the same conditions, with essentially the same materials, processes, etc., and which are considered subject to the same failure. Acceptance of the product shall be discontinued until corrective action, acceptable to the Government, has been taken. After the corrective action has been taken, group C inspection shall be repeated on additional sample units (all inspection, or the inspection which the original sample failed, at the option of the Government). Groups A and B inspections may be reinstated; however, final acceptance shall be withheld until the group C reinspection has shown that the corrective action was successful. In the event of failure after reinspection, information concerning the failure and corrective action taken shall be furnished to the cognizant inspection activity and the qualifying activity.

4.6.2 Inspection of preparation for delivery. The sampling and inspection of the preservation-packaging and interior package marking shall be in accordance with the group A and B quality conformance inspection requirements of MIL-P-116. The sampling and inspection of the packing and marking for shipment and storage shall be in accordance with the quality assurance provisions of the applicable container specification and the marking requirements of MIL-STD-129.

4.7 Methods of examination and test.

4.7.1 Visual and mechanical examination. Handsets shall be examined to verify that the materials, design, construction, physical dimensions, marking, and workmanship are in accordance with the applicable requirements (see 3.3, 3.4.1 thru 3.4.15 inclusive, 3.14 and 3.15).

4.7.2 Dielectric withstanding voltage (see 3.5). The handset shall be tested with the microphone element and the earphone element removed. The handset shall be tested in accordance with method 301 of MIL-STD-202. The following details shall apply:

- (a) Test voltage - 440 volts.
- (b) Nature of potential - 60 Hz ac.
- (c) Points of application - The test voltage shall be applied between the wiring and adjacent metal nonconductors and ground of the wired handset handle.

4.7.3 Impedance (earphone) (see 3.6). The magnetic earphone elements shall be measured while located on a 6 cm³ coupler as specified for the response test per MIL-M-13189. Connect the magnetic earphone element, in series with a noninductive resistance at least 100 times the rated impedance of the magnetic earphone element, to a source of alternating voltage at 1,000 Hz. Adjust the source voltage to obtain an rms voltage across the magnetic earphone element specified as follows:

<u>Rated impedance of magnetic earphone elements</u>	<u>RMS voltage across magnetic earphone element</u>
(ohms)	(volt)
128	0.057
256	0.080
3,000	0.275

Replace the magnetic earphone element with a variable noninductive resistance, and without changing the source voltage, adjust the variable resistance to obtain the same voltage as for the magnetic earphone element. The ohmic value of the resistance necessary to obtain the rms voltage reading shall be considered as the impedance of the magnetic earphone element.

4.7.4 Resistance (microphone, see 3.7). The resistance for the test shall be taken as the maximum resistance, (determined from the potential (voltage) dc and current dc readings), occurring during the periods from 5 seconds after the agitation is completed until the end of the test.

4.7.5 Operational (talk) (see 3.8). Completely assembled handsets shall be tested by a two-way talk-test to insure correct wiring and satisfactory operation.

4.7.6 Vibration (see 3.9). The handset shall be tested for vibration in accordance with method 201 of MIL-STD-202. The following details shall apply:

- (a) Visual-mechanical examination shall be made prior to the vibration.
- (b) During the vibration, the handset shall be wired as specified in the operational (talk) test (see 4.7.5).
- (c) Method of mounting shall be as prescribed in the procedure of the test method.
- (d) After the test the handset shall be examined for loose and defective parts and the frequency-response shall be measured as specified in MIL-M-13189.

4.7.7 Moisture resistance (see 3.10). The complete handset shall be tested in accordance with method 106 of MIL-STD-202. The following details shall apply:

- (a) Mounting - Any convenient mounting with the front face of microphone cap and the receiver cap exposed, and facing the air current, if any.
- (b) Polarizing voltage - Not applicable.
- (c) Step 7b - Not applicable.
- (d) Final measurements - At the completion of the tenth cycle and following a 24-hour period at 25 ±5°C and 50 ±5 percent relative humidity. The handset shall be tested for frequency response in accordance with MIL-M-13189 and examined for loose or deformed parts, corrosion, or other damage.

4.7.8 Random drop (see 3.11). The handset shall be dropped six times from a height of 4 feet onto a concrete floor. The handset shall strike at least once on the receiver and once on the transmitter end. The frequency response shall be measured as specified in MIL-M-13189 and the handset shall be examined for damage.

4.7.9 Temperature cycling (see 3.12). The equipment shall be tested in accordance with method 102 of MIL-STD-202. The following details shall apply:

- (a) Test condition letter - D.
- (b) Measurement after cycling - The equipment shall be examined for damage and the frequency response shall be measured as specified in MIL-M-13189.

4.7.10 Switch test (when applicable, see 3.1). The switch shall be subjected to 100,000 make-and-break cycles at a rate not to exceed 12 cycles per minute. Tests requiring repetitive operation of switches shall be made using a suitable device arranged to move the switch lever into each "ON" position and back to the original position to complete one cycle of operation, and thereby causing the switching mechanism to make-and-break (or break-and-make) all the circuits in which the switch is connected.

5. PREPARATION FOR DELIVERY

5.1 Preservation-packaging. Preservation-packaging shall be level A or C, as specified (see 6.2).

5.1.1 Level A.

5.1.1.1 Cleaning. Handsets shall be cleaned in accordance with MIL-P-116, process C-1.

5.1.1.2 Drying. Handsets shall be dried in accordance with MIL-P-116.

5.1.1.3 Preservative application. Preservatives shall not be used.

5.1.1.4 Unit packaging. Unless otherwise specified (see 6.2), handsets shall be individually packaged in accordance with MIL-P-116, submethod IA-15 insuring compliance with the general requirements paragraph under method of preservation (unit protection) and the physical protection requirements paragraph therein. The container shall conform to PPP-B-566 or PPP-B-676.

5.1.1.5 Intermediate packaging. Not required.

5.1.2 Level C. Handsets shall be clean, dry and packaged in a manner that will afford adequate protection against corrosion, deterioration and physical damage during shipment from supply source to the first receiving activity.

5.2 Packing. Packing shall be level A, B, or C, as specified (see 6.2).

5.2.1 Level A. The packaged handsets shall be packed in fiberboard containers conforming to PPP-B-636, class weather resistant, style optional, special requirements. In lieu of the closure and waterproofing requirement in the appendix of PPP-B-636, closure and waterproofing shall be accomplished by sealing all seams, corners and manufacturer's joint with tape, two inches minimum width, conforming to PPP-T-60, class 1 or PPP-T-76. Banding (reinforcement requirements) shall be applied in accordance with the appendix to PPP-B-636 using non-metallic or tape banding only.

5.2.2 Level B. The packaged handsets shall be packed in fiberboard containers conforming to PPP-B-636, class domestic, style optional, special requirements. Closures shall be in accordance with the appendix thereto.

5.2.3 Level C. The packaged handsets shall be packed in shipping containers in a manner that will afford adequate protection against damage during direct shipment from the supply source to the first receiving activity. These packs shall conform to the applicable carrier rules and regulations.

5.2.4 Unitized loads. Unitized loads, commensurate with the level of packing specified in the contract or order, shall be used whenever total quantities for shipment to one destination equal 40 cubic feet or more. Quantities less than 40 cubic feet need not be unitized. Unitized loads shall be uniform in size and quantities to the greatest extent practicable.

5.2.4.1 Level A. Handsets, packed as specified in 5.2.1, shall be unitized on pallets in conformance with MIL-STD-147, load type I, with a fiberboard cap (storage aid 4) positioned over the load.

5.2.4.2 Level B. Handsets, packed as specified in 5.2.2, shall be unitized as specified in 5.2.4.1 except that the fiberboard caps shall be class domestic.

5.2.4.3 Level C. Handsets, packed as specified in 5.2.3, shall be unitized with pallets and caps of the type, size and kind commonly used for the purpose and shall conform to the applicable carrier rules and regulations.

5.3 Marking. In addition to any special marking required by the contract or purchase order (see 6.2), each unit package, exterior container and unitized load shall be marked in accordance with MIL-STD-129.

5.4 General. Special requirements for Army procurements are specified in 5.4.2.

5.4.1 Exterior containers. Exterior containers (see 5.2.1, 5.2.2, and 5.2.3) shall be of a minimum tare and cube consistent with the protection required and shall contain equal quantities of identical stock numbered items to the greatest extent practicable.

5.4.2 Army procurements.

5.4.2.1 Level A unit packaging. MIL-P-116 submethod IC-2 shall be used in lieu of submethod IA-15 (see 5.1.1.4).

5.4.2.2 Level A and B packing. For level A packing when quantities per destination are less than a unitized load, the fiberboard containers shall not be banded but shall be placed in a close fitting box conforming to PPP-B-601, overseas type; PPP-B-621, class 2 style 4 or PPP-B-585, class 3, style 2 or 3. Closure and strapping shall be in accordance with applicable container specification except that metal strapping shall conform to QQ-S-781, type I, class B. When the gross weight exceeds 200 pounds or the container length and width is 48 x 24 inches or more and the weight exceeds 100 pounds, 3 x 4 inch skids (laid flat) shall be applied in accordance with the requirements of the container specification. If not described in the container specification, the skids shall be applied in a manner which will adequately support the item and facilitate the use of material handling equipment. For level B packing, fiberboard boxes shall be weather resistant as specified in level A and the containers shall be banded (see 5.2.1 and 5.2.2).

5.4.2.3 Level A and B unitization. For level A and B unitization, the fiberboard caps shall be weather resistant and softwood pallets conforming to NN-P-71, type IV, size 2 shall be used (see 5.2.4.1 and 5.2.4.2).

6. NOTES

6.1 Intended use. The handsets covered by this specification are intended to be used with wire and radio communication equipment.

6.2 Ordering data. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Title, number, and date of the applicable specification sheet and the applicable type number (see 3.1).
- (c) Levels of preservation-packaging and packing required (see 5.1 and 5.2).
- (d) Method of preservation, if other than submethod IA-15 (see 5.1.1.4).
- (e) Special marking, if required (see 5.3).

6.3 First article inspection. Information pertaining to first article inspection of components covered by this specification should be obtained from the procuring activity for the specific contracts involved (see 3.2).

6.4 Nomenclature. The parentheses in the nomenclature will be deleted or replaced by a letter identifying the particular design; for example: AN/PIQ-1W.

6.5 Changes from previous issue. Asterisks are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

MIL-H-13253D

Custodians:

Army - EL
Navy - EC
Air Force - 17

Review activities:

Army - MI, MU, SM
Navy - SH
Air Force - 80
DSA - ES

User activities:

Army -
Navy - MC, CG
Air Force -

Preparing activity:

Army - EL

Agent:

DSA - ES

(Project 5965-0125)