

MIL-C-43800A
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SUPERSEDING
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MILITARY SPECIFICATION

COVERS, PROTECTIVE, AIRDROP HARDWARE

AND EQUIPMENT, 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 document covers miscellaneous protective covers employed in airdrop applications.

2. APPLICABLE DOCUMENTS

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

STANDARDS

FEDERAL

FED-STD-751 - Stitches, Seams and Stitchings

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes

MIL-STD-130 - Identification Marking of U.S. Military Property

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: U.S. Army Natick Research and Development Center, Natick, MA 01760 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 1670

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(Copies of documents required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

- * 2.2 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 shall take precedence.

3. REQUIREMENTS

3.1 First article. When specified, a sample shall be subjected to first article inspection (see 4.3, 6.2 and 6.3).

3.2 Materials (see 6.4). Materials shall be in accordance with this document and with subsidiary documents cited on the applicable drawing.

3.3 Fabrication and assembly. The end items shall conform to the requirements of this document and to the design, details and dimensions shown or specified on the applicable drawing.

3.3.1 Stitches and stitching.

3.3.1.1 Machine stitching. Unless otherwise specified on the drawing, all machine stitching shall be type 301, conforming to FED-STD-751. Thread breaks, bobbin runouts, or two or more consecutive skipped stitches shall be overstitched a minimum of 1 inch beyond the ends of each defect. Runoff areas shall be restitched to conform to the required stitch pattern. Backstitching is not required when ends of type 301 stitching are turned under in a hem or held down by other stitching. Thread tension shall be maintained so that there will be no loose stitching and the lock will be imbedded in the materials sewn. All thread ends shall be trimmed.

3.3.1.2 Stitching, automatic machinery. Stitching patterns produced by automatic machines may be utilized in lieu of those specified, providing seam strength, efficiency, and function are equal to, or better than, the specified pattern, and upon approval by the contracting activity. Certification of equivalency, supported by engineering data, may be required.

3.4 Identification marking. Unless otherwise specified in the contract or purchase order, covers shall be marked for identification in accordance with MIL-STD-130.

3.5 Workmanship. The workmanship shall conform to the quality established by the applicable drawing and this document.

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4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor 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 document where such inspections are necessary to assure supplies and services conform to prescribed requirements.

* 4.2 Classification of inspection. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.3).
- b. Quality conformance inspection (see 4.4).

4.3 First article inspection. When a first article is required (see 6.2), it shall be examined for the defects specified in table I and 4.4.4. The presence of any defect shall be cause for rejection of the first article.

4.4 Quality conformance inspection. Unless otherwise specified, sampling for inspection shall be performed in accordance with MIL-STD-105.

4.4.1 Component and material inspection. In accordance with 4.1, components and materials shall be inspected in accordance with all the requirements of referenced documents unless otherwise excluded, amended, modified, or qualified in this document or applicable procurement document.

4.4.2 In-process inspection. Inspection shall be made at appropriate stages of fabrication to determine conformance to the requirements of this document. Whenever nonconformance is noted, the affected items and the operation shall be corrected. The Government reserves the right to exclude from consideration for acceptance, any material for which in-process inspection has indicated nonconformance.

* 4.4.3 End item visual examination. The end item shall be examined for the defects listed in table I. The lot size shall be expressed in units of one end item. The sample unit shall be one end item. The inspection level shall be II and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 1.5 for major defects and 6.5 for total (major and minor combined) defects.

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TABLE I. Visual defects

Examine	Defect	Classification	
		Major	Minor
Materials	Not of specified type, class, or size	X	
	Color not as specified		X
	Cut, hole, tear or abrasion, thin or weak areas	X	
Thread	Not specified type or size	X	
	Color not as specified		X
Stitches and stitching	Not type of stitch specified	X	
	Stitch pattern not as specified		X
	One stitch per inch less than minimum specified		X
	Two or more stitches per inch less than minimum specified	X	
	One stitch per inch in excess of the maximum specified		X
	Two or more stitches per inch in excess of the maximum specified	X	

NOTE: Variation in number of stitches per inch, caused by operator speeding up the machine or pulling the material in order to sew over heavier places, heavy seams or in turning corners, shall be classified as follows:

(a) Within the major defect classification - Minor defect

(b) Within the minor defect classification - No defect

Thread breaks, bobbin runouts, or two or more consecutive skipped stitches not overstitched a minimum of 1 inch

Ends of stitching not backstitched a minimum of 1/2 inch or as specified on the drawing

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TABLE I. Visual defects (cont'd)

Examine	Defect	Classification	
		Major	Minor
Stitches and stitching (cont'd)	Loose tension, resulting in loosely exposed top or bobbin thread; or tight tension resulting in tightness or puckering of material at stitch line		X
	Thread ends not trimmed		X
	Any row of stitching missing	X	
	Needle chews	X	
	Runoffs not restitched		X
	Any open seams	X	
	NOTE: A seam will be classified as open when one or more stitches joining a seam are broken or two or more consecutive skipped stitches occur. Repairs of open seams shall not be scored as defects.		
Hardware	Omitted, damaged, malformed, burred, or sharp edged		X
	Not assembled as specified		X
Fasteners (hook and pile)	Missing or misaligned	X	
Construction and workmanship	Any component missing, misaligned, or not joined as specified	X	
	Grease, oil, dirt or other foreign matter in or on surface of cloth		X
	Raw edges not stitched as specified		X
	Webbing not waxed as specified		X
	Webbing edges not seared as specified		X
Marking	Not specified size or color		X
	Missing, incorrect, illegible, or improperly located		X

* 4.4.4 End item dimensional examination. The end item shall be examined for conformance to dimensions specified in applicable drawings. Any dimension not within the specified tolerance shall be classified as a defect. The lot size shall be expressed in units of one end item. The sample unit shall be one end item. The inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 6.5.

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4.4.5 Packaging inspection. An examination shall be made to determine that the preservation, packing, and marking comply with section 5 requirements. Defects shall be scored in accordance with table II. The sample unit shall be one shipping container fully packaged, except that it need not be closed. Examination for closure defects listed in table II shall be made on shipping containers fully packaged. The lot size shall be the number of containers in the inspection lot. The inspection level shall be S-2 and the AQL, expressed in terms of defects per hundred units, shall be 6.5.

TABLE II. Packaging defects

Examine	Defect
Materials	Component missing, damaged, defective, or not as specified
Workmanship	Inadequate application of components such as improper closure of flaps
Contents	Number per interior package or interior container not as specified
Marking (interior and exterior container)	Omitted, incorrect, illegible, or improper size

5. PACKAGING

5.1 Preservation, packing, and marking. Preservation, packing, and marking shall be in accordance with the applicable Packaging Data Sheet (see 6.2).

6. NOTES

6.1 Intended use. The covers are intended to protect airdrop hardware and cargo from damage.

6.2 Ordering data. Acquisition documents should specify the following:

- a. Title, number, and date of this document.
- b. Cover required and stock number.
- c. When a first article is required (see 3.1, 4.2 and 6.3).
- d. Packaging data sheet required (see 5.1).
- e. Selection of applicable levels of preservation and packing (see 5.1)

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6.3 First article. When a first article sample is required, it shall be inspected and approved under the appropriate provisions of DAR 7-104-55. The contracting officer should include specific instructions in all acquisition documents regarding definition of the first article in accordance with the DAR, number of units and arrangements for inspection and approval.

* 6.4 Recycled material. Recycled material should be used when practical as long as it meets the requirements of the document (see 3.2).

6.5 Changes from previous issue. The margins of this document are marked with an asterisk to indicate where changes (additions, deletions, modifications, corrections) from the previous issue 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 marginal notations and relationship to the last previous issue.

Custodians:

Army - GL
Navy - AS
Air Force - 11

Preparing activity:

Army - GL
Project No. 1670-0501

Review activities:

Army - AV
Air Force - 82, 99

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APPENDIX

10. SCOPE

10.1 This Appendix lists and identifies the applicable USAF and NLABS drawings, titles, and Federal Stock Numbers of specific covers to be fabricated in accordance with the applicable drawing and the provisions of this specification.

20. APPLICABLE DOCUMENTS.

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

DRAWINGS AND STOCK NUMBERS

<u>USAF</u>	<u>NLABS</u>	<u>TITLE</u>	<u>NSN</u>
50C7406		Cover, Clevis, Aerial Delivery Kit	1670-00-360-0328
50C7496		Cover, Link, Single Suspension or Extraction	1670-00-360-0329
51C6174		Cover, Cargo, Aerial Delivery Kit, Side	1670-00-360-0324
51C6175		Cover, Cargo, Aerial Delivery Kit, End	1670-00-360-0323
	11-1-674	Cover, Automatic Ripcord Release	1670-00-109-4697

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