

MIL-R-8592/1
25 June 1965

MILITARY SPECIFICATION

CABLE GRIP, RESCUE EQUIPMENT HELICOPTER

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

1. SCOPE

1.1 This specification covers the detailed requirements for the rescue cable grip. The general requirements are covered MIL-R-8592.

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

PPP-E-636	Box, Fiberboard
PPP-B-640	Boxes, Fiberboard, Corrugated, Triple, wall
PPP-C-8431	Cushioning Material, Cellulosic

Military

MIL-P-116	Preservation, Methods of
MIL-R-8592	Rescue Equipment, Helicopter
MIL-L-10547	Liners, Case, and Sheet, Overwrap, Water-Vaporproof or Waterproof, Flexible

FSC 4240

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STANDARDS

Military

MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-129	Marking for Shipment and Storage
MS90382	Cable Grip, Rescue

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

3. REQUIREMENTS

3.1 Preproduction - The cable grip furnished under this specification shall be a product which has been tested and passed the preproduction inspection specified herein.

3.2 Materials - All material shall be as specified on MS938.

3.3 Design - The cable grip shall be designed in accordance with MS90382.

3.4 Performance -

3.4.1 Proof load - The cable grip shall exhibit no evidence of slippage, separation of cable and grip, failure of the grip, nor deformation of any part when tested as specified in Section 4.

3.5 Marking - The following information shall be marked on the cable grip in a durable and legible manner:

Cable grip - Rescue
MS part No. 90382
Contract No.
Manufacturer's name or trade mark.

3.6 Workmanship - The cable grip shall be clean, and free from excess oil and grease, and other foreign matter and constructed in such a manner as to withstand normal strains, jars, jolts, vibrations and other such conditions incident to shipping, storage, installation and service and shall conform to the quality and grade of product established by this specification. The occurrence of defects shall not exceed the acceptance criteria established herein.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection - Unless otherwise specified in the contract or purchase order, the supplier is responsible for the

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performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to 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.

4.2 Classification of inspection - The inspection and testing of the rescue equipment shall be classified as follows:

- (a) Preproduction inspection - Preproduction inspection consists of inspection and tests performed on equipment which are representative of the production item after award of a contract to determine that the production item meets the requirements of this specification.
- (b) Quality conformance inspection - Quality conformance inspection consists of inspection and tests performed on individual products or lots to determine conformance of the products or lots with the requirements set forth in this specification.

4.3 Preproduction inspection - The preproduction inspection of the equipment shall consist of inspection and tests for all of the requirements of this specification.

4.3.1 Preproduction samples - Unless otherwise specified, as soon as practicable after award of the contracts or order, the manufacturer shall submit two preproduction samples. The samples shall be representative of the construction, workmanship, and materials to be used during production. When a manufacturer is in continuous production of these cable grips from contract to contract submission of further preproduction samples may be waived at the discretion of the procuring activity. Approval of the preproduction samples or the waiving of preproduction inspection does not preclude the requirement of submitting to quality conformance inspection. The preproduction samples shall be forwarded to the Supply Officer, Naval Air Engineering Center, Philadelphia, Pa. 19112, Attention: Director, Aerospace Crew Equipment Laboratory. The samples shall be plainly marked with the following information:

Samples submitted by (name) (date) for preproduction inspection in accordance with the requirements of MIL-R-8592/1 under Contract No.

4.3.1.1 Upon the completion of the preproduction inspection, all the applicable inspection reports, and when applicable, recommendations and comments pertinent for use in monitoring production shall be forwarded to the Government quality control representative. One approved preproduction sample shall be returned to the manufacturer for use in monitoring production.

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4.4 Quality conformance inspection - The quality conformance inspection shall consist of the tests listed in Table I.

4.4.1 Inspection lot -

4.4.1.1 Cable grips - An Inspection lot shall consist of all the cable grips manufactured from essentially the same components under essentially the same conditions offered for acceptance and delivery at *one* time.

4.4.1.2 Preparation for delivery - An inspection lot size shall be expressed in units of one fully prepared shipping container fully prepared for delivery with the exception It need not be sealed.

4.42 Sampling for tests and examination of the cable grip - The sample size, acceptance criteria, examinations and tests required for the cable grip shall be as specified in Table I.

TABLE I

Sample Size, Acceptance Criteria, Examinations and Tests

	Type of Inspection	Paragraph		Sample Size	Acceptance Criteria
		Rqmnt	Method		
Visual Examination	Critical. and Minor		4.5.1	Every grip for critical defects and Inspection Level II <u>1/</u> for minor defects	Reject all units with any critical defects and an acceptable quality level of 6.5 defects per hundred units for minor defects
Proof load	Critical	3.4.1	4.5.3	2 from each 1000 or fraction thereof	Reject all defective units. Acceptance number zero rejection number one
Preparation for delivery	Major		4.5.2	Inspection Level S-2 <u>1/</u>	Total AQL of 4.0 per-cent defective

1/ The sample size shall be based on the applicable size code letter corresponding to the specified inspection level of MIL-STD-105.

4.5 Inspection method -

4.5.1 Visual examination - Every cable grip shall be visually examined for defects to determine conformance to the requirements of this specification and Military Standard Drawing No. 90382. The classificatio. and list of defects, Table II, shall be used to classify and enumerate the defects found.

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TABLE II

Classification of Defects for Visual-
Examination of the Cable Grip

Critical	Minor
1. Material imperfections - foreign material embedded, cracks, burrs or sharp edges	201. Marking - missing, insufficient, incorrect, illegible, or not permanent
2. Any component missing, malformed, fractured or otherwise damaged	
3. Incorrect assembly or improper positioning of parts	
4. Any functioning part that works with difficulty	
5. Any dimension not within specified tolerances	
6. Faulty workmanship or other irregularities	

4.5.2 Preparation for delivery - Each of the fully prepared shipping containers selected as a sample unit from the lot shall be examined to determine that the packaging, packing and marking conform to this specification. The classification of defects, Table III, shall be used to classify the defects found.

TABLE III

Classification of Defects for Preparation for Delivery

Item	Defects
Exterior and Interior markings	Missing, incorrect, incomplete, illegible; of improper size, location, sequence of method of application; markings not the same as the Interior and exterior containers.
Packaging and packing materials	Any non-conforming component; any component missing, damaged, or otherwise defective.
Workmanship	Inadequate application of the components such as Incomplete closure of the unit package, intermediate package, container

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TABLE III (Cont'd)

Item	Defects
Workmanship (Cont'd)	flaps, or loose strapping, etc; bulging or distortion of the containers.
Exterior and interior weight or content	Number per container is more or less than required; gross or net weight exceeds the requirement.

4. 5.3 Proof load - The cable grip shall be tested as indicated on Figure 1. Gradually apply a 1000 pound load to the cable grip. Hold the 1000 pound load for a minimum of 5 seconds. Repeat the above loading three times. After the third load the grip and cable shall be examined for damage. Any damage to the jaws of the grip or breaks in the cable caused by the jaws of the cable grip shall be cause for rejection.

5. PREPARATION FOR DELIVERY

5.1 Packaging - Packaging shall be Level A or C, as specified (see 6.2).

5.1.1 Level A - The cable grip shall be packaged in accordance with MIL-P-116, Method III. Each cable grip shall be completely wrapped and cushioned within material conforming to PPP-C-8431, Type II. The cushioned item shall then be packaged within a close fitting fiberboard box conforming to PPP-B-636, Style OPF, Class-Domestic, Grade 125 (minimum).

5.1.2 Level C - Each cable grip shall be packaged in a manner that will prevent physical damage and deterioration during transit from the supply source to the shipping point. The contractor's commercial packaging practice may be utilized when it conforms to the criteria stated herein.

5.2 Packing - Packing shall be Level A, B or C as specified by the procuring activity (see 6.2). Insofar as practicable, shipping containers shall contain items of one part number, contain identical quantities, be of uniform size and shape and effect a close fit for the contents.

5.2.1 Level A - The cable grips, packaged as specified In 5.1.1 shall be packed for shipment in fiberboard shipping containers conforming to PPP-B-636, Class-Weather resistant, Grade V3s/V3c or PPP-B-640, Class 2, Grade A. The gross weight of each packed container shall not exceed 70 pounds for the PPP-B-636 container nor 200 pounds for the PPP-B-640 container. Each container shall be fitted with a waterproof case liner fabricated and sealed In accordance with MIL-L-10547. The container closure, sealing and banding procedure shall be accomplished in accordance with the procedure delineated in the appendix Of the applicable specification.

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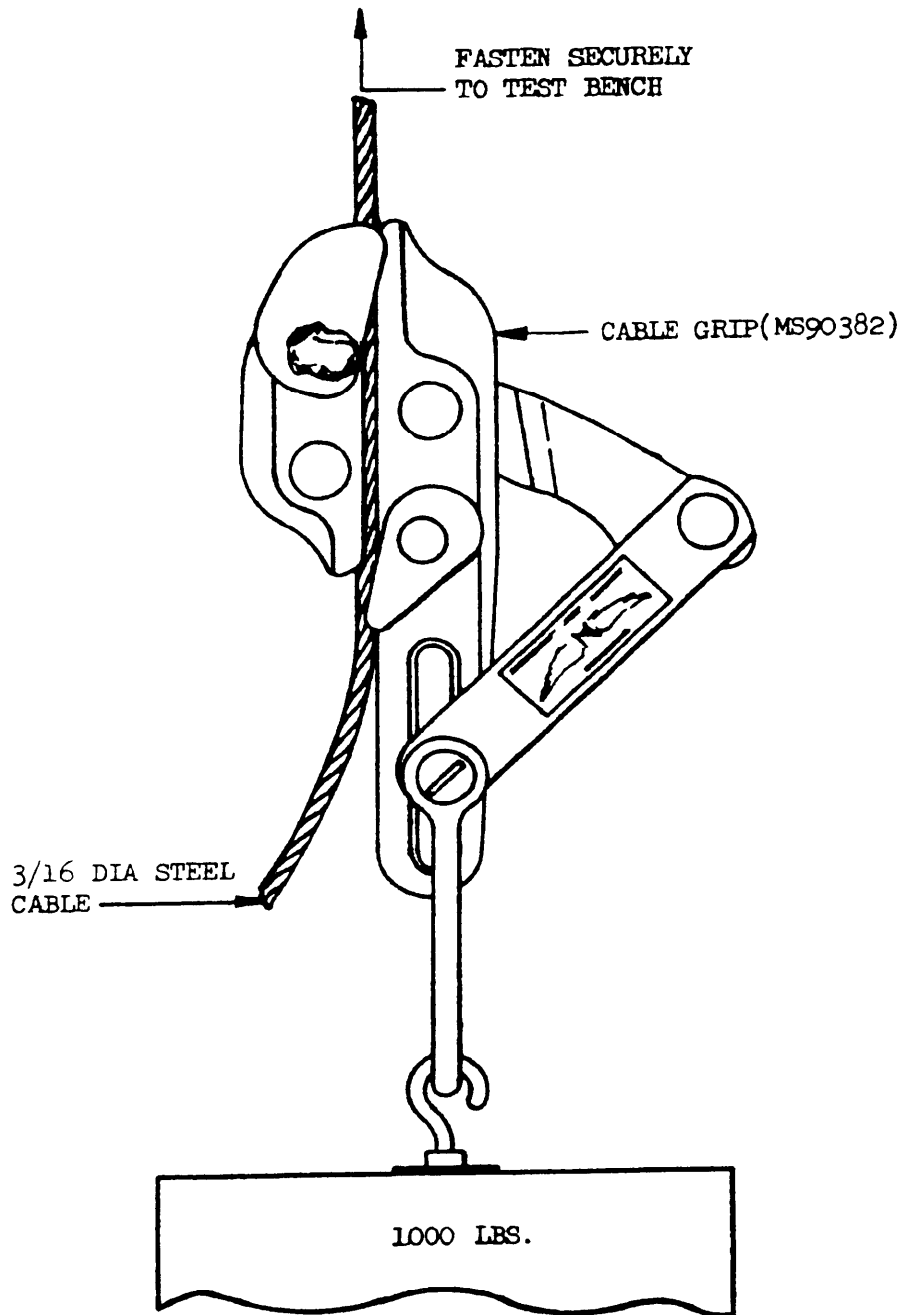


Figure 1. CABLE GRIP PROOF LOAD TEST

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5.2.2 Level B - The cable grips packaged as specified in 5.1.1 shall be packed shipment in fiberboard containers conforming to PPP-B-636, Class-Domestic, Grade 275 (minimum) or PPP-B-640, Class 1, Grade A or B. The gross weight of each packed container shall not exceed 90 pounds for the PPP-B-636 container, nor 200 pounds for the PPP-B-640 container. The closure and banding shall be accomplished in accordance with the procedure specified in the appendix of the applicable specification.

5.2.3 Level C - The cable grips, packaged as specified, shall be packed for shipment in shipping containers that will afford protection against damage during transit from the supply source to the point of delivery. The pack shall, as a minimum, comply with the rules and regulations applicable to the mode of transportation utilized.

5.3 Marking - Interior and exterior shipping containers shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use - The helicopter rescue equipment covered by this specification is used to assist personnel performing rescue work from helicopter aircraft.

6.2 Ordering data - Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Whether preproduction inspection is required. (See 4.3.1.).
- (c) Quantity.
- (d) Selection of applicable levels of packaging and packing.

6.3 Certain provisions of this specification are the subject of International Standardization agreement (STANAG 3295 and 3281). When amendment, revision, or cancellation of this specification is proposed, the departmental custodians will inform their respective Departmental Standardization Offices so that appropriate action may be taken respecting the international agreement concerned.

Custodians:

Navy - WP
 Air Force - 84
 Army-MO
 international Interest (see Section 6)

Preparing activity:

Navy - WP

Review activities:

Navy - WP
 Air Force - 11, 84
 Army-MO

FOLD

DEPARTMENT OF THE NAVY
Naval Air Engineering Center
Philadelphia, Pennsylvania 19112

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Naval Air Engineering Center
Philadelphia, Pennsylvania 19112

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SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No. 119-R004
INSTRUCTIONS		
This sheet is to be filled out by personnel either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity (as indicated on reverse hereof).		
SPECIFICATION MIL-R-8592B, Rescue Equipment, Helicopter		
ORGANIZATION (of submitter)		CITY AND STATE
CONTRACT NO.	QUANTITY OF ITEMS PROCURED	DOLLAR AMOUNT \$
MATERIAL PROCURED UNDER A <input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? A. GIVE PARAGRAPH NUMBER AND WORDING.		
B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES.		
2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID		
3. IS THE SPECIFICATION RESTRICTIVE? <input type="checkbox"/> YES <input type="checkbox"/> NO IF "YES", IN WHAT WAY?		
4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)		
SUBMITTED BY (Printed or typed name and activity)		DATE

MIL-R-8592/1
AMENDMENT 1
3 February 1978

MILITARY SPECIFICATION

CABLE GRIP, RESCUE EQUIPMENT HELICOPTER

This amendment forms a part of Military Specification MIL-R-8592/1 dated 25 June 1965, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

2.1 SPECIFICATIONS, Federal

Delete - "PPP-C-8431" and substitute "PPP-C-843"

Bottom of page add:

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commanding Officer, Naval Air Engineering Center, ESSD, (Code 93) Lakehurst, New Jersey 08733 by using the self-addressed Standard Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

PAGE 2

3.1 - Delete and substitute the following:

"3.1 First Article Inspection - Unless specified, the cable grip furnished under this specification shall be a product which has been inspected and has passed the First Article Inspection specified in 4.3 through 4.3.1.1"

PAGE 3

4.2(a) - Delete and substitute the following:

"(a) First Article Inspection - First Article Inspection consists of inspection and tests performed on samples, which are representative of the production item after award of a contract to determine that the production item conforms to the requirements of this specification (see 3.1 and 4.3 through 4.3. 1.1)".

4.3 - Delete and substitute the following:

"4.3 First Article Inspection - The First Article Inspection of the cable grip shall consist of inspection and tests for all of the requirements of this specification."

FSC 42201

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AMENDMENT I

PAGE 3 (continued)

4.3.1 - Delete and substitute the following:

"4.3.1 First Article Samples - Unless specified, as soon as practicable after award of the contract or order, the manufacturer shall submit two samples for First Article Inspection. The samples shall be representative of the construction, workmanship and materials to be used during production. When a contractor is in continuous production of these cable grips from contract to contract submission of further samples for First Article Inspection on the new contract may be waived at the discretion of the procuring activity. Approval of the First Article Inspection samples, or the waiving of First Article Inspection, does not preclude the requirement of submitting to Quality Conformance Inspection. The First Article Inspection samples shall be furnished to the government as directed by the contracting officer (see 6.2b). The samples shall be plainly marked with the following information:

Samples submitted by (Name of Manufacturer) (Date) for
First Article Inspection in accordance with the requirements of
MIL-R-8592/1 under Contract No.

4.3.1.1 - Delete and substitute the following:

"4.3.1.1 Upon the completion of the First Article Inspection, all the applicable inspection reports and when applicable, recommendations and comments pertinent for use in monitoring production shall be forwarded to the cognizant government activity. One approved First Article Inspection sample shall be returned to the manufacturer for use in monitoring production."

PAGE 6

5.1.1, line 3 - Delete "PPP-C-8431", and substitute "PPP-C-843"

PAGE 8

6.2(b) - Delete and substitute the following:

"6.2(b) Whether First Article inspection is required and where samples should be delivered (see 4.3.1)

6.4 - Add new paragraph:

"6.4 Contract data requirements - When this specification is used in a procurement which incorporates a DD Form 1423 and invokes the provisions of 7-104.9(n) of the Armed Services Procurement Regulations, the data requirements identified below will be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved Contract Data Requirement List (DD Form 1423) incorporated into the contract. When the provisions of ASPR-7-104.9(n) are not invoked, the data specified below will be delivered by the contractor in accordance with the contract requirements. Deliverable data required by this specification is cited in the following paragraphs:

PAGE 2 of 3

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AMENDMENT I

PAGE 8 (continued)

Paragraph	Data Requirement	Applicable DID
4.3.1.1	First Article Inspection Reports	DI-T-5329 - Inspection Test Reports

6.5 - Add new paragraph:

"6.5 When a first article is required, it shall be tested under the appropriate provision of 7-104.55 of the Armed Services Procurement Regulation. The first article should be a preproduction sample. The contracting officer should include specific instructions in all procurement instruments, regarding arrangements for examinations, test and approval of the first article."

Custodians
Navy - AS
Air Force - 99

Preparing Activity:
Navy - AS

International Interest
(see Section six (6))

Project No. 4240-0455

Review Activities:
Air Force - 11

*U.S. GOVERNMENT PRINTING OFFICE: 1978-703-122/1074

NOTICE
OF VALIDATION

INCH-POUND

MIL-R-8592/1
NOTICE 1
24 OCTOBER 1991

MILITARY SPECIFICATION
SURVIVORS, SLING, RESCUE EQUIPMENT HELICOPTER

MIL-R-8592/1 (1) , dated 3 February 1978, has been reviewed and determined to be valid for use in acquisition.

Custodians :
Navy - AS
Air Force - 99

Preparing activity:
Navy - AS

AMSC N/A
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