

MIL-C-23288C(AS)  
24 December 1985

SUPERSEDING

MIL-C-23288B(AS)  
24 September 1974

## MILITARY SPECIFICATION

**CUTTER, POWDER ACTUATED, FACE CURTAIN CABLE, MARK 4 MOD 0**

This specification is approved for use within the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

**1. SCOPE**

**1.1 Scope.** This specification covers the requirements for the manufacture and acceptance of the Mark 4 Mod 0 powder actuated face curtain cable cutter (see 6.1).

**2. APPLICABLE DOCUMENTS****2.1 Government documents.**

**2.1.1 Specifications and standards.** The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

## SPECIFICATIONS

Military

MIL-P-116	Preservation, Methods of
MIL-W-5424	Wire Rope, Steel (Corrosion-Resisting) Flexible, Preformed
MIL-D-21625	Design and Evaluation of Cartridges for Cartridge Actuated Devices
MIL-P-46610	Primers, Percussion, Styphnate and Chlorate Types, for Small Arms Ammunition

## STANDARDS

Military

MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-129	Marking for Shipment and Storage
MIL-STD-453	Inspection, Radiographic

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, Systems Engineering and Standardization Department (SESD) Code 93, Lakehurst, NJ 08733, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

THIS DOCUMENT CONTAINS 7 PAGES.

FSC 1377

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AMSC N/A

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**2.1.2 Drawings and publications.** The following drawings and publications form a part of this specification to the extent specified herein. Unless otherwise specified, the issues shall be those in effect on the date of the solicitation.

## DRAWINGS

Naval Air Systems Command (Code Ident 30003)

DL419690	Cutter, Powder Actuated, Face Curtain Cable, Mark 4 Mod 0 (Formerly Code Ident 10001)
DL537893	Container, Inner, for Cutter, Powder Actuated, Face Curtain Cable Mark 4 Mod 0 (Formerly Code Ident 10001)
DL537894	Container, Outer, for Cutter, Powder Actuated, Face Curtain Cable, Mark 4 Mod 0 (Formerly Code Ident 10001)

U. S. Army Munitions Command (Code Ident 19200)

7645339	Primer, Percussion (50M-5061W)
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## PUBLICATIONS

Naval Sea Systems Command (Code Ident 53711)

WR-43	Preparation of Quality Assurance Provisions
OP-5	Ammunition Ashore, Handling, Stowing and Shipping

Code of Federal Regulations

49 CFR 100-199	Transportation
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(Copies of specifications, standards, drawings, and publications required by contractors 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 specification and the references cited herein, the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

## 3. REQUIREMENTS

**3.1 First article.** When specified in the contract or order, a sample shall be submitted for first article inspection (see 4.4 and 6.3).

**3.2 Conformance to documents.** The Mark 4 Mod 0 powder actuated face curtain cable cutter covered by this specification shall be manufactured in accordance with DL419690 and all documents listed thereon.

**3.3 Materials.** All materials used in the manufacture of the cutters shall conform strictly to the specifications referred to on the respective drawings unless specific approval in writing covering a departure therefrom has been obtained from the cognizant Navy design activity prior to manufacture. When alternate materials or methods of manufacture are specified on the drawings, the bidder's selections shall be clearly stated in the proposal.

**3.4 Primary components.** For the purpose of this specification, the primer shall be considered a primary component (see 4.5.1).

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**3.5 Primer.** The primers shall be manufactured within 2 years before assembly of the primers into the cable cutters or within 1 year after recertification. The primers shall be the 50M type, manufactured in accordance with Drawing 7645339, loaded with primer mixture 5061W, and shall be furnished from lots which were accepted in accordance with MIL-P-46610, Class 1 (see 4.6.1).

**3.5.1 Primer X-ray.** All primers shall be free of the following defects: missing or abnormally thin charge; charge broken, cracked or porous; anvil cracked, off center, or abnormally close to the primer cup dome; and all other observable defects in assembly (see 4.6.2.1).

**3.6 Cutter X-ray.** Cable cutters shall be examined for missing parts and other imperfections in assembly (see 4.6.2.2).

**3.7 Functional requirements.**

**3.7.1 Cable cutting.** A steel cable of the type specified (see 4.6.4) shall be completely severed by each cable cutter firing.

**3.7.2 Firing mechanism actuation.** An applied pressure of  $700 \pm 25$  pounds per square inch shall actuated the cable cutter firing mechanism.

**3.7.3 Hangfire.** The elapsed time between first movement of the firing pin to severance of the cable cutter shall not exceed 0.100 second. If the time exceeds 0.100 second it shall be considered a "hangfire".

**3.7.4 Misfire.** The primer shall fire as the result of firing mechanism actuation. If the primer does not fire it shall be considered a "misfire".

**3.8 Workmanship.** Cutters shall be free of the following defects: missing shear pin retaining screw, missing shear pin (if retaining screw is missing), threaded parts loose or improperly assembled, defective threads on the fitting end, obstruction of hole in fitting end, and any other defect which might prevent proper mating with connecting parts or proper functioning.

#### 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 specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

**4.1.1 Responsibility for compliance.** All items must meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

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

- a. First article inspection (see 4.4)
- b. Quality conformance inspection (see 4.5).

