

[INCH-POUND]
A-A-52425A
July 29, 1996
SUPERSEDING
A-A-52425
February 2, 1993

COMMERCIAL ITEM DESCRIPTION

ADAPTER, BATTERY TERMINAL

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies.

1. **SCOPE.** This CID covers terminal adapters for mounting and fastening positive or negative electrical leads to tapered battery terminals utilizing the nuts and bolts provided within the terminal adapter (see figure 1).
2. **CLASSIFICATION.** Terminal adapters shall be of the following types:

Type I - Positive
Type II - Negative

3. SALIENT CHARACTERISTICS

3.1 **Materials.** The battery terminal adapter shall be made of material selected by the manufacturer and shall be subject to all provisions of this CID.

3.1.1 **Body.** The body of the terminal adapter shall be made from a lead-antimony alloy having 4 to 7-1/2 percent (%) antimony, not more than 1% materials which are neither lead nor antimony, and the remainder lead.

3.1.2 **Insert.** The insert used in the terminal adapter body shall be made of low carbon steel having minimum properties of 30 000 pounds per square inch (psi) tensile strength, 20% elongation, 0.05 inches (in.) thick.

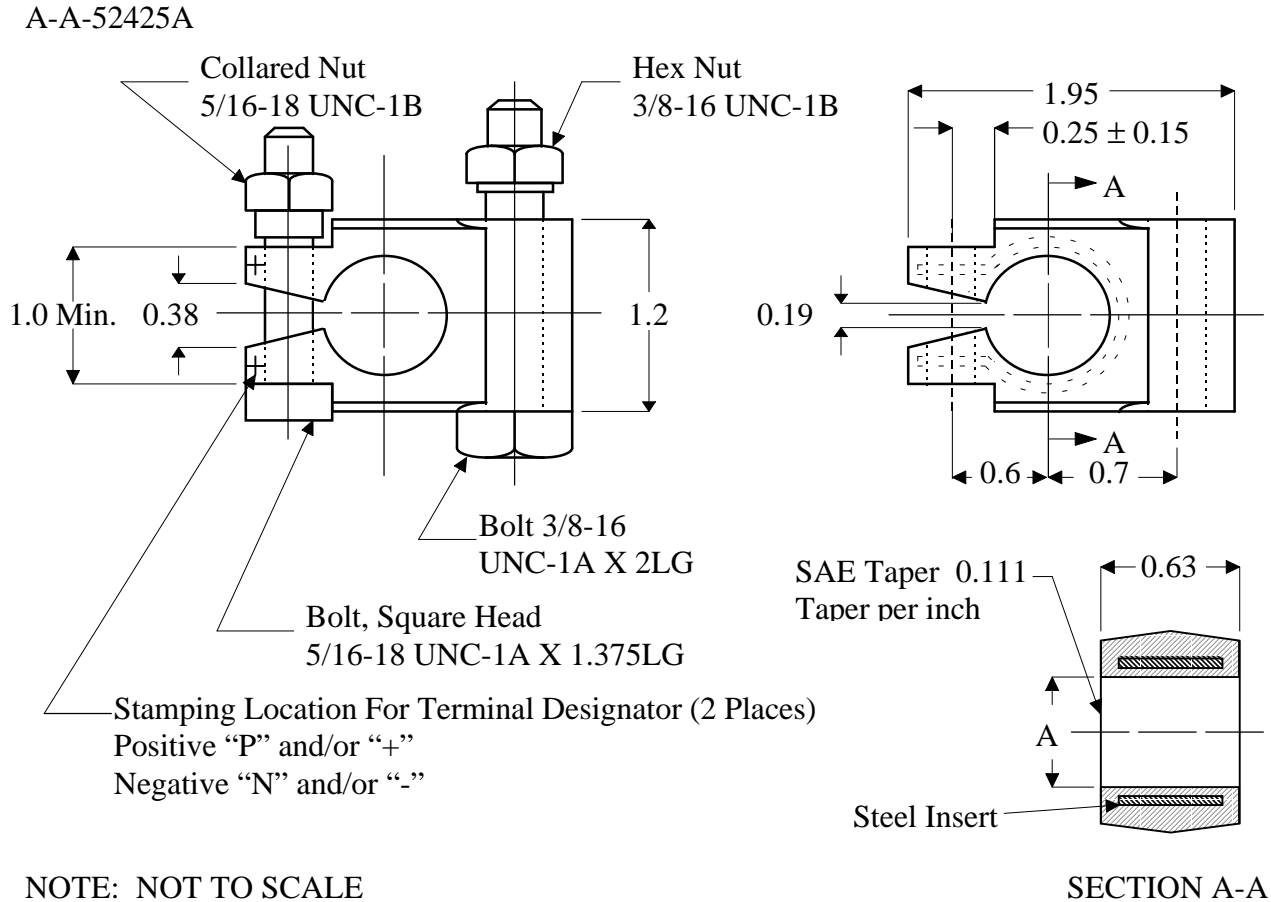
3.1.3 **Bolts and nuts.** The bolts and nuts used for clamping the terminal adapter to the battery terminal post and for mounting the leads shall be made of steel, SAE Grade I equivalent or better, and plated with zinc chromate or lead.

Beneficial comments, recommendations, additions, deletions clarifications, etc. and any other data which may improve this document should be sent by letter to: U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-TR-E/BLUE, Warren, MI 48397-5000.
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AMSC N/A

FSC 5940

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



Part Identification No. (PIN)	Former MS part No.	A. Diameter Small End		Terminal Designator	Type
		Max.	Min.		
A52425-1	MS75004-1	0.695	0.690	Positive	I
A52425-2	MS75004-2	0.633	0.628	Negative	II

1. Dimensions are in inches. Unless otherwise specified, tolerances are ± 0.02 .
2. Clearance for bolt holes shall be suitable for bolts in drawing.

FIGURE 1. Battery terminal adapter configuration.

3.2 Design and construction. The terminal adapters shall be constructed with a die cast body having a steel insert for reinforcing the core and provisions for a bolt and a nut for clamping to the battery post and a bolt and nut for mounting the leads. The insert shall be imbedded in and completely covered by the body alloy so that no voids expose the insert on the external surface of the adapter. All dimensions shall be in accordance with figure 1.

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3.3 Assembly. Completed terminal adapters shall have bolts and nuts assembled in place (see figure 1).

3.4 Terminal identification. The letters "P" for type I or "N" for type II and the signs "+" for type I or "-" for type II shall be cast, engraved or stamped on the top face of each terminal adapter for identification of positive or negative terminals as applicable (see figure 1).

3.5 Identification and marking. Identification and marking of the terminal adapters, as a minimum, shall include the part or identification number (PIN), manufacturer's CAGE code (or equivalent identification), and part number.

3.6 Workmanship. The workmanship shall be such as to insure a product free of sharp edges. The insert shall be completely covered by the lead alloy and die cast body shall be free of all voids or pits caused by molding faults, which would affect serviceability.

4. REGULATORY REQUIREMENTS

4.1 Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with Paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

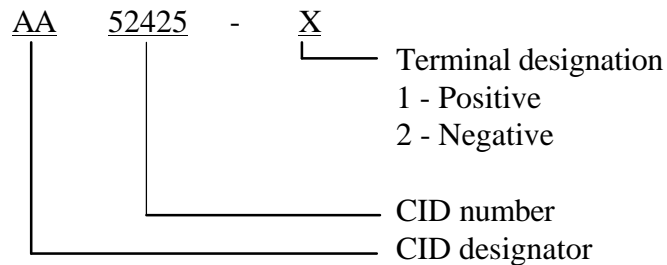
6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order (see 7.2).

7. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

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7.1 Part or Identification Number (PIN). Part or identification numbers to be used for adapters acquired to this CID are created as follows:



7.2 Ordering data. Acquisition documents must specify the following:

- a. Title, number, and date of this commercial item description.
- b. Issue of Department of Defense Index of Specifications and Standards (DoDISS) to be cited in the solicitation.
- c. Type of terminal adapter required.
- d. Selection of applicable level and packaging requirements.
- e. Part identification number (PIN) and quantity required.

7.3 Cross reference. Battery terminal adapters conforming to this CID are interchangeable/substitutable with battery terminal adapters conforming to MIL-A-55059 dated 16 February 1988.

7.4 Non-Government documents. SAE documents, are available from the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096. ASTM documents are available from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.5 Metric product. Battery terminal adapters that are to metric dimensions will be considered on the following basis:

- a. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest revision of ASTM E380, and all other requirements of this Commercial Item Description are met.
- b. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch/pound units, a request should be made to the contracting officer to determine if the product is acceptable.
- c. The contracting officer has the option of accepting or rejecting the product.

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MILITARY INTERESTS

Custodians:

Army - AT
Navy - MC
Air Force - 85

Review Activities:

Army - ME, MI
Air Force - 99
DLA - GS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

Preparing Activity:

Army - AT

(Project 5940-1187)