

INCH-POUND

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) as a replacement for MIL-A-55059D and MS75004G, which are canceled.

1.0 Abstract. This CID covers terminal adapters for mounting and fastening positive or negative electrical lead to tapered battery terminals utilizing the nuts and bolts provided within the terminal adapter (see figure 1).

1.2 Classification. Terminal adapters shall be of the following types:

Type I - Positive

Type II - Negative

2.0 Salient characteristics.

2.1 Materials. Materials shall be as specified herein. Materials shall be free of defects which adversely affect performance or serviceability of the finished product. The use of recovered material made in compliance with regulatory requirements is acceptable providing that all requirements of this CID are met (see 5.5).

2.1.1 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.

2.1.2 Insert. The insert used in the terminal adapter body shall be made of low carbon steel having minimum properties of 30,000 psi tensile strength, 20 % elongation, .047 inch thickness.

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

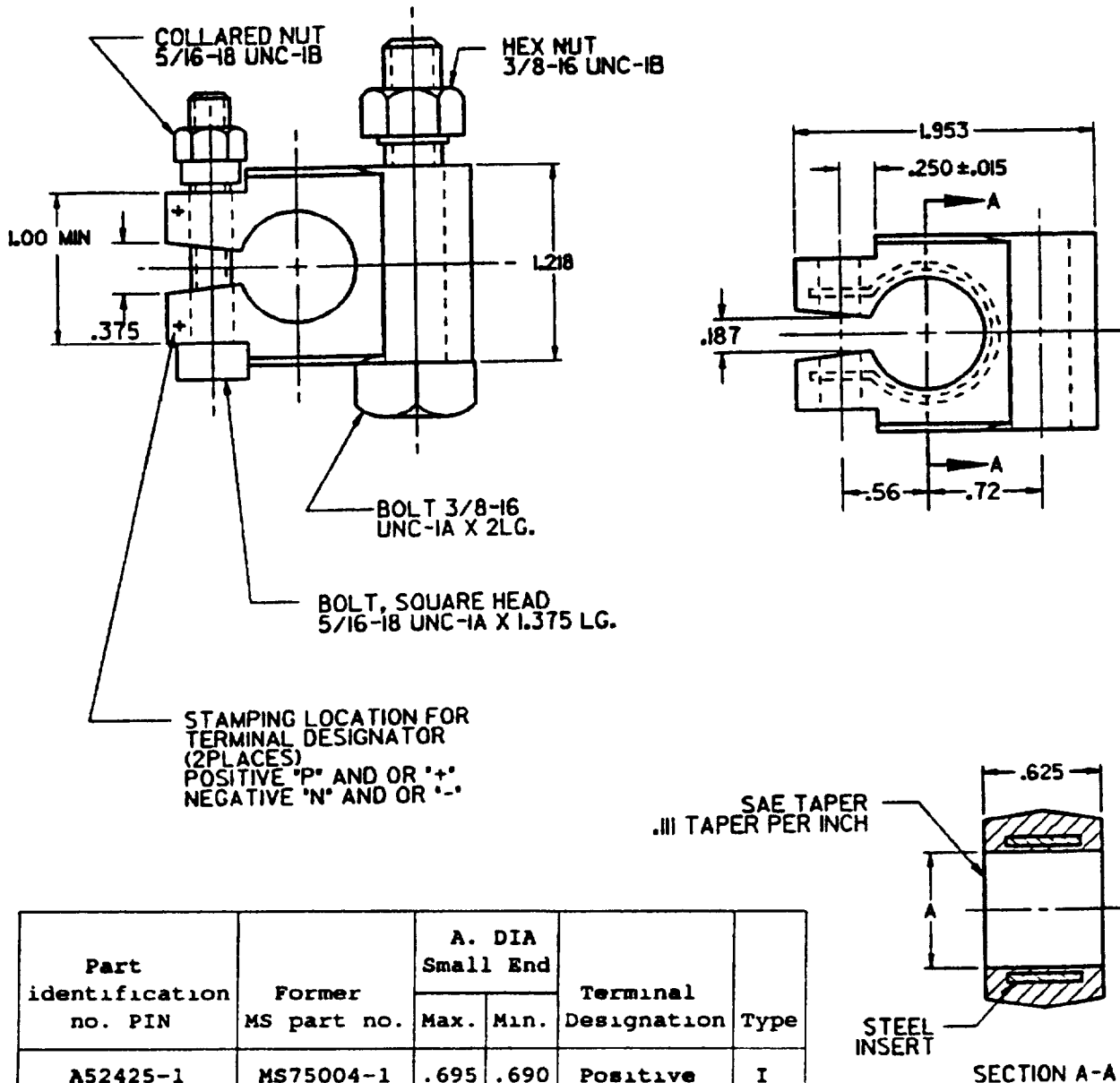
Beneficial comments, recommendations, additions, deletions clarifications, etc. and any other data which may improve this document should be sent by letter to: U.S. Army Tank-Automotive Command, ATTN: AMSTA-GDS, Warren, MI 48397-5000.

AMSC N/A

FSC 5940

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

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Part identification no. PIN	Former MS part no.	A. DIA Small End		Terminal Designation	Type
		Max.	Min.		
A52425-1	MS75004-1	.695	.690	Positive	I
A52425-2	MS75004-2	.633	.628	Negative	II

NOTE: NOT TO SCALE.

1. Dimensions are in inches. Unless otherwise specified, tolerances are $\pm .015$.
2. Clearance for bolt holes shall be suitable for bolts in drawing.

FIGURE 1. Battery terminal adapter configuration.

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2.2 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.

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

2.4 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).

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

2.6 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.

3.0 Quality assurance provisions.

3.1 Responsibility for inspection. The contractor is responsible for the performance of all inspections (examinations and tests).

3.2 Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this commercial item description and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. Items with known defects shall not be submitted for Government acceptance. The Government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

4.0 Preservation, packaging, packing, labeling, and marking. Preservation, packaging, packing, labeling, and marking shall be as specified in the contract (see 5.1).

5. Notes.

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

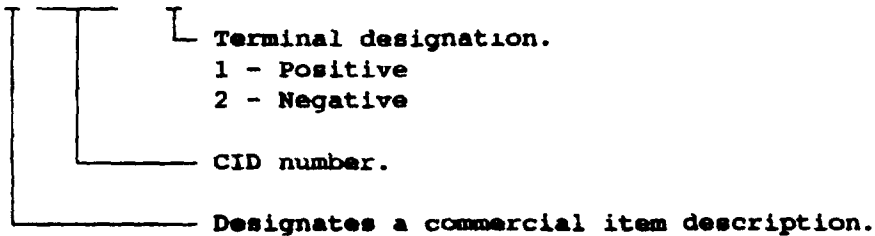
5.1 Ordering data. Acquisition documents must specify the following:

- 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 (see 1.2).
- d. Selection of applicable level and packaging requirements (see 4.0).
- e. PIN number and quantity required (see 5.2).

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5.2 Part or Identifying Number (PIN). The PIN to be used for battery terminal adapter acquired to this CID is created as follows:

A 00A28 - X



5.3 Cross references. Battery terminal adapters conforming to this CID are interchangeable/substitutable with battery terminal adapters conforming to MIL-A-55059D, dated 16 February 1988 and MS75004G, dated 27 May 1987.

5.4 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.

5.5 Regulatory requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

Custodians:

Army - AT
Navy - MC
Air Force - 85

Preparing activity:

Army - AT

(Project 5940-1136)

Review activities:

Army - MI
Air Force - 99
DLA - GS

User activities:

Army - ER, ME