

INCH-POUND

A-A-52484  
January 4, 1994  
SUPERSEDING  
MIL-C-62005A  
30 September 1982  
MS35746F  
2 September 1981  
MS35748E  
28 January 1974

COMMERCIAL ITEM DESCRIPTION

COUPLER, AUTOMOTIVE AIR BRAKE LINE:  
QUICK-DISCONNECT

The General Services Administration has authorized the use of this commercial item description (CID) as a replacement for MIL-C-62005A, MS35746F, and MS35748E, which are canceled.

ABSTRACT

This CID covers requirements for a quick-disconnect air brake line coupler half with a replaceable preformed packing designed for use on pneumatic hose where rapid coupling and uncoupling is required, and on vehicles where a low-pressure, quick-disconnect connection for air brake lines is needed.

SALIENT CHARACTERISTICS

a. Materials. Unless otherwise specified herein, the materials used shall be in accordance with the manufacturer's materials specifications/drawings. The use of recovered material made in compliance with regulatory requirements is acceptable providing all the requirements of this CID are met (see note f.).

1. Metals. Metals used in construction of couplers shall be corrosion resistant or shall be protected to resist corrosion during the length of service.

2. Preformed packing. Preformed packing shall be made of synthetic rubber which shall meet the applicable performance specified herein.

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 4730

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

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b. Design and construction. Unless otherwise specified herein and in figure 1, couplers shall be designed and constructed to the form and dimensions in accordance with SAE J318. Couplers shall not have a service lug or other design features that would restrict interchangeability between service and emergency lines.

1. Preformed packing. The preformed packing shall be in accordance with figure 2.

2. Interchangeability. Coupler halves shall be physically and functionally interchangeable; any two, when randomly selected and joined together, shall form an airtight connection (see note e.).

c. Performance. Unless otherwise specified herein, the coupler shall meet the performance requirements of SAE J318. Low temperature testing shall be done at -65 degrees Fahrenheit (°F).

1. Thread tensile strength. Coupler halves shall withstand a tensile force of 1000 pounds (lbs) applied coincident with thread axis while exposed for 24 hours at an ambient temperature of -50°F +5°F followed by similar exposure at 250 +5°F without causing air pressure leak at threads.

2. Compression. Coupler halves shall withstand a load of 500 lbs applied perpendicularly to the sealing face on each locking jaw in the direction of force normally resulting from compression of packing. When loaded in this manner, there shall be no permanent set to the packing and coupling shall continue to operate after 24 hours exposure at -50° +5°F followed by 24 hours exposure at 200 +5°F ambient temperatures.

d. Identification and marking. Identification and marking shall be permanent and legible and shall include as a minimum, the manufacturer's CAGE code and part number, and the part identification number (PIN) (see figures 1 and 2).

#### QUALITY ASSURANCE PROVISIONS

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

b. Contract 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, workmanship 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.

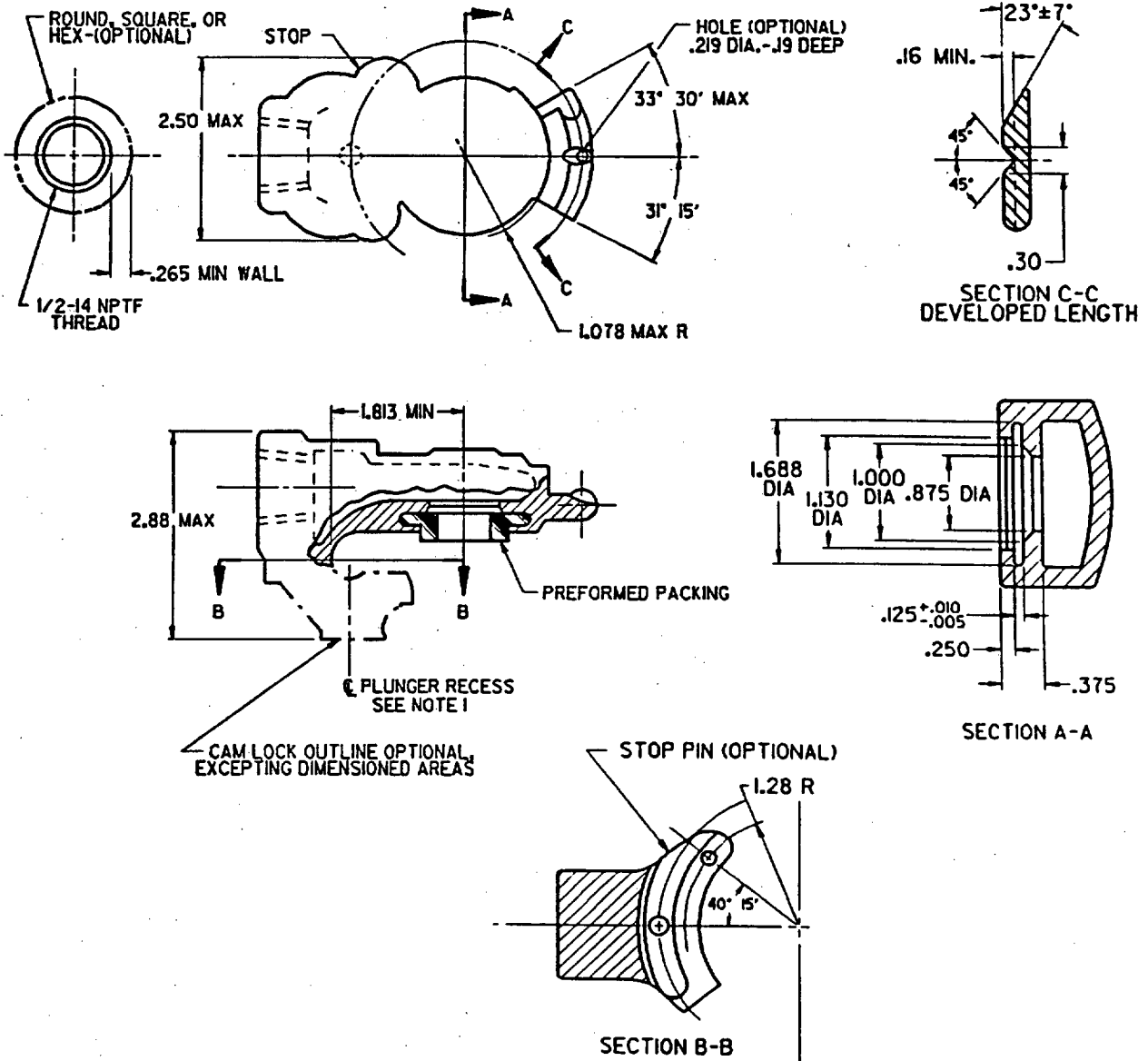
#### PRESERVATION, PACKAGING, PACKING, LABELING, AND MARKING

Preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order (see note b.).

#### NOTES

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

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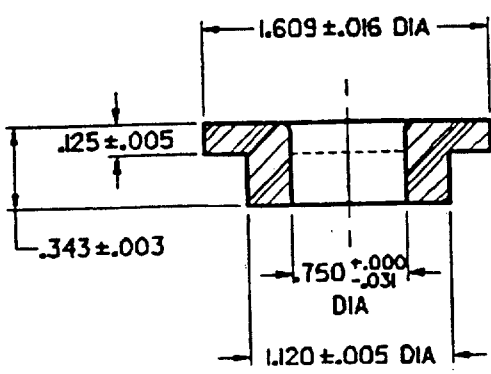


PIN	Former MS part number
A52484-1	MS35746-1

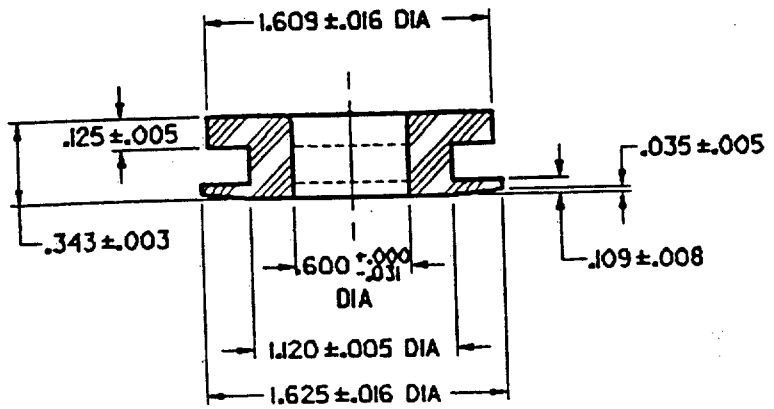
- NOTES:
1. A positive stop locking device shall be provided for positioning the mated couple. The type of stop is optional.
  2. Dimensions are in inches. Unless otherwise specified, tolerances are  $\pm .005$  on decimals, and  $\pm 1/2^\circ$  on angles.

FIGURE 1. Coupler half for automotive air brake line.

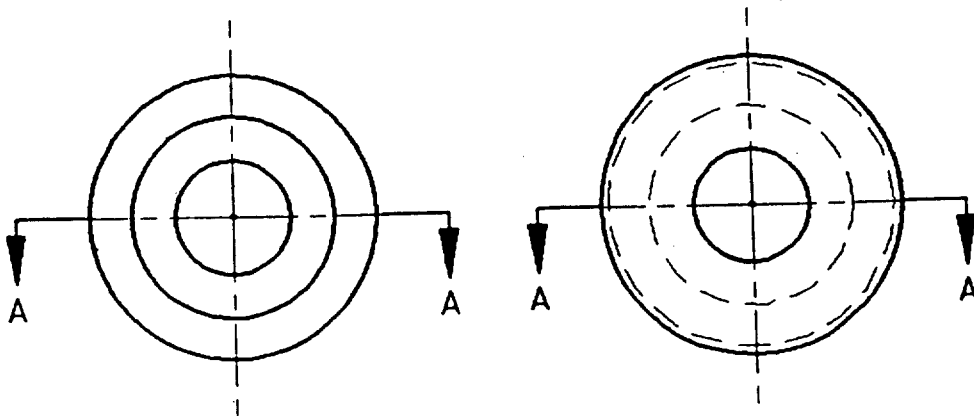
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SECTION A-A



SECTION A-A



OPTIONAL DESIGNS

PIN	Former MS part number
A52484-2	MS35748-1

NOTES:

1. Optional designs shown are interchangeable functionally and physically.
2. Dimensions are in inches.

FIGURE 2. Preformed packing.

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a. Addresses for obtaining copies of referenced documents. Copies of SAE J318, September 1980, "Air Brake Gladhand Service (Control) and Emergency (Supply) Line Couplers - Trucks, Truck-Tractors, and Trailers", are available from the Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096.

b. Ordering data. Acquisition documents must specify the following:

1. Title, number, and date of this CID.
2. Issue of the DODISS and industry standards to be cited in the solicitation.
3. PIN and quantity required.
4. If any additional markings are required.
5. Selection of applicable level and packaging requirements.

c. Cross reference data. Couplers conforming to this CID are interchangeable/substitutable with couplers conforming to MIL-C-62005A, dated 30 September 1982, MS35746F, dated 2 September 1981, and MS35748E, dated 28 January 1974.

d. Identification plate. See CID A-A-52483 for the identification plate used to identify the service and emergency air brake lines on military trailers.

e. International agreement. Certain provisions of this CID (see salient characteristics b.2, figures 1 and 2) are the subject of international standardization agreement (ABCA-QSTAG 310, and NATO STANAG 2604). When amendment, revision, or cancellation of this specification is proposed that will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices, to change the agreement or make other appropriate accommodations.

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

**MILITARY INTEREST:**Custodians:

Army - AT  
Air Force - 99

Review activity:

Army - ME, MI  
Air Force - 82  
DLA - CS

User activity:

Navy - MC

**CIVIL AGENCY COORDINATING ACTIVITY**

GSA - FSS

**PREPARING ACTIVITY:**

Army - AT

(Project 4730-0197)