

[INCH-POUND]
A-A-59892A
9 September 2013
SUPERSEDING
A-A-59892
02 August 2012

COMMERCIAL ITEM DESCRIPTION

COVER-CARGO-HEMTT-TRUCK

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. SCOPE. This commercial item description (CID) covers the general requirements for cover-cargo Heavy Expandable Mobility Tactical Truck (HEMTT). Cover-cargo (HEMTT) truck covered by this CID is intended for commercial/industrial applications.
2. CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN). This CID uses a classification system which is included in the PIN as shown in the following example (see 7.1).

<u>A-A-59892</u> <hr style="width: 50%; margin: 0 auto;"/> CID number	-	<u>34079</u> <hr style="width: 50%; margin: 0 auto;"/> FED-STD-595 Color code
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PIN example: A-A-59892-34079. See 3.1.2

3. SALIENT CHARACTERISTICS.

- 3.1 Interface and physical dimensions. Cover-cargo (HEMTT) truck supplied to this CID shall be as specified herein.

- 3.1.1 Drawing and dimensions. See figures 1 and 2.

- 3.1.2 Color code. Color as specified in contract using FED-STD-595 and color coding as shown in example as follows:

- Code 34079: Forest Green, in accordance with FED-STD-595.
- Code 33531: Sand, in accordance with FED-STD-595
- Code 33522: Tan, in accordance with FED-STD-595

- 3.2 Material. Cloth, coated, Nylon Waterproof in accordance with MIL-PRF-20696, type II, class 2 or 3. Material shall have the infrared reflectance properties in accordance with MIL-DTL-53039 or MIL-DTL-64159.

- 3.2.1. Stitching. If stitching is used, all stitching must be sealed for water proofing as follows.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data that may improve this document should be sent to: DLA Land and Maritime, ATTN: VAI, P.O. Box 3990, Columbus OH 43218-3990, or email fluidflow@dla.mil. Since contact information can change you may want to verify the currency of the address information using the ASSIST Online database at <https://assist.dla.mil/>.

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3.2.1.1 Recommended application procedure for seam sealant.

- a. Arrange the sewn seam flat onto a hard surface in such a way as to expose the stitched areas. Prepare surface for sealing by removing surface contaminants (talc, etc.) with process suitable for the seam sealer (see Para 3.2.1.4). Apply sealant to both sides of seam's stitching. The sealant bond to the cloth (see para 3.2) shall be at least 15 pounds per linear inch when tested as specified in ISO 2411
- b. Using a firm bristle brush, apply the sealant to the exposed seam, working the sealant under any overlapped seam flaps or so called "French Laps". Having applied the sealant, press the flaps back over and onto the drying sealant.
- c. Brush the sealant thoroughly over the stitching to penetrate and fill the needle holes.
- d. Allow sealant to dry for 10-20 minutes. High humidity retards drying of sealant
- e. Apply a generous second coat of sealant after the first coat has dried tack free.
- f. After the final coat has dried tack free, rub talc lightly onto the seams to avoid newly sealed areas from sticking together when folded.

3.2.1.3 Thread, stitching, and seams.

- a. Seam allowance may vary to suit manufacturer
- b. Thread: In accordance with A-A-59826, type II, class A, size FF. Color shall be black, as specified in FED-STD-595/27041 or green as specified in FED-STD-595/34079.
- c. Stitching: In accordance with ASTM-D6193, types 301 or 302, seam type SSb-2 (reference - Double stitch seam with edge turned under and captured by both stitches) and shall not have the Stitch and Seam Defects identified therein. Needle(s) shall be the size, length and point as recommended by their manufacturer for this thread and fabric. Stitching tolerance: +/- (1) stitch per inch

3.2.1.4 Sealant, seam (Vinyl coated fabrics), Sealant shall not be nitrocellulose based.

- a. Solvent – Based synthetic resin
- b. Color- Transparent, light straw
- c. Solids- 23% to 27%
- d. Viscosity- Brushable
- e. Stability-excess of 6 months.
- f. Adhesion strength – 15 to 20 lbs. per inch (peel force) as specified in ISO 11339.
- g. Net weight – Approximately 7 lbs./gal
- h. Flash point – To be specified – red label required.
- i. The sealer shall not result in the area to which is applied failing to meet the IR properties of MIL-DTL-53039 or MIL-DTL-64159.

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3.2 Tests.

3.3.1 Hydrostatic pressure and seam blocking tests. When tested as specified in FED-STD-191, methods 5514 and 5872, the sealed seams (see Para 3.2.1.1) shall not show any leakage and blocking shall be 3 or less, respectively. With procuring activity agreement, tests may be certified and certification and test report results supplied with order if requested.

3.3.2 Alternate to hydrostatic leak proof test as specified in FED-STD-191, methods 5514. With procuring activity agreement, cover seams shall be pressure leak-proof under continuous water spray (rain simulation) of 20 psi nozzle pressure minimum and 3.5 GPM minimum flow conditions when directed for 20 minutes minimum at seams and stitching at nozzle distance of 2 feet +/- .5 feet from cover.

3.3.3 Alternate to cloth seam blocking tests, as specified in FED-STD-191, method 5514. With procuring activity agreement, cloth seam blocking tests may be certified.

3.3.4 Certification. All tests must be certified and certification and test reports supplied when order requested it.

3.3.5 Bonding. If heat sealing or dielectric seam bonding is used, the mating areas of the cloth for the seal shall be suitably cleaned (see para 3.2.1.1.a, herein), the seam shall be at least 3/4 inch deep and the bond shall not fail when tested according to ISO 11339 and the seams edges shall be completely bonded. Bonding temperature shall be less than 220 degrees Centigrade. Bonded seams shall meet the same waterproofing and blocking requirements as stitched seams (see paras 3.3.1, 3.3.2 and 3.3.3). Bonding shall not result in the bonded area failing to meet the IR properties of MIL-DTL-53039 or MIL-DTL-64159.

3.3.6 Rope. Color shall be black as specified in FED-STD-595/27041 or green as specified in FED-STD-595/34079. All the fiber rope cut end fibers shall be melted together.

3.3.6.1 Tie Down Rope. Tie down rope shall be fiber rope as specified in ISO 1140 A-6-PA-1 or fiber rope as specified ISO 1140 A-6-PA-2.

3.3.6.2 Draw Rope. Draw rope shall be fiber rope as specified in ISO 1140 A-10-PA-1 or fiber rope as specified in ISO 1140 A-10-PA-2. Draw rope shall move freely in hem.

3.3.7 Grommet. Grommets shall be as specified in NASM 16491, Type III, Class 3, Size #4. See herein; View A-A, Figure 2

3.3.8 Reinforcement pads. The reinforcement pads shall be same cloth and 2 layers thick (so there would be 3 layers of cloth). The dimensions are as shown on figure 1, at least 10 X 20 inches and stitched or heat sealed in place using same seal width or same stitch length as tarpaulin.

3.3.9 Fiber rope sleeves. Fiber rope sleeves shall be as sized and in quantity for loop to hold a minimum of 500 pounds. At least two sleeves shall be used. Minimum spacing between them shall be 1.5 inches. Crimping of the sleeve shall be with the tool identified by the fiber rope sleeve's manufacture for this application

3.4 Marking. Cover-cargo (HEMTT) truck supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN. (NOTE: The part number marked on the unit pack shall be the CID PIN as specified in MIL-STD-129)

3.5 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.6 Workmanship. Cover-cargo (HEMTT) truck shall be processed in such a manner as to be uniform in quality and shall be free from other defects that will affect life, serviceability, or appearance.

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4. **REGULATORY REQUIREMENTS.** The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with 23.403 of the Federal Acquisition Regulation (FAR).

5. **PRODUCT CONFORMANCE 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.

5.2 Certification. This CID requires a certification to assure proper rain proof testing is done in accordance with FED-STD-191, methods 5514.1, and 5872 or as specified in 3.3.5. And have the application of infrared reflectance properties in accordance with MIL-DTL-53039 or MIL-DTL-64159. And the seam and stitching or seam bonding, and loop strength, as applicable, as specified herein by paras 3.2.1.1, 3.2.1.3, 3.3.5 and 3.3.9.

6. **PACKAGING.** Preservation, packing, and marking shall be as specified in the contract or order.

7. **NOTES.**

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format example.

7.2 Environmentally preferable material. Environmentally preferable materials should be used to the maximum extent possible to meet the requirements of this specification. As of the dating of this document, the U.S. Environmental Protection Agency (EPA) is focusing efforts on reducing 31 priority chemicals. The list of chemicals and additional information is available on their website <http://www.epa.gov/osw/hazard/wastemin/priority.htm>. Included in the EPA list of 31 priority chemicals are cadmium, lead, and mercury. Use of these materials should be minimized or eliminated unless needed to meet the requirements specified herein (see Section 3).

7.3 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these cover-cargo (HEMTT) truck to DLA Land and Maritime under the Parts Management Advisory Team (PMAT) evaluation program, CAGE code 58536 should be used. For further information, contact DLA Land and Maritime, ATTN: VSC, Post Office Box 3990, Columbus, OH 43218-3990, or email at DSCC.PartsSupport@dla.mil

7.4 Source of documents.

FEDERAL STANDARD

MIL-STD-129	-	Military Marking for Shipment and Storage
FED-STD-191	-	Textile Test Methods
FED-STD-595	-	Colors Used in Government Procurement
FED-STD-595/27041	-	Black Semigloss
FED-STD-595/34079	-	Green, Flat or Lusterless
FED-STD-595/33531	-	Yellow, Flat or Lusterless
FED-STD-595/33522	-	Brown, Flat or Lusterless

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COMERCIAL ITEM DESCRIPTION

A-A-59826 - Thread, Nylon

DEPARTMENT OF DEFENSE SPECIFICATIONS

MIL-PRF-20696 - Cloth, Waterproof, Weather Resistant
 MIL-DTL-53039 - Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant
 MIL-DTL-64159 - Camouflage Coating, Water Dispersible Aliphatic Polyurethane, Chemical Agent Resistant

(Copies of these documents are available online at <http://quicksearch.dla.mil/> or from the DLA Document Services Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094).

FEDERAL REGULATIONS

FAR - Federal Acquisition Regulations (FAR)

(Copies of these documents are available online at www.acquisition.gov/comp/far/index.html or from U.S. Government Printing Office, 732 North Capital Street, NW, Washington D.C. 20401.)

AEROSPACE INDUSTRIES ASSOCIATION (AIA)

AIA/NAS NASM16491 - GROMMET, METALLIC, GENERAL SPECIFICATION FOR

(Copies of these documents are available online at <http://www.aia-aerospace.org> or from the Aerospace Industries Association, 1000 Wilson Boulevard, Suite 1700, Arlington, VA 22209-3901.)

ASME INTERNATIONAL

ASME Y14.5 - Dimensioning and Tolerancing

(Copies of these documents are available online at <http://www.asme.org> or from the ASME International, Three Park Avenue, New York, NY 10016-5990.)

ASTM INTERNATIONAL

ASTM D6193 - Standard Practice for Stitches and Seams

(Copies of these documents are available online at <http://www.astm.org> or from the ASTM International, P.O. Box C700, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.)

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

ISO 2411 - Rubber- or Plastics-Coated Fabrics - Determination of Coating Adhesion - Third Edition
 ISO 1140 - Fibre ropes - Polyamide - 3-, 4-, 8- and 12-strand ropes - Fourth Edition
 ISO 11339 - Adhesives - T-peel test for flexible-to-flexible bonded assemblies - Third Edition

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(Copies of these documents are available online at www.ansi.org or from the ANSI Customer Service Department, 25 W. 43rd Street, 4th Floor, New York, NY 10036.)

7.5 Ordering data. The contract or order should specify the following:

- a. CID document number, revision and CID PIN.
- b. Product conformance provisions (see 5.1).
- c. Test results (see 5.1).
- d. Hydrostatic pressure and seam blocking tests (see 3.3.1).
- e. Alternate pressure leak proof test, (see. 3.3.2).
- f. Alternate to cloth seam blocking tests (see 3.3.3).
- g. Test certification (see 5.2).
- h. Packaging requirements (see 6.).

7.6 Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers of commercial products. At the time of CID preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

MFG's CAGE

MFR's name and address

2H635

D.C. HUMPHR
5000 PASCHALL AVE.
PHILADELPHIA, PA., 19143
(215) 724-8181
rnb@coversports.com
rnb@humphrys.biz

54799

BRETON INDUSTRIES
1 SAM STRATTON RD. ,P.O. BOX 429
AMSTERDAM, NY, 12010
(518) 842-3030
mmalizia@bretonindustries.com

56101

JOHN JOHNSON COMPANY THE
274 S. WATERMAN
DETROIT, MI, 48209
(313) 849-5209
govtsales@jjcompany.com

1RLH6

HOFFMAN FABRICATING LLC
909 E. WATERMAN
WITCHTA, KS, 67202
(316) 262-6041
shala@hoffmannfabricating.com

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.7 Government users. To acquire information on obtaining these Cover-cargo-HEMTT-truck from the Government inventory system, contact DLA Land and Maritime, ATTN: DLA Land and Maritime Call Center (–NAB), P.O. Box 3990, Columbus, OH 43218–3990 or telephone (614) 692-2271 or (614) 692-3191.

7.7.1 National stock number (NSN). The following is a list of NSN's assigned which correspond to this CID. The list is for information only and may not be indicative of all possible NSN's associated with the CID. For up to date information on assigned NSN's, please contact the aforementioned DLA Land and Maritime office (See 7.7).

TABLE I. NSN's.

Dash number A-A-59892	NSN
001	2540-01-182-2847

7.8 Legacy.

MIL-E-52798 is superseded by MIL-DTL-53039 or MIL-DTL-64159

MIL-C-20696 is superseded by MIL-PRF-20696

V-T-295 is superseded by A-A-59826

FED-STD-751 is superseded by ASTM-D6193

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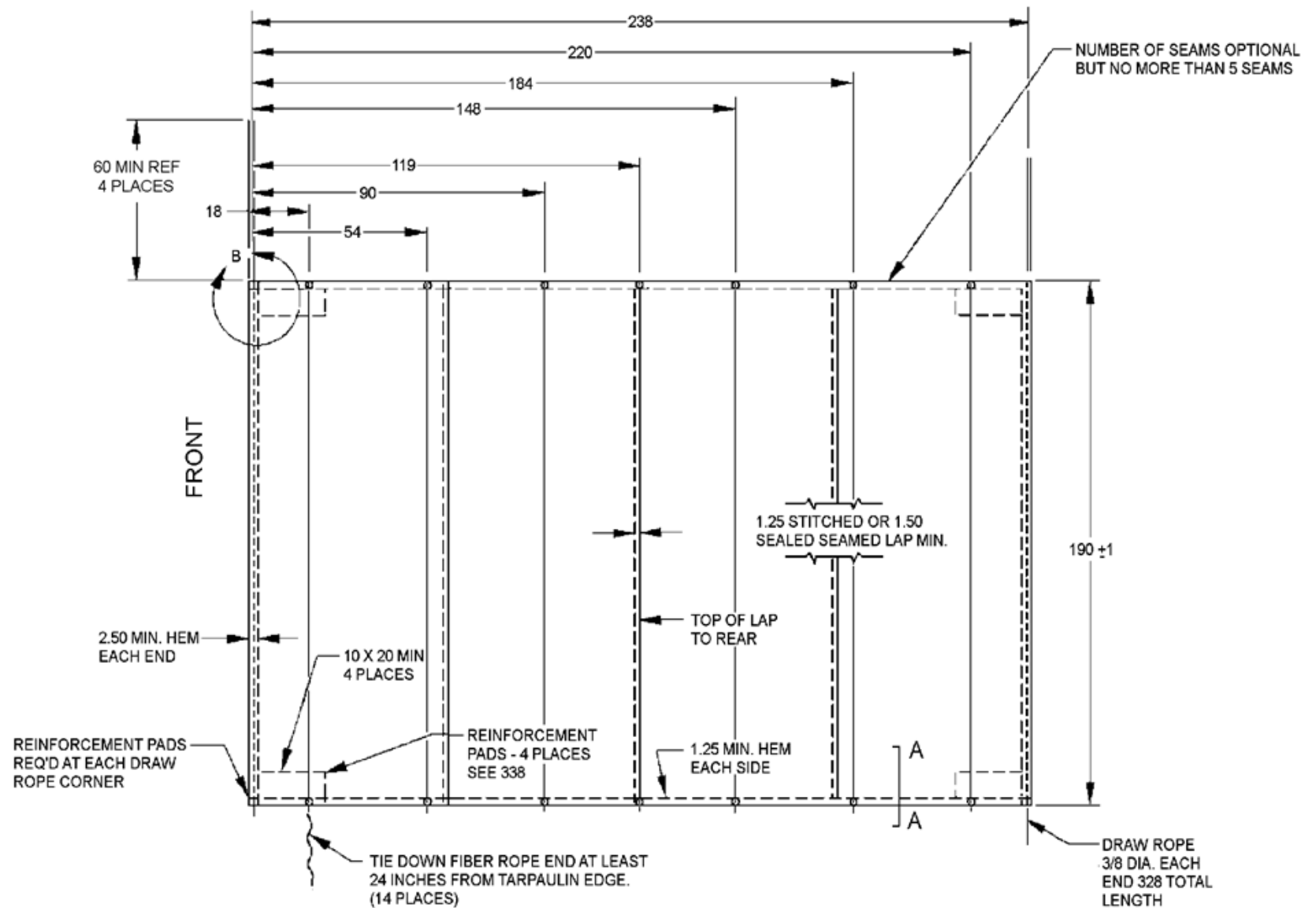
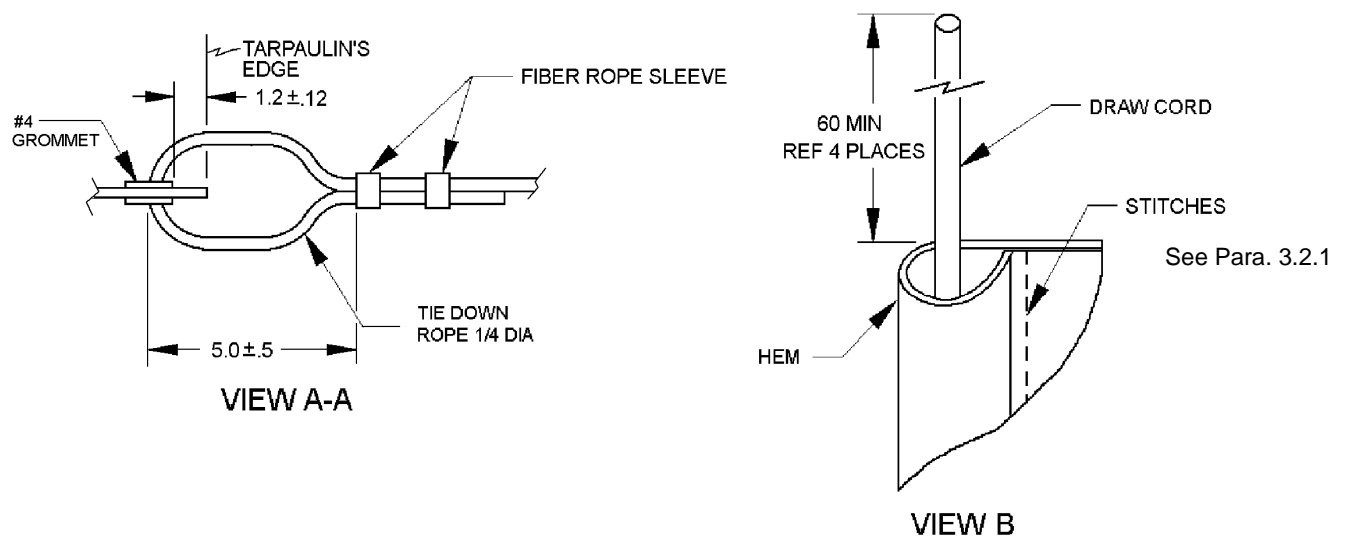


FIGURE I. Cover HEMTT truck dimensions of tarpaulin

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NOTES:

1. All dimensions in Inches.
2. Unless otherwise specified all tolerances are ± 0.5 inches.
3. Dimensioning and tolerancing: ASME Y14.5
4. The witness lines locate the centers of the grommets." The centers of the grommets need to be positioned along the 238 (inch) dimension of the tarpaulin. The edge's location is controlled by view A-A.

FIGURE I. Cover HEMTT truck dimensions of tarpaulin - continued.

NOTES:

1. All dimensions in Inches.
2. Unless otherwise specified all tolerances are ± 0.5 inches.
3. Dimensioning and tolerancing: ASME Y14.5

FIGURE 2. Fiber rope sleeve, through seem views.

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MILITARY INTERESTS:

Custodians:

Army – AT
Navy –MC
Air Force – 99
DLA-CC

Reviewer activities:

Army –GL,MR
Navy – SA
Air Force –71
DLA-CT

CIVIL AGENCY COORDINATION ACTIVITY
GSA-FSA

Preparing activity:
DLA-CC

Project: 2540-2013-007

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.