



DEFENSE LOGISTICS AGENCY
LAND AND MARITIME
P.O. BOX 3990
COLUMBUS, OHIO 43218-3990

September 4, 2025

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Initial Draft of: MIL-DTL-23326B
Project Number: 4030-2025-001

The initial draft for the subject document, is now available for viewing and downloading from the DLA Land and Maritime-VA Web site:

<https://landandmaritimeapps.dla.mil/programs/milspec/default.aspx>

Major changes to this document include MIL-T-23326 Rev A is referencing 2 canceled document. This document was last updated 1984; requires updates per MIL-STD-961.

Concurrence or comments are required at this Center within 30 days from the date of this letter. Late comments will be held for the next coordination of the document. Comments from military departments must be identified as either "Essential" or "Suggested". Essential comments must be justified with supporting data. Military review activities should forward comments to their custodians of this office, as applicable, in sufficient time to allow for consolidating the department reply. Lack of response to this draft will be construed as concurrence.

If this document is of interest to you, please provide your comments or suggested changes. The point of contact for this document is Mr. Ahmad, phone number 614-692-6015, e-mail Haseeb.Ahmad@dlam.mil, or may be mailed via the US Postal Service to DLA LAND AND MARITIME, ATTN: VAI (Attention: Haseeb Ahmad), P.O. Box 3990, Columbus, OH 43218-3990.

Sincerely,

/SIGNED/

ERIC J. CANDELARIA
Acting Chief,
Interconnection Branch

Note: This draft, dated 4 September 2025 and prepared by DLA-CC, has not been approved and is subject to modification. **DO NOT USE PRIOR TO APPROVAL.** (Project 4030-2025-001).

INCH-POUND

MIL-DTL-23326B
DRAFT
SUPERSEDING
MIL-T-23326A(SH)
28 December 1984

~~MILITARY SPECIFICATION~~
DETAIL SPECIFICATION

THIMBLE, SYNTHETIC ROPE

This specification Is approved for use by the ~~Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.~~ **by all Departments and Agencies of the Department of Defense.**

1. SCOPE

1.1 Scope. This specification covers ~~commercial~~ thimbles used with synthetic rope.

1.2 Classification. Thimbles shall be the sizes used with 1-1/8- to 10 inch circumference synthetic rope shown on figure 1, as specified (see 6.2).

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Standards. Unless otherwise specified, the following standards of the issue listed in that issue of the Department of Defense Index of Specification and Standards (DoDISS) specified in the solicitation form a part of this specification to the extent specified herein.

STANDARDS

MILITARY

~~MIL-STD-105—Sampling Procedures and Tables for Inspection by attributes.~~

~~MIL-STD-649—Aluminum and Magnesium Products, Preparation for Shipment and Storage.~~

(Copies of standards required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

~~Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document Should be addressed to: Commander, Naval Sea Systems Command*, SEA-55Z3, Department of the Navy, Washington, DC 20362 by using the self-addressed Standardization Document Improvement Proposal (DO Form 1426) appearing at the end of this document or by letter.~~

Comments, suggestions, or questions on this document should be addressed to DLA Land and Maritime, Attn: VAI, 3990 East Broad Street, Columbus, OH 43218-3990 or fluidflow@dla.mil. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online at <https://assist.dla.mil>.

AMSC N/A

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FSC 4030



2.2 ~~Other publications~~ Non-Government publications. ~~The following documents form a part of this specification to the extent specified herein. The issues of the documents which are indicated as DoD adopted shall be the issue listed in the current DODISS and the supplement thereto, if applicable.~~ The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

AMERICAN SOCIETY FOR QUALITY (ASQ)

ANSI/ASQ Z1.4 - Sampling Procedures and Tables for Inspection
By Attributes (DoD adopted)

(Copies of this document are available for purchase online at www.asq.org.)

ASTM INTERNATIONAL

ASTM B148 - Standard Specification for Aluminum-Bronze
Sand Castings.

(Copies of this document are available for purchase online at www.astm.org.)

~~(Application for copies should be addressed to ASTM, 1916 Race Street, Philadelphia, PA 19103.)~~

(Industry association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.),

2.3 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.

3. REQUIREMENTS

3.1 Design. The thimble shall be a one-piece aluminum bronze casting conforming to ASTM B 148, grade D, nonheat treated.

3.2 Thimble strength. Thimbles shall be of sufficient strength to pass the tests specified in 4.4.

3.3 Dimensions. Thimbles shall conform to the dimensions shown on figure 1, S as specified (see 6.2).

3.4 Identification. Each thimble shall be marked for identification by giving the rope size circumference and the wording "For Synthetic Rope" as shown on figure 1 (see 6.2 and 6.3). Figures shall be depressed in the casting. Rope circumference may be shown on one side, and the lettering on the other side, when the surface area does not permit all figures on one side.

3.5 Workmanship. The surface of the thimble shall be free from fins and burrs, to prevent snagging of the rope. Groove surfaces for the rope shall be a roughness no greater than 125-microinch finish. Edges shall be rounded full radius.

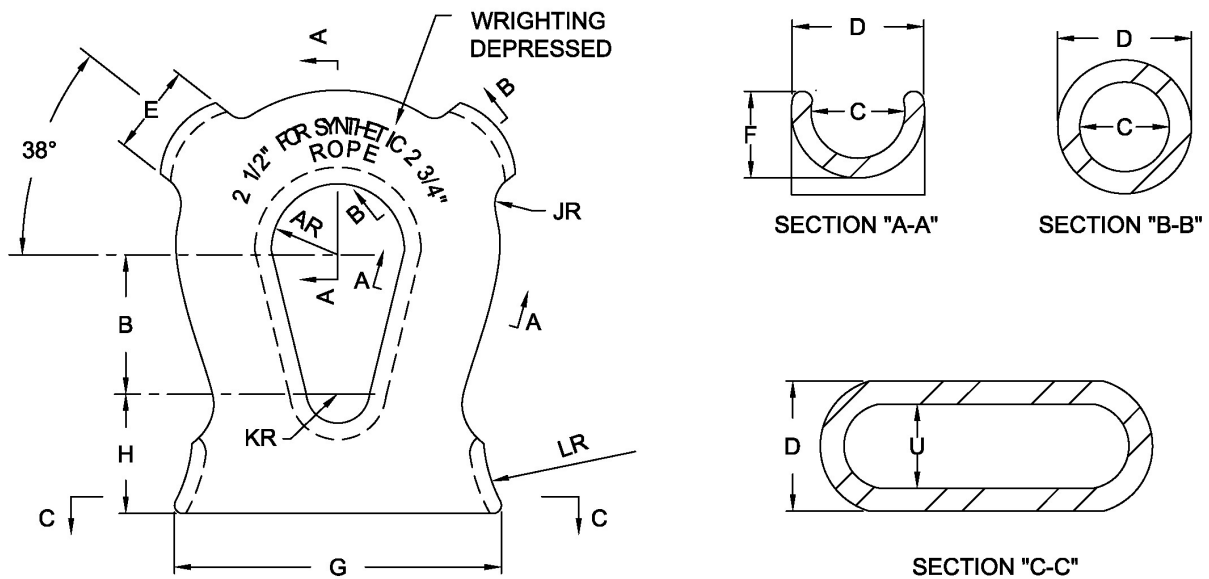


FIGURE 1. Thimble sizes and dimensions

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DRAFT DATED TBD August 2025

Rope diem. (reference)	Rope circum.	<u>2</u> /A	<u>2</u> /B	1/C	<u>1</u> /D	<u>2</u> /E	<u>2</u> /F	<u>2</u> /G	<u>2</u> /H	<u>2</u> /J	<u>2</u> /K	<u>2</u> /L	Anchor shackle size	Approx weight pounds
3/8-7/16	1-1/8-1/4	7/16	13/16	9/16	3/4	1/2	1/2	2-1/16	5/8	3/16	3/16	1	3/8	0.3
1/2-9/16	1-1/2-1-3/4	1/2	1	11/16	29/32	9/16	5/8	2-3/8	7/8	1/4	7/32	1-1/16	7/16	.5
5/8-3/4	2-2-1/4	9/16	1-3/16	7/8	1-1/8	5/8	3/4	3-1/8	.1	9/32	9/32	1-1/8	9/16	.6
13/16-15/16	2-1/2-2-3/4	3/8	1-7/16	1-1/16	1-3/8	3/4	13/16	3-3/4	1-3/16	3/8	5/16	1-3/16	5/8	.9
1	3	13/16	1-9/16	1-3/16	1-9/16	1	7/8	4-1/4	1-3/8	7/16	13/32	1-1/4	3/4	1.6
1-1/8-1-1/4	3-1/2-3-3/4	13/16	1-7/8	1-7/16	1-27/32	1-1/16	1	5-1/16	1-9/16	1/2	15/32	1-5/16	7/8	1.9
1-5/16	4	1-1/16	2	1-1/2	1-15/16	1-1/8	1	5-1/2	1-3/4	1/2	17/32	1-3/8	1	2.6
1-1/2	4-1/2	1-3/16	2-1/4	1-11/16	2-5/32	1-3/16	1-1/8	6-1/4	1-7/8	1/2	5/8	1-7/16	1	3.2
1-3/8	5	1-3/16	2-7/16	1-13/16	2-5/16	1-1/4	1-1/4	6-3/4	2-1/16	1/2	23/32	1-1/2	1—1/8	4.8
1-3/4	5-1/2	1-7/16	2-5/8	2	2-17/32	1-5/16	1-3/8	7-3/8	2-5/16	3/4	13/16	1-5/8	1—1/4	7.8
2 •	6	1-5/8	2-7/8	2-1/4	2-13/16	1-3/8	1-1/2	8-3/8	2-1/2	1	29/32	1-11/16	1—1/4	8.5
2-1/8	6-1/2	1-3/4	3-1/16	2-3/8	3	1-7/16	1-5/8	9	2-11/16	1	1	1-3/4	1—3/8	9.5
2-1/4	7	1-15/16	3-1/4	2-1/2	3-1/8	1-1/2	1-3/4	9-3/8	2-7/8	1	1-1/8	2	1—1/2	10.6
2-5/8	8	2-3/16	3-11/16	2-7/8	3-5/8	1-5/8	1-7/8	10-5/8	3-1/4	1	1-1/4	2-1/8	1—5/8	18.5
3	9	2-7/16	4-1/8	3-1/4	4-1/8	1-3/4	2	11-3/4	3-5/8	1-1/4	1-3/8	2-1/4	2	24.0
3-1/4	10	2-11/16	4-9/16	3-1/2	4-1/2	1-7/8	2-1/4	13-1/8	4	1-1/2	1-1/2	2-1/2	2	38.0

1/ Tolerance on dimensions C and D +0 / -3 percent.

2/ Tolerance on all other dimensions ± 8 percent.

FIGURE 1. Thimble sizes and dimensions.- Continued

4. QUALITY ASSURANCE PROVISIONS VERIFICATION

~~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 Conformance inspection.

4.1.1 Sampling.

4.1.1.2 Lot. Thimbles of the same size offered for delivery at the same time shall be considered a lot.

4.1.1.2 Sampling for examination and tests. A random sample of thimbles shall be selected from each lot in accordance with **ASQ Z1.4 MIL-STD-105**, for examination and tests, as specified in 4.2.2.1 and 4.2.2.2.

4.1.1.2.1 Sampling for examination. A random sample of thimbles shall be selected from each lot with normal inspection Acceptable Quality Level, (AQL) 2.5, for the examination specified in 4.3.

4.1.1.2.2 Sampling for strength testing. A sample of thimbles shall be randomly selected with an inspection level S-4, (AQL) 0.65, for tests specified in 4.4.

4.1.2 Examination. Each of the sample thimbles selected in accordance with 4.2.2 shall be visually and dimensionally examined to verify compliance with this specification. Examination shall be conducted as specified in table I. Any thimble in the sample containing one or more defects shall not be offered for delivery. If the number of defective thimbles in any sample equals or exceeds the acceptance number for that sample, as specified in 4.2.2.1, it shall be cause for rejection of the lot represented by the sample.

TABLE I. Classification of defects.

Categories	Defects
Critical:	Thimble does not pass load tests.
Major:	
101	Thimble material, not as specified (see 3.2). Dimensions not in conformance with
102	figure 1 within specified tolerances.
103	Groove for rope does not have the specified surface finish (see 3.5).
104	Thimble edges sharp and not rounded as specified (see 3.5).
105	Identification figures cast in thimble are not legible.
106	Casting is porous and has imperfections.
Minor:	None.

4.1.3 Strength tests. Sample thimbles shall be tested by the application of loads specified in table It. There shall be no permanent deformation or cracks as a result of the strength test. If the number of thimbles equals or exceeds the rejection number specified in 4.2.2.2, the lot shall be rejected.

TABLE II. Loading for strength tests.

Synthetic rope circumference	Test load
(Inches)	(Pounds)
1-1/8 – 1-1/4	4,900
1-1/2 - 1-3/4	7,700
2 - 2-1/4	12,600
2-1/2 – 2-3/4	17,600
3	24,200
3-1/2. – 3-3/4	36,300
4	41,200
4-1/2	50,600
5	62,700
5-1/2	74,800
6	89,000
6-1/2	99,000
7	121,000
8	150,700
9	187,000
10	222,000

4.1.3.1 Test shall be performed in a testing machine using synthetic rope to simulate actual working conditions.

4.1.4 Inspection of packaging. Sample packages and packs, and the inspection of the preservation-packaging, packing and marking for shipment and storage shall be in accordance with the requirements of section 5 and the documents specified therein.

5. PACKAGING

~~(The preparation for delivery requirements specified herein apply only for direct Government acquisition.)~~

5.1 Packaging. ~~Packaging, packing and marking. Thimbles shall be packaged level A or C, packed level A, B, or C as specified (see 6.2) and marked in accordance with MIL-STD-649, as applicable for castings. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When packaging of material is to be performed by DoD or in-house contractor personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activities within the Military Service or Defense Agency, or within the military service's system commands. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.~~

6. NOTES

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

6.1 Intended use. The thimbles covered by this specification are intended for use with synthetic rope, with the exception of emergency towing application.

6.2 ~~Ordering data~~ Acquisition requirements. Acquisition documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Size and quantity of thimbles (see 1.2 and 3.3).
- (c) Identification markings required (see 3.4).
- (d) Packaging requirements (see 5).
- ~~(d) Number of thimbles per shipping container, if desired.~~
- ~~(e) Levels of packaging and packing and marking requirements, (see 5.1).~~

6.3 Identification. In marking the thimble (see 3.4), the wording "For Plastic Rope" may be used until the tooling or pattern is required to be replaced.

6.4 ~~Changes from previous issue. Asterisks are not used in this revision to identify changes with respect to the previous issue, due to the extensiveness of the changes.~~ Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Preparing activity:
~~Navy SR~~
~~(Project 4030-N012)~~

CONCLUDING MATERIAL

Custodians:
Army - AT
DLA - CC

Preparing activity:
DLA - CC

(Project 4030-2025-001)

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>.