

MIL-W-3903D  
6 October 1983  
SUPERSEDING  
MIL-W-3903C  
5 October 1970

MILITARY SPECIFICATION  
WIRE ROPE ASSEMBLIES, SINGLE LEG  
(SLING TYPE)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers wire rope assemblies, single leg with plain end loops.

1.2 Classification. Wire rope assemblies shall be the following types and classes as specified (see 6.2):

Type I - Hand splice, wire rope, improved plow steel, fiber core.

Type II - Mechanical splice, wire rope, improved plow steel, independent wire rope core.

Class 1 - 6 x 19

Class 2 - 6 x 37

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: USA Mobility Equipment Research and Development Command, ATTN: DRDME-DS, Fort Belvoir, VA 22060 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 4010

## MIL-W-3903D

## 2. APPLICABLE DOCUMENTS

2.1 Government documents.

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

## SPECIFICATIONS

## FEDERAL

QQ-P-416	- Plating Cadmium (Electrodeposited).
RR-W-410	- Wire Rope and Strand.
PPP-B-601	- Boxes, Wood, Cleated-Plywood.
PPP-B-621	- Boxes, Wood, Nailed and Lock-Corner.

## MILITARY

MIL-H-13220	- Hook, Sliding Choker (For Use With Wire Rope).
MIL-C-16173	- Corrosion Preventive Compound, Solvent Cutback, Cold Application.
MIL-F-52553	- Fittings, Wire Rope.

## STANDARDS

## MILITARY

MIL-STD-105	- Sampling Procedures and Tables for Inspection by Attributes.
MIL-STD-129	- Marking for Shipment and Storage.
MIL-STD-130	- Identification Marking of US Military Property.
MIL-STD-889	- Dissimilar Metals.
MIL-STD-1186	- Cushioning, Anchoring, Bracing, Blocking and Waterproofing: With Appropriate Test Methods.
MIL-STD-1188	- Commercial Packaging of Supplies and Equipment.

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

MIL-W-3903D

2.2 Other publications. The following document(s) 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.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM B 633 - Electrodeposited Coating of Zinc on Iron and Steel.

(Application for copies should be addressed to the American Society for Testing and Materials, 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 Description. Wire rope assemblies (hereinafter called "slings") shall be as shown in figure 1 and as specified herein.

3.1.1 Characteristics. Each sling shall be fabricated from one continuous piece of new and unused wire rope with a loop at each end, secured with either a hand or swage sleeve splice, as shown in figure 1.

3.2 First article. When specified (see 6.2), a sample shall be subjected to first article inspection (see 4.3 and 6.3).

3.3 Material. Material shall be as specified herein. Material not specified shall be selected by the contractor and shall be new and unused and subject to all provisions of this specification.

3.3.1 Material deterioration and control. The slings shall be fabricated from compatible materials, inherently corrosion and deterioration resistant or treated to provide protection against the various forms of corrosion and deterioration that may be encountered in any of the applicable storage and operating environment to which the item may be exposed.

3.3.1.1 Dissimilar metals. Dissimilar metals shall not be used in intimate contact with each other unless protected against galvanic corrosion. Dissimilar metals and methods of protection are defined and detailed in MIL-STD-889.

3.3.1.2 Identification of materials and finishes. The contractor shall identify the specific material, material finish or treatment for use with components and sub-components, and shall make information available, upon request, to the contracting officer or designated representative.

3.3.2 Wire rope. Wire rope shall conform to RR-W-410, type I for preformed, regular lay, and shall be the size and finish specified in table I.

TABLE I. Wire rope sizes and finish for types I and II slings.

Item	Wire rope diameter	Finish
Types I and II		
Class 1	3/8 through 1-1/8 inches	Uncoated or galvanized as specified (see 3.7)
Class 2	1-1/4 through 2 inches	Uncoated or galvanized as specified (see 3.7)

#### 3.4 Design.

3.4.1 Type I. Type I slings shall conform to table III and shall consist of one continuous length of steel wire rope as specified in 3.3.2 with hand spliced eye loops on each end as shown in figure 1.

## MIL-W-3903D

3.4.1.1 Seizing. Seizing shall be of strand conforming to RR-W-410, type V, class 1, or wire, and shall be iron or annealed steel, as specified (see 6.2). Construction and dimensions shall be as specified in table II. A seizing of strand or wire shall cover the splice and adjacent strands, which were were unlaid during splicing. Seizing shall be tightly wound, each wrap of seizing laying against the preceding wrap, the ends twisted together, and laid against the rope.

TABLE II. Seizing strands size and construction.

Wire rope diameter (Inch)	Seizing strand		Seizing wire minimum diameter (Inch)
	Diameter (Inch)	Construction	
3/8	1/16	1 x 7	.080
1/2	3/32	1 x 7	.080
5/8	1/8	1 x 7	.080
3/4	1/8	1 x 7	.104
7/8 and larger	5/32	1 x 7	.104 and larger

3.4.1.2 Hand tucks. Hand-tucked splices shall be made by forming a loop and splicing the dead end into the live end of the rope. Each dead-end strand shall be given one forming tuck and three full tucks around the same strand in the body of the rope. One additional full tuck shall be made when splicing flexible wire ropes such as the 6 x 37 classification. Splices shall be lightly tapped to remove high spots and allow the strands to mesh.

3.4.1.3 Forming tucks. Forming tucks shall be made by prying two adjacent strands apart, inserting a dead-end strand into the opening, and passing the strand under one, two, or three adjacent strands in the body of the rope. The dead-end strand shall be set or locked tightly.

3.4.1.4 Full tucks. Full tucks shall be made by inserting a dead-end strand under a strand in the body of the wire rope and rotating it 360 degrees. The tucked strand shall be set or locked tightly. Each subsequent full turn of the dead-end strand around the live-end strand constitutes an additional full tuck.

3.4.1.5 Setting or locking. Setting or locking of a dead-end strand shall be accomplished by pulling the strand end in under considerable force. At the

## MIL-W-3903D

same time, a marlin spike, inserted in the same opening in the body of the rope, shall be rotated about the axis of the rope back to the start of the splice or to the previous tuck.

3.4.1.6 Tensile strength. Minimum tensile strength shall be as specified in table III.

3.4.2 Type II. Type II slings shall consist of one continuous length of steel wire rope as specified in 3.3.2, table IV, and with mechanically spliced eye loops on each end as shown in figure 1.

3.4.2.1 Mechanical splices. A mechanical splice shall be fabricated by pressing or swaging one or more metal sleeves over the rope junction.

3.4.2.2 Fittings. Swage sleeves shall conform to MIL-F-52553 or other swage sleeves that conform to the quality assurance provisions of MIL-F-52553.

3.4.2.3 Strand ends. Spliced strand ends shall be neatly cut. Burning shall not be permitted.

3.4.2.4 Tensile strength. Minimum tensile strength shall be as specified in table IV.

3.5 Choker hooks. When specified (see 6.2), a sliding choker hook shall be fitted between the loops of each sling. Hooks shall be the applicable size for the wire rope and shall conform to MIL-H-13220.

3.6 Dimensions. The length of the slings shall be the length from bearing point to bearing point when the loops lay natural and the length of the loop is approximately twice the width of the loop (see figure 1). The length of the sling and loop shall be as specified in table V, (see 6.2). The slings shall not vary from the length specified more than plus or minus 2 diameters of the wire rope used, or plus or minus 0.5 percent of sling lengths, whichever is greater.

3.7 Finish. Types I and II slings shall be finished as specified (see 6.2). When zinc-coated rope is specified, the metal sleeves of type II slings shall be zinc-coated in accordance with ASTM B 633, Fe/Zn 25, type II finish or cadmium plated in accordance with QQ-P-416, class 1, type II.

MIL-W-3903D

TABLE III. Strength requirements in tons (2,000 pounds) for type I, classes 1 and 2 slings.

Diameter Inches	RC <sub>1</sub> / (one leg vertical pull)		Proof load		Minimum breaking strength <sub>2</sub> /		Splice efficiency Percent
	Tons, uncoated	Tons, gal- vanized	Tons, uncoated	Tons, gal- vanized	Tons, uncoated	Tons, gal- vanized	
Class 1:							
3/8	1.1	.99	2.2	1.98	4.96	4.47	88
1/2	1.8	1.6	3.6	3.20	8.51	7.66	86
5/8	2.8	2.5	5.6	5.00	12.97	11.65	84
3/4	3.9	3.5	7.8	7.00	18.05	16.23	82
7/8	5.1	4.6	10.2	9.20	23.83	21.45	80
1	6.7	6.0	13.4	12.00	30.93	27.84	80
1-1/8	8.4	7.6	16.8	15.20	38.92	35.03	80
Class 2:							
1-1/4	9.8	8.8	19.6	17.60	45.51	40.96	80
1-3/8	12.	11.	24.0	22.00	54.83	49.36	80
1-1/2	14.	13.	28.0	26.00	65.05	58.54	80
1-5/8	16.	14.	32.0	28.00	76.2	68.58	80
1-3/4	19.	17.	38.0	34.00	88.06	79.18	80
1-7/8	22.	20.	44.0	40.00	100.65	90.58	80
2	25.	22.	50.0	44.00	113.95	102.86	80

<sup>1</sup>/<sub>1</sub> RC - Rated capacity is the maximum recommended load based on a safety factor of 5.  
<sup>2</sup>/<sub>2</sub> Strength requirements computed on the efficiency of the eye splice and 7-1/2 percent for testing variation.

MIL-W-3903D

TABLE IV. Strength requirements in tons (2,000 pounds) for type II, classes 1 and 2 slings.

Diameter Inches	RC <sub>1</sub> / (one leg vertical pull)		Proof load		Minimum breaking strength <sup>2</sup> /		Splice efficiency Percent
	Tons, uncoated	Tons, gal- vanished	Tons, uncoated	Tons, gal- vanished	Tons, uncoated	Tons, gal- vanished	
Class 1:							
3/8	1.2	1.1	2.4	2.2	5.90	5.31	95
1/2	2.2	2.0	4.4	4.0	10.35	9.31	95
5/8	3.4	3.1	6.8	6.2	16.11	14.50	95
3/4	4.9	4.4	9.8	8.8	23.04	20.74	95
7/8	6.6	5.9	13.2	11.8	31.14	28.03	95
1	8.5	7.6	17.0	15.2	40.41	36.37	95
1-1/8	10.	9.0	20.0	18.0	49.43	44.68	92.5
Class 2:							
1-1/4	12.	11.	24.0	22.0	57.84	52.05	92.5
1-3/8	15.	13.	30.0	26.0	69.74	62.76	92.5
1-1/2	17.	16.	34.0	32.0	82.69	74.42	92.5
1-5/8	20.	18.	40.0	36.0	97.12	87.41	92.5
1-3/4	24.	21.	48.0	42.0	112.00	100.80	92.5
1-7/8	27.	24.	54.0	48.0	127.75	114.97	92.5
2	30.	27.	60.0	54.0	144.37	129.94	92.5

<sup>1</sup>/<sub>1</sub> RC - Rated capacity is the maximum recommended load based on a safety factor of 5.  
<sup>2</sup>/<sub>2</sub> Strength requirements listed computed on the efficiency of the eye splice and 5 percent for testing variation.



MIL-W-3903D

TABLE V. Sling dimensions.

Sling No.	Length of sling	Length of eye	Length of serve	Diameter of wire rope
Dimensions of "A" Slings (see figure 1)				
1	3 ft.	4 in.	8 in.	1/2 in.
2	7 ft.	8 in.	8 in.	1/2 in.
3	20 ft.	10 in.	8 in.	1/2 in.
4	30 ft.	10 in.	8 in.	1/2 in.
5	40 ft.	10 in.	8 in.	1/2 in.
6	50 ft.	10 in.	8 in.	1/2 in.
7	30 ft.	12 in.	10 in.	5/8 in.
8	40 ft.	12 in.	10 in.	5/8 in.
9	50 ft.	12 in.	10 in.	5/8 in.
10	7 ft.	12 in.	12 in.	3/4 in.
11	20 ft.	12 in.	12 in.	3/4 in.
12	30 ft.	12 in.	12 in.	3/4 in.
13	40 ft.	12 in.	12 in.	3/4 in.
14	50 ft.	12 in.	12 in.	3/4 in.
15	20 ft.	13 in.	14 in.	7/8 in.
16	30 ft.	13 in.	14 in.	7/8 in.
17	40 ft.	13 in.	14 in.	7/8 in.
18	50 ft.	13 in.	14 in.	7/8 in.
19	20 ft.	14 in.	16 in.	1 in.
20	30 ft.	14 in.	16 in.	1 in.
21	40 ft.	14 in.	16 in.	1 in.
22	50 ft.	14 in.	16 in.	1 in.
23	20 ft.	18 in.	18 in.	1-1/8 in.
24	50 ft.	18 in.	18 in.	1-1/8 in.
Dimensions of "B" Slings (see figure 1)				
25	12 ft.	8 in.	6 in.	3/8 in.
26	16 ft.	10 in.	6 in.	3/8 in.
27	12 ft.	10 in.	8 in.	1/2 in.
28	20 ft.	12 in.	10 in.	5/8 in.

3.8 Identification. Identification shall be in accordance with MIL-STD-130. A metal tag shall be securely attached to each sling. Metal tags shall be corrosion resistant, .016 inch minimum thick steel, securely fastened adjacent to one of the eye spliced loops by corrosion resistant .047 inch minimum diameter wire. The tag shall have the following information etched or punched thereon:

MIL-W-3903D

## WIRE ROPE ASSEMBLY, SINGLE LEG (SLING TYPE)

NSN \_\_\_\_\_ Rope dia. \_\_\_\_\_ Grade \_\_\_\_\_  
 Length of assembly \_\_\_\_\_  
 Loop size \_\_\_\_\_  
 Contract no. \_\_\_\_\_ Date \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Rated capacity in short tons (2,000 pounds) \_\_\_\_\_

3.9 Workmanship. The slings shall conform to the quality and grade of product as specified in RR-W-410, and shall be free from imperfections such as protruding strands, sharp edges, burns, burrs and corrosion.

## 4. QUALITY ASSURANCE PROVISIONS

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.

4.1.1 Component and material inspection. The contractor is responsible for insuring that components and materials used are manufactured, examined, and tested in accordance with referenced specifications and standards.

4.2 Classification of inspection. Inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.3).
- b. Quality conformance inspection (see 4.4).
- c. Inspection of packaging (see 4.6).

4.3 First article inspection.

4.3.1 Examination. Two first article slings shall be examined as specified in 4.5.1. Presence of one or more defects shall be cause for rejection of both slings.

4.3.2 Tests. Two first article slings shall be tested as specified in 4.5.2, with one sling undergoing the proof test as specified in 4.5.2.1, and the other sling tested to destruction as specified in 4.5.2.3. Failure of either test shall be cause for rejection.

## MIL-W-3903D

4.4 Quality conformance inspection.

4.4.1 Lot. A lot shall consist of all slings of the same type, class, finish and wire rope diameter submitted at one time for acceptance.

4.4.2 Sampling. Sampling for examination and testing, shall be in accordance with MIL-STD-105, inspection level II. For destructive testing three samples from each lot of 100 or fewer slings produced shall be subjected to the test specified in 4.5.2.3.

4.4.3 Examination. Samples selected in accordance with 4.4.2 shall be examined for defects specified in 4.5.1. AQL shall be 2.5 percent defective for major defects and 6.5 for minor defects.

4.4.4 Tests. Samples selected in accordance with 4.4.2 shall be tested in accordance with 4.5.2. Failure of either test shall be cause for rejection of the entire lot represented by the sample.

4.5 Inspection procedure.

4.5.1 Examination. Slings shall be examined as specified herein for the following defects:

Major

101. Material not as specified or the materials are not resistant to corrosion or deterioration or treated to be made resistant to corrosion or deterioration for the applicable storage and operating environment.
102. Dissimilar metals as defined in MIL-STD-889 are not effectively insulated from each other.
103. Finish plan not adequate or the contractor does not have documentation available for identification of material, material finishes or treatments.
104. One or more wires broken or severed.
105. Wires not completely tucked into splices, or swages.
106. Hand splices not as specified.
107. Mechanical splices not as specified.
108. Dimensions not as specified.
109. Workmanship not as specified.

Minor

201. Protruding wire strand ends.
202. Seizing not as specified.
203. Strand ends cut by burning.
204. Identification marking illegible, incomplete, or missing.

## MIL-W-3903D

4.5.2 Tests.

4.5.2.1 Method of testing. Testing shall be done prior to any seizing when this is specified. The proof and destructive tests shall be a single-leg straight pull method. The slings shall be placed on a tensile testing machine using mandrels having a minimum diameter of 4 times the diameter of the wire rope used in the sling being tested. Load shall be applied through the movable mandrel at a uniform rate. An alternate test method may be used for heavy duty slings, using a hoist or crane. One terminal of the sling shall be attached to the hook and the other to the test load.

4.5.2.2 Proof load. Slings shall be tested for proof as specified in 4.5.2.1. Slippage of the swage fittings or nonconformance to the applicable minimum proof load specified in tables III or IV shall constitute failure of this test.

4.5.2.3 Ultimate tensile strength. Slings shall be tested as specified in 4.5.2.1 for ultimate tensile strength. Nonconformance to the applicable minimum breaking strength specified in tables III or IV shall constitute failure of this test.

4.6 Inspection of packaging.4.6.1 Quality conformance inspection of pack.

4.6.1.1 Unit of product. For the purpose of inspection, a completed pack prepared for shipment shall be considered a unit of product.

4.6.1.2 Sampling. Sampling for examination shall be in accordance with MIL-STD-105.

4.6.1.3 Examination. Samples selected in accordance with 4.6.1.2 shall be examined for the following defects. AQL shall be 2.5 percent defective.

<u>No.</u>	<u>Defect</u>	<u>A</u>	<u>B</u>	<u>Comm</u>
110.	Uncoated slings not preserved as specified.	5.1.1.1		5.1.2
111.	Unit packs not as specified.	5.1.1.3		5.1.2
112.	Unit pack weights exceed limitations.	5.1.1.3		5.1.2
113.	Exterior containers not as specified.	5.2.1	5.2.2	5.2.3
114.	Strapping not as specified.	5.2.1	5.2.2	
115.	Marking not as specified.	5.3.1	5.3.1	5.3.2

## MIL-W-3903D

## 5. PACKAGING

5.1 Preservation. Preservation shall be level A or commercial as specified (see 6.2).

5.1.1 Level A.

5.1.1.1 Uncoated slings. Uncoated slings shall be coated with preservative conforming to MIL-C-16173, grade 1.

5.1.1.2 Galvanized slings. Galvanized slings shall not require additional preservation.

5.1.1.3 Unit packs. Slings 10 feet or less in length, fabricated from wire rope less than  $\frac{3}{4}$  inch in diameter, shall be coiled or bundled at the option of the contractor  $\frac{1}{/}$ . Slings of other sizes shall be coiled or bundled as specified in table VI.

TABLE VI. Unit packs, level A.

Length of sling	Wire rope diameter	Unit pack	
		Quantity	Type
Over 10 feet	Less than $\frac{3}{4}$ inch	1 Ea.	Coil
10 feet or less	$\frac{3}{4}$ inch or larger	1, 2, 4 or $10\frac{1}{/}$	Bundle
Over 10 feet	$\frac{3}{4}$ inch or larger	1, 2, 4 or $10\frac{1}{/}$	Coil

$\frac{1}{/}$  Select largest quantity per coil or bundle for which total weight does not exceed 200 pounds.

5.1.1.3.1 Bundles. Slings shall be laid out straight and secured together with 16 gage soft annealed wire at three (3) equally spaced points along the length of the bundle. Each wire shall be wrapped around the bodies of the slings four (4) times before twisting the ends together.

5.1.1.3.2 Coils. Sling shall be coiled to the smallest practical and safe diameter and secured with 16 gage soft annealed wire at four (4) equally spaced points around the perimeter of the coil. Each wire shall be wrapped around the bodies of the coiled slings four (4) times before twisting the ends together. If the coil consists of one sling, two (2) of the four (4) ties shall pass through the end loops around the body and the loop before twisting the ends together. If a coil consists of more than one sling, each sling shall be coiled to the desired diameter and the end loops secured to the body as specified herein for a single sling coil. The slings shall then be evenly and neatly stacked to the appropriate height and secured together at the four (4) equally spaced points in the manner specified herein.

MIL-W-3903D

5.1.2 Commercial. Slings shall be preserved in accordance with the requirements of MIL-STD-1188.

5.2 Packing. Packing shall be level A, level B or commercial as specified (see 6.2).

5.2.1 Level A. Slings 3/4 inch in diameter or larger, preserved and unit packed as specified in 5.1, shall require no additional protection. Slings less than 3/4 inch in diameter and of like description, preserved and unit packed as specified in 5.1, shall be packed together in a close-fitting box conforming to PPP-B-601, overseas type, style optional or PPP-B-621, class 2, style optional, in quantities not to exceed the weight limitations of the applicable box specification. Blocking and bracing of the contents shall be as specified in MIL-STD-1186. Box closure and strapping shall be as specified in the applicable box specification or appendix thereto except that strapping shall be flat and that finish shall be B.

5.2.2 Level B. Level B packing shall be as specified in 5.2.1 for level A except that boxes shall be domestic type or class and that strapping need not be finish B.

5.2.3 Commercial. Slings, preserved as specified in 5.1, shall be packed in accordance with MIL-STD-1188.

5.3 Marking.

5.3.1 Levels A and B. In addition to any special or other identification marking required by the contract or purchase order (see 6.2), all bundles, coils and boxes shall be marked in accordance with MIL-STD-129.

5.3.2 Commercial. Commercial marking shall be in accordance with the requirements of MIL-STD-1188.

6. NOTES

6.1 Intended use. Slings are intended for use in cargo and material handling operations.

6.2 Ordering data. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. Type and class required (see 1.2).
- c. When a first article is required for inspection and approval and the number of units required (see 3.2).
- d. Whether seizing should be strand or wire, and of iron or annealed steel (see 3.4.1.1).
- e. When slings should be fitted with choker hooks (see 3.5).

MIL-W-3903D

- f. Length of slings (see 3.6).
- g. Wire rope finish required (see 3.7).
- h. Degree of preservation and degree of packing required (see 5.1 and 5.2).
- i. Any special marking (see 5.3.1).

6.3 First article. When a first article inspection is required, the item shall be tested and should be a first produced sling. The first article should consist of two or more units. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examinations, test, and approval of the first article.

Custodians:

Army - ME  
Navy - YD  
Air Force - 99

Preparing activity:

Army - ME

Project 3940-0161

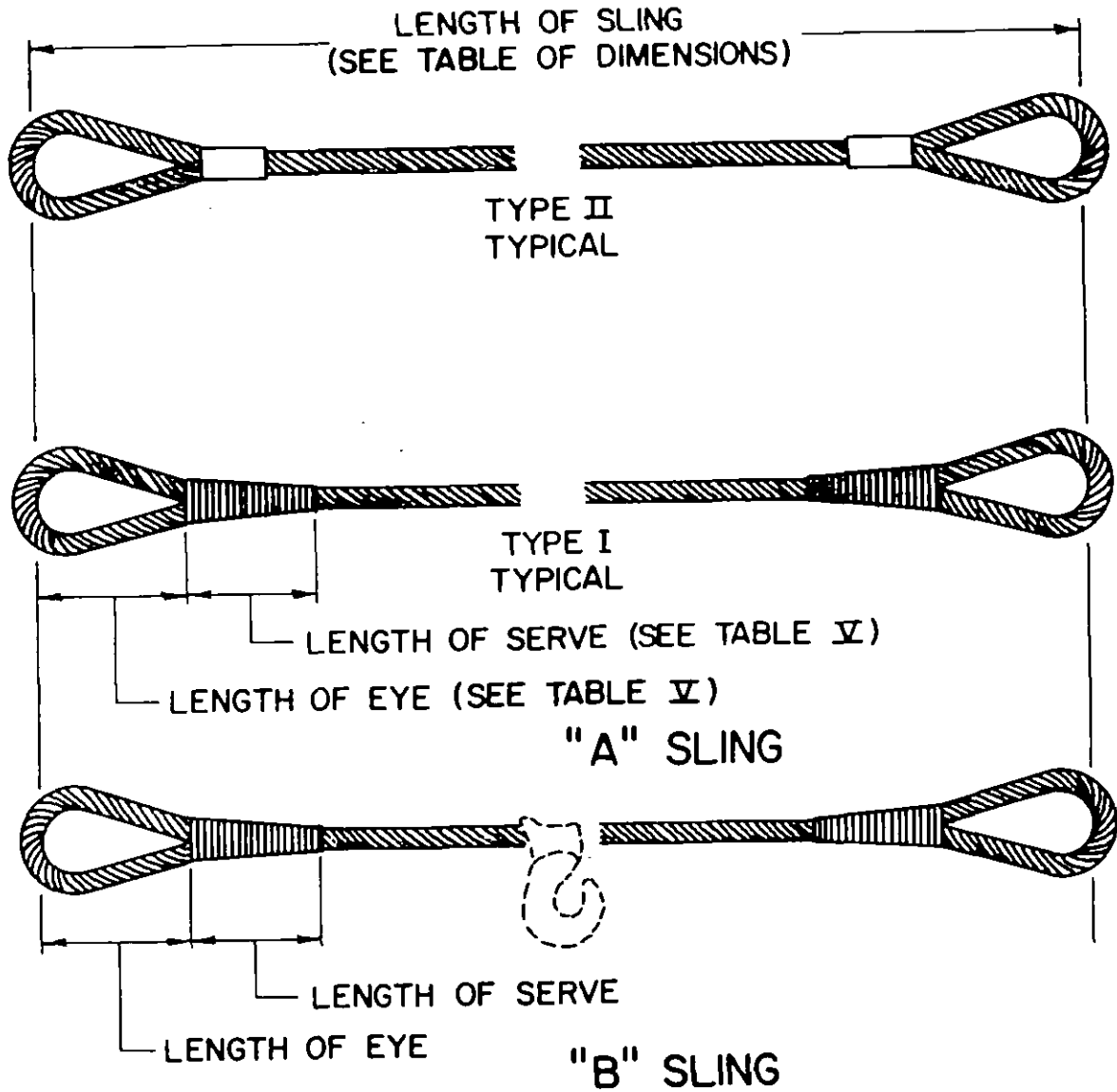
Review activities:

Navy - SH,  
DLA - IS, ES  
Army - AT

User activities:

Army - MI  
Air Force - 17  
Navy - OS

MIL-W-3903D



1. "B" SLING IS FURNISHED WITH CHOKER HOOK.
2. HOOK SIZE SHALL MATCH UP WITH ROPE SIZE.

FIGURE 1. Mechanical and hand splices.

X-1973B



**INSTRUCTIONS:** In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge (*DO NOT STAPLE*), and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

**NOTE:** This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

(Fold along this line)

(Fold along this line)

DEPARTMENT OF THE ARMY

USA BRAD Center  
DRDME-DS  
Fort Belvoir, VA 22060



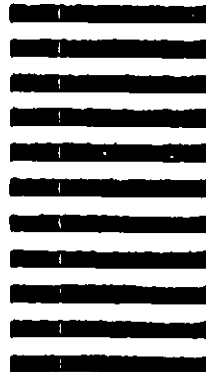
NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE \$300

**BUSINESS REPLY MAIL**  
FIRST CLASS PERMIT NO. 12062 WASHINGTON D. C.

POSTAGE WILL BE PAID BY THE DEPARTMENT OF THE ARMY

Commander  
US Army Belvoir Research and Development  
Center  
DRDME-DS  
Fort Belvoir, VA 22060



## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER MTI-W-3903D		2. DOCUMENT TITLE Wire Rope Assemblies, Single Leg (Sling Type)	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one) <input type="checkbox"/> VENDOR <input type="checkbox"/> USER <input type="checkbox"/> MANUFACTURER <input type="checkbox"/> OTHER (Specify): _____	
b. ADDRESS (Street, City, State, ZIP Code)			
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
6. REMARKS			
7a. NAME OF SUBMITTER (Last, First, MI) - Optional		b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional		8. DATE OF SUBMISSION (YYMMDD)	

(TO DETACH THIS FORM, CUT ALONG THIS LINE.)