

INCH-POUND

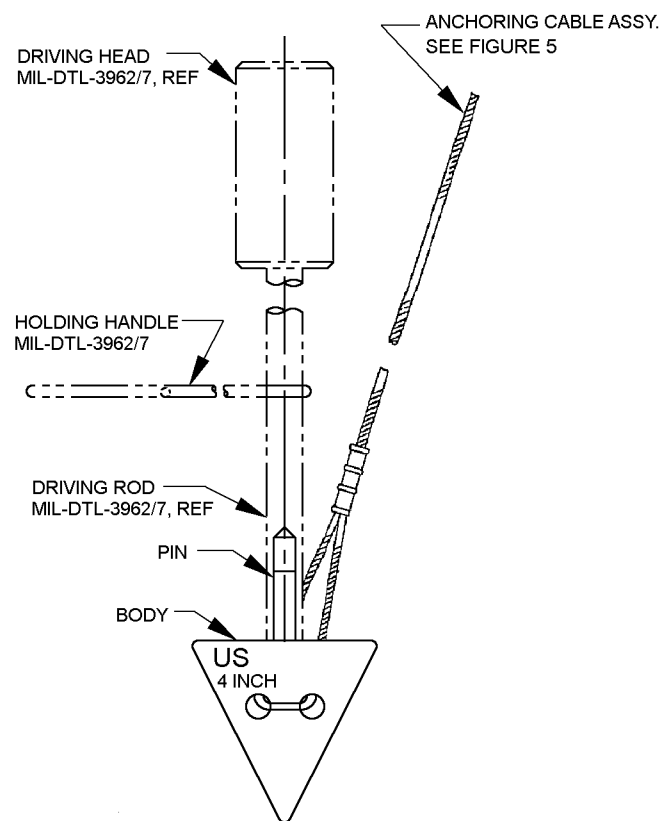
MIL-DTL-3962/2
w/ AMENDMENT 1
13 March 2020
MIL-DTL-3962/2
20 August 2015

DETAIL SPECIFICATION SHEET

ANCHORS, GROUND, ARROWHEAD, MALLEABLE IRON 4 INCH

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

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-3962.



NOTE: Body and pin dimensions see figure 4.

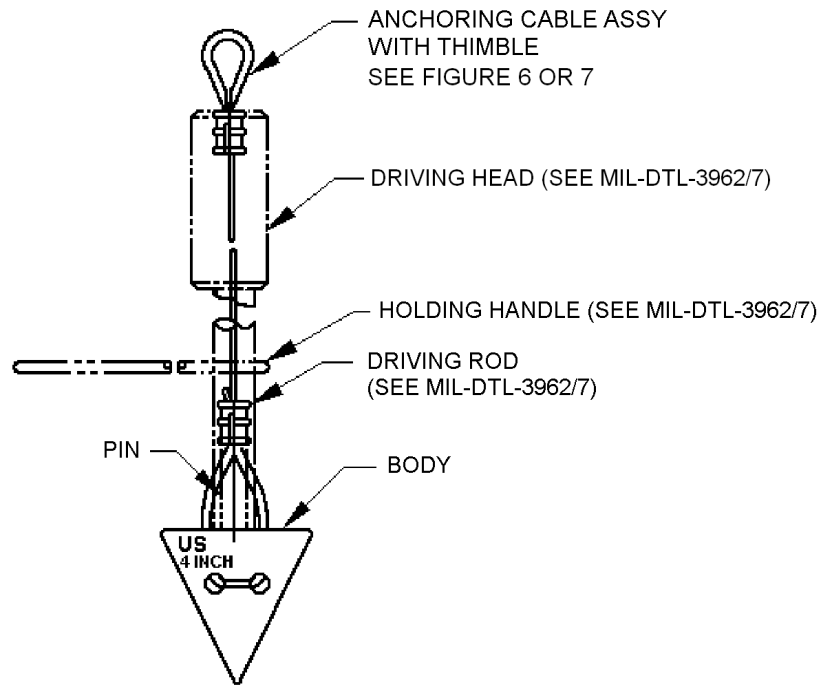
FIGURE 1. 4 inch ground anchor assembly grade B, style 1.

AMSC N/A

FSC 4030



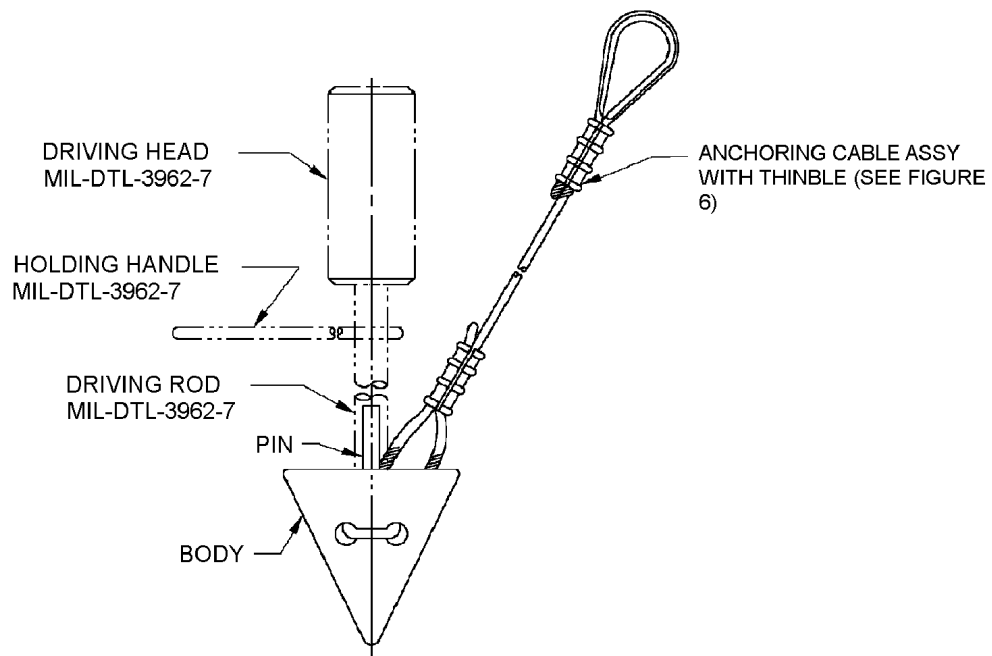
MIL-DTL-3962/2
w/ AMENDMENT 1



NO TE: Body and pin dimensions see figure 4.

FIGURE 2. 4 inch ground anchor assembly grade B, style 2 and 5.

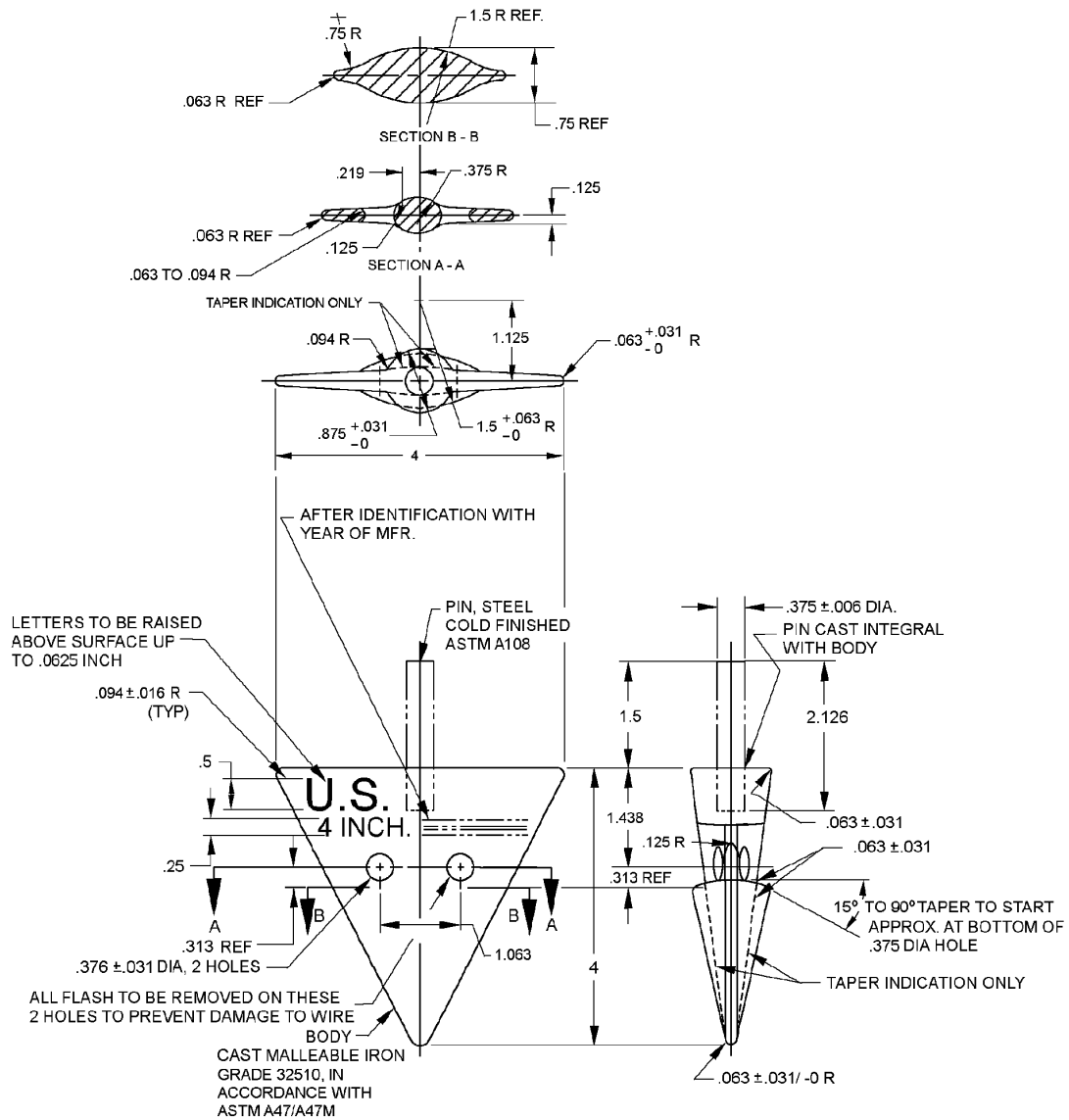
MIL-DTL-3962/2
w/ AMENDMENT 1



NOTE: Body and pin dimensions see figure 4.

FIGURE 3. 4 inch ground anchor assembly type I, grade B, style 2.

MIL-DTL-3962/2
w/ AMENDMENT 1



Inch	mm	Inch	mm
.031	0.79	.5	12.70
.063	1.60	.75	19.05
.094	2.39	.875	22.23
.125	3.18	1.063	27.00
.219	5.56	1.125	28.58
.25	6.35	1.438	36.53
.313	7.95	1.5	38.10
.375	9.53	2.126	54.00
.376	9.55		

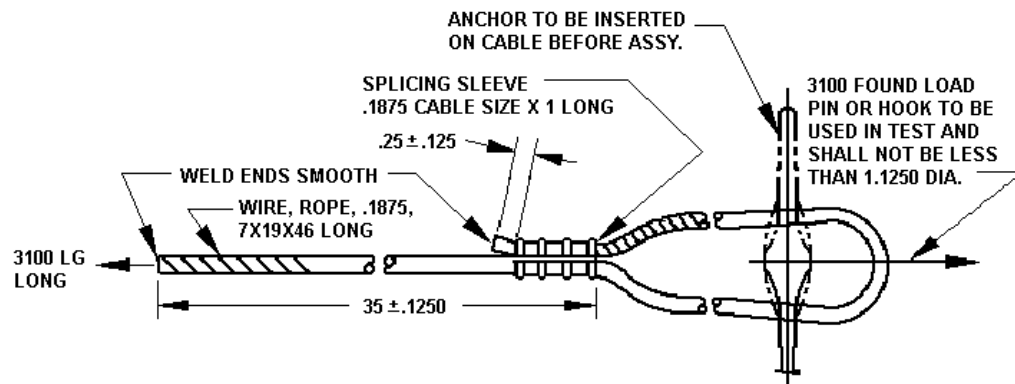
FIGURE 4. Body and pin.

MIL-DTL-3962/2
w/ AMENDMENT 1

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are $\pm .063$ inch (1.60 mm) and angles $\pm 3^\circ$, wire and metal gages excluded.
4. Casting to be free of fins and flash.
5. Break all sharp edges.

FIGURE 4. Body and pin - Continued.



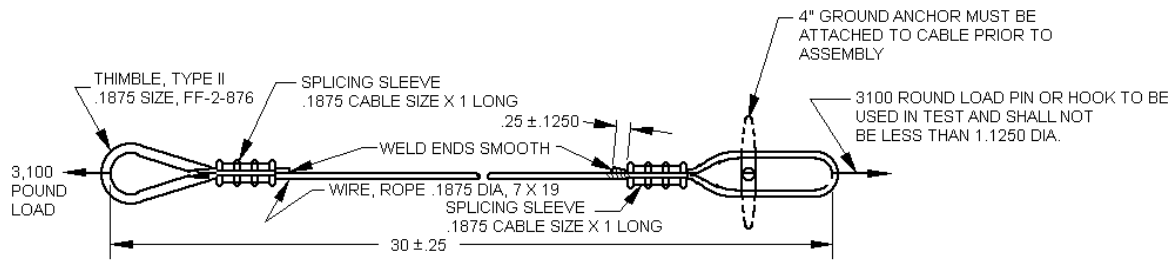
Inch	mm
.1250	3.18
.1875	4.77
.25	6.35
1.125	28.58
35.0	889
46.0	1168.4

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are $\pm .063$ inch (1.60 mm).
4. Wire rope shall be steel, type I, composition A, in accordance with MIL-DTL- 83420/1.
5. Proof load equal to breaking strength as specified in MIL-DTL-3962.

FIGURE 5. Anchoring cable assembly - 3100 pound load, grade B style 1.

MIL-DTL-3962/2
w/ AMENDMENT 1



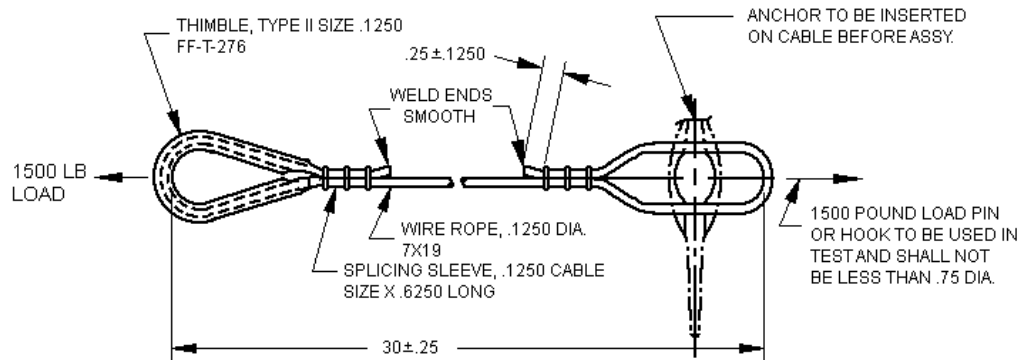
Inch	mm
.1250	3.18
.1875	4.77
.25	6.35
.75	19.05
30.0	762

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are $\pm .063$ inch (1.60 mm).
4. Wire rope shall be steel, type I, composition A, in accordance with MIL-DTL- 83420/1.
5. Proof load equal to breaking strength as specified in MIL-DTL-3962.

FIGURE 6. Anchoring cable assembly with thimble - 3100 pound load, grade B, style 2.

MIL-DTL-3962/2
w/ AMENDMENT 1



Inch	mm
.1250	3.18
.25	6.35
.625	15.88
.75	19.05
30.0	762

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are $\pm .063$ inch (1.60 mm).
4. Wire rope shall be steel, type I, composition A, in accordance with MIL-DTL- 83420/1.
5. Proof load equal to breaking strength as specified in MIL-DTL-3962.
6. Alternate construction, see figure 8.

FIGURE 7. Anchoring cable assembly with thimble - 1500 pound load, grade B, style 5.

REQUIREMENTS

Material:

Body grade B cast malleable iron grade 32510 in accordance with ASTM A47/A47M.

Pin steel in accordance with ASTM A108, cold finished.

Style and designator see table I.

MIL-DTL-3962/2
w/ AMENDMENT 1
TABLE I. Style and style designator.

Style designator	Description
A	Anchor (see figure 1)
1	Anchor (see figure 1) grade B, - cable without thimble, 3100-pound load, style 1, see figure 5
1C	Anchor (see figure 1) grade B - cable without thimble, 3100-pound load, style 1, see figure 5, with driving head, holding handle, and driving rod
2	Anchor (see figure 2) grade B, - cable with thimble, 3100-pound load, style 2. see figure 6
2C	Anchor (see figure 2) grade B, - cable with thimble, 3100-pound load. style 2, with driving head, holding handle, and driving rod, see figure 6
3	Anchor (see figure 3) type I, grade B, style 2 cable assembly with thimble, 3100-pound load, see figure 7
3C	Anchor (see figure 3) type I, grade B, style 2 - cable assembly with thimble, 3100-pound load, see figure 7, with driving head, holding handle, and driving rod
5	Anchor (see figure 2) grade B, style 5 - cable or wire with thimble, 3100-pound load, style 2, see figure 6
5C	Anchor (see figure 2) - cable or wire with thimble, 3100-pound load, style 2, see figure 6, with driving head, holding handle, and driving rod
5-36 <u>1/</u>	Anchor (see figure 2) - 36 inch cable or wire with thimble, 1500-pound load, style 5, see figure 7
5-36C <u>1/</u>	Anchor (see figure 2) -36 inch cable or wire with thimble, 1500-pound load, style 5, see figure 7, with driving head, holding handle, and driving rod
5-48 <u>1/</u>	Anchor (see figure 2) - 48 inch cable or wire with thimble, 1500-pound load, style 5, see figure 7
5-48C <u>1/</u>	Anchor (see figure 2) - 48 inch cable or wire with thimble, 1500-pound load, style 5, figure 7, with driving head, holding handle, and driving rod
5-60 <u>1/</u>	Anchor (see figure 2) - 60 inch cable or wire with thimble, 1500-pound load, style 5, see figure 7
5-60C <u>1/</u>	Anchor (see figure 2) - 60 inch cable or wire with thimble, 1500-pound load, style 5, see figure 7, with driving head, holding handle, and driving rod
5-120 <u>1/</u>	Anchor (see figure 2) - 120 inch cable or wire with thimble, 1500-pound load, see figure 7
5-120C <u>1/</u>	Anchor (see figure 2) - 120 inch cable or wire with thimble, 1500-pound load, style 5, see figure 7, with driving head, holding handle, and driving rod

1/ Same as figure 7, except 30 ± .25 inch dimension is replaced with 36, 48, 60 or 120 inches ± .25 inches.

See MIL-DTL-3962/7 for driving head, holding handle, and driving rod. Four inch anchors require the use a 4 foot driving rod .750 inch diameter.

Drive 2.5 feet minimum depth.

Finish (not applicable to zinc coated parts):

Paint Body and pin shall be coated with aluminum pigmented enamel or enamel, alkyd, conforming to MIL-DTL-53039, color designator, see table II.

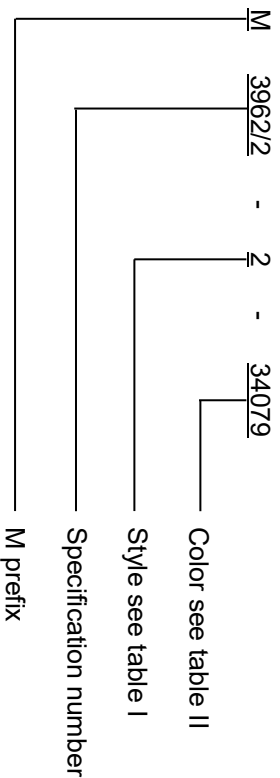
Holes in driving rods and driving heads shall be free of excess paint to ensure proper fit.

MIL-DTL-3962/2
w/ AMENDMENT 1
TABLE II. Color codes from SAE-AMS-STD-595. 1/

Color designator	Color
Blank	None
34079	Forest green in accordance with SAE-AMS-STD-595
33303	Sand in accordance with SAE-AMS-STD-595
33531	Tan in accordance with SAE-AMS-STD-595
38905	Weapons safety red

1/ See MIL-DTL-53039 for other coating colors.

PIN: The PIN consists of the prefix letter “M” the specification sheet number, a dash number for style, a dash, and color designator.



PIN examples:

M3962/2-1-34079 indicates a 4 inch anchor with a cable without thimble, forest green.

M3962/2-5-60C-33531 indicates a 4 inch anchor with a 60 inch cable or wire with thimble, with driving head, holding handle, and driving rod, tan.

Marking shall be as specified on figure 4.

Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

Referenced documents shall be of the issue in effect on date of invitations for bid.

Legacy. This slash sheet is a replacement for drawing 4-1-197, referenced in MIL-A-3962, dated 19 May 1986. Color designator 34079 is the original color of the accessories, see table III for supersession listing.

MIL-DTL-3962/2
w/ AMENDMENT 1

TABLE III. Supersession data.

Description	New PIN	Superseded PIN
Anchor 4 inch	M3962/2-A-34079	S294-1ANCH045-4795
Anchor grade B, style 1 - cable without thimble, 3100-pound load,	M3962/2-1-34079	484330
Anchor (see figure 2) grade B, style 2 - cable with thimble, 3000- pound load	M3962/2-2-34079	MIL-A-3962/SIZE4

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-DTL-3962, this document references the following:

FF-T-276	MIL-DTL-3962/7
SAE-AMS-STD-595	MIL-DTL-53039
SAE-AMS-STD-595/33303	MIL-DTL- 83420/1
SAE-AMS-STD-595/33531	ASTM A108
SAE-AMS-STD-595/34079	ASTM A47/A47M
SAE-AMS-STD-595/38905	

CONCLUDING MATERIAL

Custodians:

Army - GL
Navy - YD
Air Force - 71
DLA - CC

Preparing Activity:

DLA - CC

(Project 4030-2020-002)

Review Activities:

Army - EA, MD
Navy - SA

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>.