INCH-POUND
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SUPERSEDING
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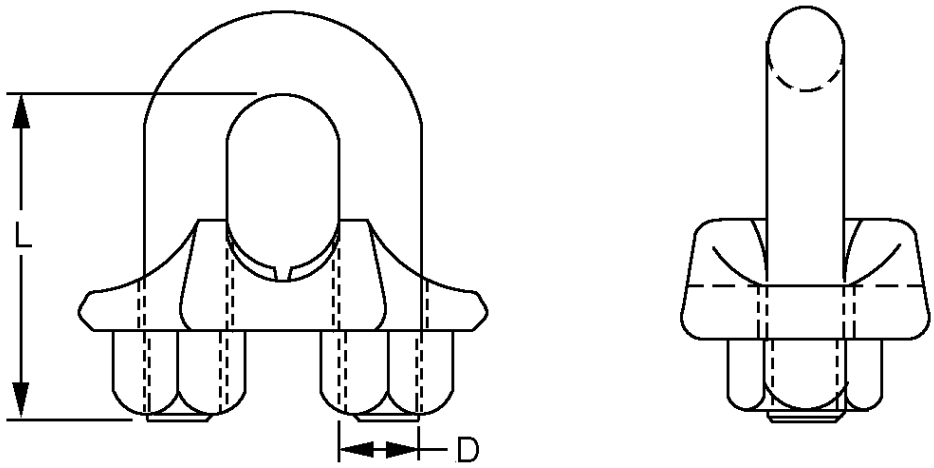
DETAIL SPECIFICATION SHEET

CLAMP, WIRE ROPE, SADDLED, SINGLE-GRIP, STEEL, TYPE I (MALLEABLE-IRON AND STEEL SADDLE)

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 FF-C-450.



Type I, Class 1

FIGURE 1. Clamp, single grip saddled wire rope, carbon steel saddle – type I, class 1.

AMSC N/A FSC 4030

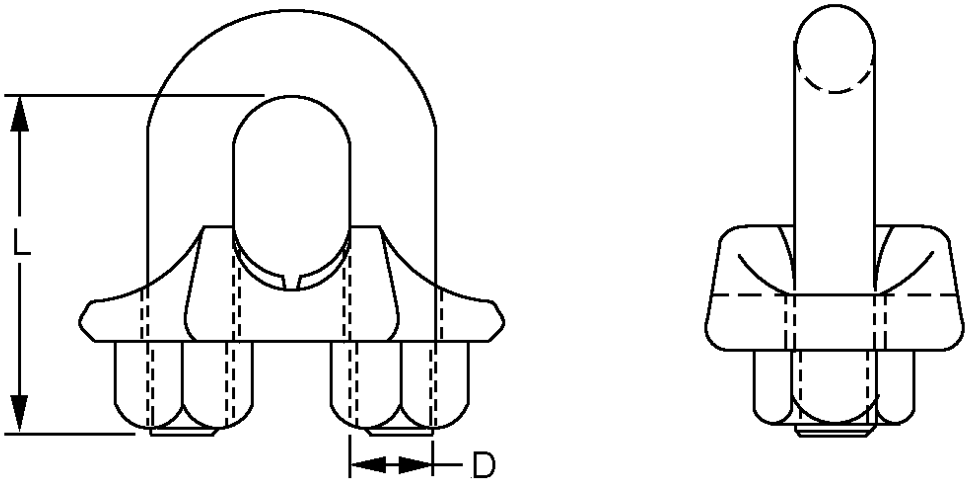
Clamp dimensions and number of carbon steel clamps used.

Dash Number	Wire rope diameter		D Thread minimum		U-Bolt length minimum L	Weight pounds minimum	Recommended number of clamps for each connection
1	1/8	(.125)	12-24	.2160 - 24UNC	.72	.05	2
2	3/16	(.188)	1/4-20	.2500 - 20UNC	.94	.09	2
3	1/4	(.250)	5/16-18	.3125 -18UNC	1.03	.18	2
4	5/16	(.313)	3/8-16	.3750 -16UNC	1.31	.25	2
5	3/8	(.375)	7/16-14	.4375 -14UNC	1.50	.42	2
6	7/16	(.438)	1/2-13	.5000 -13UNC	1.88	.70	2
7	1/2	(.500)	1/2-13	.5000 -13UNC	1.88	.73	3
23	9/16	(.563)	9/16-12	.5625 -12UNC	2.25	.80	3
8	5/8	(.625)	9/16-12	.5625 -12UNC	2.25	.90	3
9	3/4	(.750)	5/8-11	.6250 -11UNC	2.75	1.50	4
10	7/8	(.875)	3/4-10	.7500 -10UNC	3.12	2.00	4
11	1	(1.00)	3/4-10	.7500 -10UNC	3.50	2.50	5
12	1-1/8	(1.125)	3/4-10	.7500 -10UNC	3.88	3.10	6
13	1-1/4	(1.250)	7/8-9	.8750 - 9UNC	4.25	4.00	7
16	1-3/8	(1.375)	7/8-9	.8750 - 9UNC	4.44	5.20	7
14	1-1/2	(1.500)	7/8-9	.8750 - 9UNC	4.94	5.60	8
17	1-5/8	(1.625)	1-8	1.000 - 8UNC	5.31	7.30	8
15	1-3/4	(1.750)	1-1/8-7	1.125 - 7UNC	5.75	9.80	8
18	2	(2.000)	1-1/4-7	1.250 - 7UNC	6.44	13.40	8
19	2-1/4	(2.250)	1-1/4-7	1.250 - 7UNC	7.125	15.70	8
20	2-1/2	(2.500)	1-1/4-7	1.250 - 7UNC	7.688	17.90	9
21	2-3/4	(2.750)	1-1/4-7	1.250 - 7UNC	8.313	22.00	10
22	3	(3.000)	1-1/2-6	1.500 - 6UNC	9.188	32.00	10
23	3-1/2	(3.500)	1-1/2-6	1.500 - 6UNC	10.750	40.00	12

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.125	3.18	.563	14.30	1.030	26.16	1.750	44.45	3.120	79.25	5.75	146.05
.188	4.78	.625	15.88	1.125	28.58	1.880	47.75	3.500	88.90	6.44	163.58
.250	6.35	.720	18.29	1.250	31.75	2.000	50.80	3.88	98.55	7.125	180.98
.313	7.95	.750	19.05	1.310	33.27	2.250	57.15	4.25	107.95	7.688	195.28
.375	9.53	.875	22.23	1.375	34.93	2.380	60.45	4.62	117.35	8.313	211.15
.438	11.13	.940	23.88	1.500	38.10	2.750	69.85	4.94	125.48	9.188	233.38
.500	12.70	1.000	25.40	1.625	41.28	3.000	76.20	5.31	134.87		

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. All dimensions are “reference” dimensions.

FIGURE 1. Clamp, single grip saddled wire rope, carbon steel saddle – type I, class 1 – Continued.



Type I, Class 2

FIGURE 2. Clamp, single grip saddled wire rope, malleable iron saddle – type I, class 2.

Clamp dimensions and number of malleable iron clamps used.

Dash number	Wire rope diameter		D Thread minimum		U-Bolt length minimum L	Weight pounds minimum	Recommended number of clamps for each connection
201	3/16	(.188)	10-24	.1900 - 24UNC	0.875	.06	2
202	1/4	(.250)	5/16-18	.3125 -18UNC	1.188	.13	2
203	5/16	(.313)	5/16-18	.3125 -18UNC	1.188	.15	2
204	3/8	(.375)	3/8-16	.3750 -16UNC	1.563	.21	2
205	7/16	(.438)	3/8-16	.3750 -16UNC	1.625	.24	2
206	1/2	(.500)	7/16-14	.4375 -14UNC	2.000	.37	3
207	9/16	(.563)	1/2-13	.5000 -13UNC	2.125	.54	3
208	5/8	(.625)	1/2-13	.5000 -13UNC	2.313	.59	3
209	3/4	(.750)	9/16-12	.5625 -12UNC	2.563	.83	4
210	7/8	(.875)	5/8-11	.6250 -11UNC	3.063	1.25	4
211	1	(1.00)	5/8-11	.6250 -11UNC	3.375	1.50	5
212	1-1/8	(1.125)	3/4-10	.7500 -10UNC	3.875	2.42	6
213	1-1/4	(1.250)	3/4-10	.7500 -10UNC	3.875	2.60	6
214	1-1/2	(1.500)	7/8-9	.8750 - 9UNC	4.500	5.00	7

Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
.188	4.78	.500	12.70	1.000	25.40	1.563	39.70	2.563	65.10
.250	6.35	.563	14.30	1.125	28.58	1.625	41.28	3.063	77.80
.313	7.95	.625	15.88	1.188	30.18	2.000	50.80	3.375	85.73
.375	9.53	.750	19.05	1.250	31.75	2.125	53.98	3.875	98.55
.438	11.13	.875	22.23	1.500	38.10	2.313	58.75	4.500	114.30

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. All dimensions are “reference” dimensions.

FIGURE 2. Clamp, single grip saddled wire rope, malleable iron saddle – type I, class 2 – Continued.

REQUIREMENTS:

Clamps shall be in accordance with figures 1 and 2.

Material:

Type I, Class 1: Saddles, bolts, and nuts carbon steel shall be in accordance with FF-C-450, type I, class I.

Type I, Class 2: Bolts, and nuts carbon steel and saddles malleable– iron shall be in accordance with FF-C-450, type I, class 2.

Protective coating:

Finish Code	Finish
A	Protective coating shall be, mechanically deposited zinc coating in accordance with ASTM-B695, class 50, type II, or zinc coated (hot dip galvanized) in accordance with ASTM-A153/A153M or zinc coated (electrodeposited) in accordance with ASTM-B633, Fe/Zn 5, type VI.
C	Cadmium plated, in accordance with SAE-AMS-QQ-P-416, type II, class 3.
Z1	Zinc coating, hot-dip, in accordance with ASTM-A153/A153M
Z2	Zinc coating (electrodeposited) in accordance with ASTM-B633, Fe/Zn 5, type VI. (protects to 120hr in salt spray in accordance with ASTM-B117 and environmentally friendly)
Z3	Zinc coating, mechanically deposited, in accordance with ASTM-B695, class 50, type II (Chromate)
Z4	Zinc coating, mechanically deposited, in accordance with ASTM-B695, class 50, type I (Plain zinc; lowest cost protection, but may be environmentally friendly)

Environmental safety note:

If at all possible and for a safer environment, do not use cadmium or chromate conversion. Recommend to use “Z2”, ASTM-B633, Fe/Zn 5, type VI.

Threads shall be in accordance with FF-C-450.

Marking shall be in accordance with FF-C-450.

For design feature purposes, this specification takes precedence over acquisition documents referenced herein.

In the event of a conflict between the text of this specification sheet and the references cited herein, the text of this specification sheet shall take precedence.

Part or Identifying Number (PIN), example.

For interchangeable PIN's see table I.

TABLE I. Interchangeability PIN's.

Use	Cancelled	Use	Cancelled	Use	Cancelled
MS16842-1	MS16842-101	MS16842-6	MS16842-106	MS16842-11	MS16842-111
MS16842-2	MS16842-102	MS16842-7	MS16842-107	MS16842-12	MS16842-112
MS16842-3	MS16842-103	MS16842-8	MS16842-108	MS16842-13	MS16842-113
MS16842-4	MS16842-104	MS16842-9	MS16842-109	MS16842-14	MS16842-114
MS16842-5	MS16842-105	MS16842-10	MS16842-110	MS16842-15	MS16842-115

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. 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 and relationship to the last previous issue.

Referenced documents. In addition to FF-C-450, this document references the following:

ASTM-A153/A153M
ASTM-B117
ASTM-B633
ASTM-B695
SAE-AMS-QQ-P-416

CONCLUDING MATERIAL

Custodians:
Army – AR
Navy – SH
Air Force – 99
DLA-CC

Review activities:
Army – AT, AV, CR4, GL
Navy – MC, SA, YD
Air Force – 71

Preparing activity:
DLA – CC

(Project 4030-2010-006)

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.daps.dla.mil.