

WIRE ROPE CLIPS

DOUBLE GRIP DROP FORGED

MEETS DESIGN REQUIREMENTS ACCORDING TO FEDERAL SPECIFICATION FFC 450D, TYPE 3, CLASS 1



Fig. 391

The efficiency rating of a properly prepared termination for clip sizes 3/16 through 7/8 is 80%; sizes 1" through 1-1/2" is 90%. This rating is based on the catalog breaking strength of the wire rope. If pulley is used in turnback instead of thimble or if Seale construction or similar large outer wire type construction in 6 x 19 class is used in 1" and up, add 1 additional clip.

Clip Size Inches	Minimum No. of Clips	Amount of Rope to Turn Back in Inches	Torque in Ft. Lbs.
3/16-1/4	2	4	30
5/16	2	5	30
3/8	2	5-1/2	45
7/16	2	6-1/2	65
1/2	3	11	65
9/16	3	12-3/4	130
5/8	3	13-1/2	130
3/4	3	16	225
7/8	4	26	225
1	5	37	225
1-1/8	5	41	360
1-1/4	6	55	360
1-3/8	6	62	500
1-1/2	7	78	500

If a greater number of clips are used than shown in the table, the amount of rope turnback should be increased proportionately.

METHOD OF APPLICATION

1



Turn back the specified amount of rope from the thimble. Apply the first clip one base width from the dead end of the wire rope (U bolt over dead end - live end rests in clip saddle). Tighten nuts evenly to recommended torque.

2



Apply the next clip as near the loop as possible. Turn on nuts firm but do not tighten.

3



When these instructions require more than two clips - space additional clips equally between the first two - take up rope slack - tighten all nuts evenly on all clips to recommended torque.

4 Notice

Apply the initial load and retighten nuts to the recommended torque. Rope will stretch and shrink in diameter when loads are applied. Inspect periodically and retighten. The tightening torque values shown are based upon the threads being clean, dry, and free of lubrication.

DROP FORGED

MEETS DESIGN REQUIREMENTS ACCORDING TO FEDERAL SPECIFICATION FFC 450D, TYPE 1, CLASS 1

Fig. 392



The efficiency rating of a properly prepared termination for clip sizes 1/8 through 7/8 is 80%; sizes 1" through 3" is 90%. This is based on the catalog break strength of the wire rope. If pulley is used in turnback instead of thimble or if Seale construction or similar large outer wire type construction in 3 x 19 class is used in 1" and up, add additional clip.

Clip Size Inches	Minimum No. of Clips	Amount of Rope to Turn Back in Inches	Torque in Ft. Lbs.
1/8	2	3-1/4	4.5
3/16	2	3-3/4	7.5
1/4	2	4-3/4	15
5/16	2	5-1/4	30
3/8	2	6-1/2	45
7/16	2	7	65
1/2	3	11-1/2	65
9/16	3	12	95
5/8	3	12	95
3/4	4	18	130
7/8	4	19	225
1	5	26	225
1-1/8	6	34	225
1-1/4	7	44	360
1-3/8	7	44	360
1-1/2	8	54	360
1-5/8	8	58	430
1-3/4	8	61	590
2	8	71	750
2-1/8	9	78	750
2-1/2	9	84	750
2-3/4	10	100	750
3	10	106	1200

If a greater number of clips are used than shown in the table, the amount of rope turnback should be increased proportionately.

MALLEABLE

MEETS DESIGN REQUIREMENTS ACCORDING TO FEDERAL SPECIFICATION FFC 450D, TYPE 1, CLASS 2

Fig. 393



These clips are intended for use in making eye termination in right regular lay wire rope. Such an assembly is for non-critical light duty use where a small applied load is expected such as hand rails, fencing, guard lines, etc. For this reason an efficiency of the termination is not stated.

Clip Size Inches	Minimum No. of Clips	Amount of Rope to Turn Back in Inches	Torque in Ft. Lbs.
1/8	3	4-3/4	3.0
3/16	3	5-1/2	4.5
1/4	3	7	15
5/16	3	7-3/4	15
3/8	3	9-1/2	30
7/16	3	10-1/4	40
1/2	4	15-1/4	45
9/16	4	16	50
5/8	4	16	75
3/4	5	22-1/4	75
7/8	5	23-1/2	130
1	6	31	130
1-1/8	7	39-1/2	200
1-1/4	8	50	200
1-3/8	8	50	360
1-1/2	9	60-1/2	360

If a greater number of clips are used than shown in the table, the amount of rope turnback should be increased proportionately.

DO NOT EXCEED WORK LOAD LIMIT OR 20% OF THE PRODUCT'S BREAK STRENGTH.