



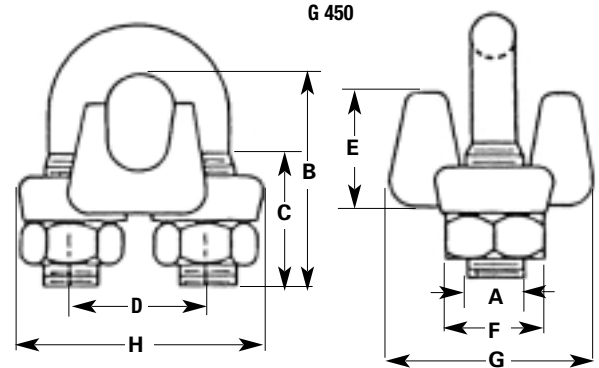
**WIRE ROPE FITTINGS**

# FORGED WIRE ROPE CLIPS

**WARNING:**

- Failure to read, understand, and follow these instructions may cause death or serious injury.
- Read and understand these instructions before using clips.
- Prepare wire rope end termination only as instructed.
- Do not use with plastic coated wire rope. Apply first load to test the assembly. This load should be equal or greater weight than loads expected in use. Next, check and retighten nuts to recommended torque.

- 1 • Refer to Table in following these instructions. Turn back specified amount of rope from thimble or loop. Apply first clip on base width from dead end of rope. Apply U-Bolt over dead end of wire rope - live end rests in saddle. Tighten nuts evenly, alternate from one nut to the other until reaching the recommended torque.
- 2 • When two clips are required, apply the second clip as near the loop or thimble as possible. Tighten nuts evenly, alternating until reaching the recommended torque. When more than two clips are required, apply the second clip as near the loop or thimble as possible, turn nuts on second clip firmly, but do not tighten. Proceed to step 3.
- 3 • When three or more clips are required, space additional clips equally between the first two - take up rope slack - tighten nuts on each U-Bolt evenly, alternating from one nut to the other until reaching recommended torque.
- 4 • **IMPORTANT:** Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next check and retighten nuts to recommended torque. In accordance with good rigging and maintenance practices, the wire rope end termination should be inspected periodically for wear, abuse, and general adequacy. The tightening torque values shown are based upon the threads being clean, dry, and free of lubrication.



The efficiency rating of a properly prepared termination for clip sizes 1/8" through 7/8" is 80% and for sizes 1" through 3" is 90%. This rating is based upon the catalog breaking strength of wire rope. If a pulley is used in place of a thimble for turning back the rope, add one additional clip.

The number of clips shown is based upon using right regular or Lang lay wire rope, 6 x 19 class or 6 x 37 class, fiber core or IWRC, IPS or XIPS. If Seale construction or similar large outer wire type construction in the 6 x 19 class is to be used for sizes 1 inch and larger, add one additional clip.

The number of clips shown also applies to right regular lay wire rope, 8 x 19 class, fiber core, IPS, sizes 1 1/2" and smaller; and right regular lay wire rope, 18 x 7 class, fiber core IPS or EIPS, sizes 1 3/4" and smaller.

For other classes of wire rope not mentioned above, it may be necessary to add additional clips to the number shown.

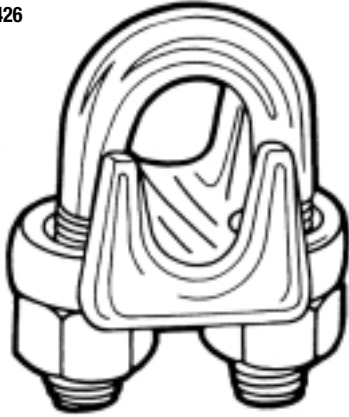
If a greater number of clips are used than shown in the table, the amount of rope turnback should be increased proportionately.

ROPE SIZE (in.)	DIMENSIONS IN INCHES								MIN NO. OF CLIPS	AMOUNT OF ROPE TO TURN BACK IN. in.	TORQUE IN lbs./ft.	WEIGHT lbs. EACH
	A	B	C	D	E	F	G	H				
1/8	.22	.72	.44	.47	.41	.38	.81	.94	2	3 1/4	4.5	.06
3/16	.25	.97	.56	.59	.50	.44	.94	1.16	2	3 3/4	7.5	.10
1/4	.31	1.03	.50	.75	.66	.56	1.19	1.44	2	4 3/4	15	.20
5/16	.38	1.38	.75	.88	.72	.69	1.31	1.69	2	5 1/4	30	.30
3/8	.44	1.50	.75	1.00	.91	.75	1.63	1.94	2	6 1/2	45	.47
7/16	.50	1.88	1.00	1.19	1.03	.88	1.81	2.28	2	7	65	.76
1/2	.50	1.88	1.00	1.19	1.13	.88	1.91	2.28	3	11 1/2	65	.80
9/16	.56	2.25	1.25	1.31	1.22	.94	2.06	2.50	3	12	95	1.04
5/8	.56	2.38	1.25	1.31	1.34	.94	2.06	2.50	3	12	95	1.06
3/4	.62	2.75	1.44	1.50	1.41	1.06	2.25	2.84	4	18	130	1.50
7/8	.75	3.12	1.62	1.75	1.59	1.25	2.44	3.16	4	19	225	2.12
1	.75	3.50	1.81	1.88	1.78	1.25	2.63	3.47	5	26	225	2.60
1 1/8	.75	3.88	2.00	2.00	1.91	1.25	2.81	3.59	6	34	225	2.90
1 1/4	.88	4.25	2.13	2.31	2.19	1.44	3.13	4.13	7	44	360	4.30
1 3/8	.88	4.63	2.31	2.38	2.31	1.44	3.13	4.19	7	44	360	4.60
1 1/2	.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44	8	54	360	5.40
1 5/8	1.00	5.31	2.62	2.75	2.66	1.63	3.63	4.75	8	58	430	7.00
1 3/4	1.13	5.75	2.75	3.06	2.94	1.81	3.81	5.28	8	61	590	9.25
2	1.25	6.44	3.00	3.38	3.28	2.00	4.44	5.88	8	71	750	13.00
2 1/4	1.25	7.13	3.19	3.88	3.19	2.00	4.50	6.38	8	73	750	16.00
2 1/2	1.25	7.69	3.44	4.13	3.69	2.00	4.05	6.63	9	84	750	19.00
2 3/4	1.25	8.31	3.56	4.38	4.88	2.00	5.00	6.88	10	100	750	23.00
3	1.50	9.19	3.88	4.75	4.69	2.38	5.88	7.63	10	106	1200	31.00
3 1/2	1.50	10.75	4.50	5.50	6.00	2.38	6.19	8.38	12	149	1200	40.00



## MALLEABLE WIRE ROPE CLIPS

G 426



CLIP & ROPE SIZE (INCHES)	MINIMUM NUMBER OF CLIPS REQUIRED
1/8	3
3/16	3
1/4	3
5/16	3
3/8	3
7/16	4
1/2	4
9/16	4
5/8	4
3/4	5
7/8	5
1	6
1 1/8	7

**\*WARNING:** Malleable rope clips are not designed for overhead lifting. Malleable rope clips are to be used for light duty, non-critical applications only. Typical uses include guard lines and fencing. Do not use malleable wire rope clips for critical or lifting applications.

## WIRE ROPE CLIPS

### FIST GRIP® CLIPS

- Bolts are an integral part of the saddle, with nuts on opposite sides of the clip, enabling the operator to swing his wrench in a full arc for fast installation.
- The "Fist Grip" clip is easily installed since its two parts are identical.
- Forged steel, galvanized.
- Standard heavy hex nuts.

#### IMPORTANT

Read Fist Grip Clip application booklet to insure clips perform to their maximum efficiency rating. Fist Grip Clip application booklets are available from HERCULES. Fist Grip wire clips meet or exceed requirements of Federal Specification FF-C-450 Type III, Class 1

® Registered trademark of "Crosby"

ROPE SIZE (in.)	DIMENSIONS IN INCHES										WEIGHT PER 100 (lbs.)
	A	B	C	D	E	G	L	M	N		
3/16 - 1/4	.25	1.25	.34	.94	.38	1.28	1.63	.69	1.47	18	
5/16	.31	1.34	.44	1.06	.38	1.47	1.94	.69	1.56	28	
3/8	.38	1.59	.50	1.06	.44	1.81	2.38	.75	1.88	40	
7/16 - 1/2	.50	1.88	.56	1.25	.50	2.19	2.75	.88	2.19	70	
9/16 - 5/8	.63	2.28	.69	1.50	.63	2.69	3.50	1.06	2.63	100	
3/4	.75	2.69	.88	1.81	.75	2.94	3.75	1.25	3.06	175	
7/8	.88	2.97	.97	2.13	.75	3.31	4.13	1.25	3.14	225	
1	1.00	3.06	1.19	2.25	.75	3.72	4.63	1.25	3.53	300	
1 1/8	1.13	3.44	1.28	2.38	.88	4.19	5.25	1.44	3.91	400	
1 1/4	1.25	3.56	1.34	2.50	.88	4.25	5.25	1.44	4.03	400	
1 3/8 - 1 1/2	1.50	4.13	1.56	3.00	1.00	5.56	7.00	1.63	4.66	700	

G 429

