



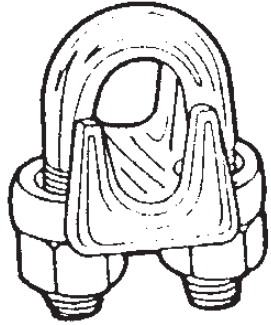
# Campbell®



## FORGED WIRE ROPE CLIPS

1000-G Forged      Stainless Steel  
3300 Malleable Iron

READ AND UNDERSTAND THESE WARNINGS AND INSTRUCTIONS BEFORE USING THESE WIRE ROPE CLIPS.



FORGED WIRE ROPE CLIP

### ⚠ WARNING

- Failure to follow the Instructions For Use below and these warnings may cause death or serious injury.
- Prepare wire rope end termination only as instructed.
- Do not use on plastic coated wire rope.
- Periodically inspect assembly for wear and abuse, and tighten nuts to recommended torque. If worn, distorted or damaged, discard and replace.
- Always stand clear of loads being lifted.

Campbell forged carbon steel wire rope clips meet the design requirements of Federal Specification FF-C-450, Type 1, Class 1. The base is drop-forged. All parts are galvanized to ASTM A-153 specification. The U-bolt is dyed blue for identification.

Campbell stainless wire rope clips are all drop-forged and made of Type 316 Stainless Steel, and have an electro-polished finish.

Wire rope clips are used for making eye termination assemblies.

### IMPORTANT: Instructions For Use



1. Turn back specified amount of rope per clip size (shown in the table below) from the thimble. Install clip on base width from dead end of rope (U-bolt over dead end). Tighten nuts evenly to recommended torque.



2. Assemble the next clip as close to the loop as possible. Turn nuts alternately and firmly until the ropes make contact.

3. If any additional clips are required, they should be equally spaced between the first two. Tighten all nuts evenly on all clips to recommended torque (see table).

### 4. IMPORTANT!

Apply the initial load to test the assembly. This load should be equal or greater weight than loads expected in use. Retighten nuts to recommended torque. Periodically, inspect assembly and tighten nuts to recommended torque.

The efficiency rating of a properly installed clip is based upon the catalog breaking strength of wire rope. The efficiency rating for clip sizes 1/8" through 7/8" is 80% and for sizes 1" through 2" is 90%. When a pulley is used in place of thimble for turning back the rope, one additional clip should be added.

The minimum number of clips shown in the table is based on using right or lang lay wire rope, 6x19 class, or 6x37 class, IWRC or fiber core, IPS or EIPS. If Seale construction or similar large outer wire type construction in the 6x19 class is being used for 1" and larger wire rope, one additional clip should be added.

The minimum number of clips shown in the table can be used with right regular lay wire rope, 8x19 class, fiber core IPS or IPS for 1-1/2" and smaller wire rope. The number of clips shown also applies to right regular lay wire rope 18x7 class, fiber core IPS or XIPS for 1-3/4" and smaller wire rope.

For classes of wire rope not mentioned, additional clips may be necessary to make a proper termination. Do not use on plastic coated wire rope.

Clip Size,		Minimum No. of Clips	L Amount of Rope to Turn Back		Torque Foot Weight	
in.	mm		in.	mm	lb	kg
1/8	3	2	3 1/2	89	5	2
3/16	5	2	4	102	8	4
1/4	6	2	5	127	15	7
5/16	8	2	5 1/2	140	30	14
3/8	10	2	6 1/2	165	45	20
7/16	11	2	7	178	65	30
1/2	13	3	11 1/2	292	65	30
9/16	14	3	12	305	95	43
5/8	16	3	12	305	95	43
3/4	19	4	18	457	130	59
7/8	22	4	19	483	225	102
1	25	5	26	660	225	102
1 1/8	29	6	34	864	225	102
1 1/4	32	7	44	1118	360	163
1 1/2	38	8	54	1372	360	163
1 3/4	44	8	61	1549	590	268
2	51	8	71	1803	750	341

NOTE: If more clips are used than specified in the table above, the amount of rope turnback should be increased accordingly. The data above based on use of Brewer-Titchener forged wire rope clips on new rope.