



WIRE ROPE CLIPS





CLIPS

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"Golden U-Bolt" Forged Wire Rope Clips

Fed. Specs. FF-C-450, Type 1, Class 1

Forged saddles, H.D. galvanized.

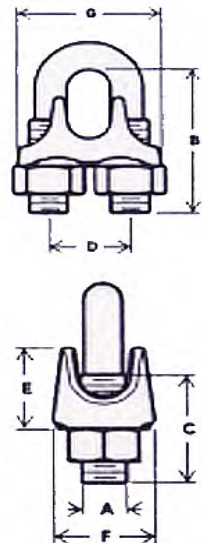
Gold chromated U-Bolts and Nuts identify 'Vanguard' product

Torque tested threads

Eye terminations reaching 80% of the rope strength when properly installed.



Forged Clips				Dimensions (Inches)							Weight lbs/pc	Product Code
	Rope Diameter	Min No. of Clips	Rope turn-back	Torque (ft-lbs)	A	B	C	D	E	F		
1/8"	2	3-1/4"	4.5	0.20	0.75	0.54	0.41	0.48	0.80	0.90	0.06	29070008
3/16"	2	3-3/4"	7.5	0.24	0.98	0.65	0.56	0.55	0.95	1.16	0.10	29070012
1/4"	2	4-3/4"	15.0	0.30	1.06	0.67	0.78	0.67	1.18	1.54	0.19	29070016
5/16"	2	5-1/2"	30.0	0.37	1.35	0.80	0.84	0.77	1.33	1.65	0.29	29070020
3/8"	2	6-1/2"	45.0	0.42	1.50	0.81	0.96	0.98	1.55	1.92	0.44	29070024
1/2"	3	11-1/2"	65.0	0.48	1.83	1.10	1.12	1.19	1.91	2.29	0.73	29070032
5/8"	3	12"	95.0	0.54	2.40	1.22	1.38	1.33	2.05	2.50	1.02	29070040
3/4"	4	18"	130.0	0.61	2.84	1.51	1.51	1.40	2.25	2.82	1.42	29070048
7/8"	4	19"	225.0	0.73	3.10	1.79	1.73	1.60	2.41	3.16	2.12	29070056
1"	5	26"	225.0	0.73	3.58	1.80	1.85	1.77	2.64	3.44	2.55	29070100
1-1/8"	6	34"	225.0	0.73	3.90	2.09	1.95	1.95	2.74	3.52	2.80	29070108
1-1/4"	7	37"	360.0	0.86	4.26	2.13	2.37	2.31	3.15	4.11	4.37	29070116
1-1/2"	7	48"	360.0	0.86	4.78	2.42	3.53	2.51	3.35	4.41	5.31	29070132
1-3/4"	7	53"	590.0	1.09	5.64	2.85	3.10	2.94	3.82	5.28	9.80	29070148
2"	8	71"	750.0	1.20	6.75	3.11	3.31	3.31	4.41	5.86	13.75	29070200



Installation			
<p>Step 1: APPLY 1st clip one base width from dead end of the rope-U-bolt over dead end - live end rests in clip saddle. Tighten nuts evenly to recommended torque.</p>	<p>Step 2: APPLY 2nd clip as close to loop as possible - U - bolt over dead end turn nuts firmly but do not tighten !</p>	<p>Step 3: ALL OTHER CLIPS - Space evenly between first two.</p>	<p>Step 4: APPLY TENSION and tighten all nuts to recommended torque. RE - CHECK nut torque after rope has been in operation.</p>

WARNING DO NOT: Stagger Clips
Mount U-Bolt over live end of rope
Join Ropes without the use of a thimble !

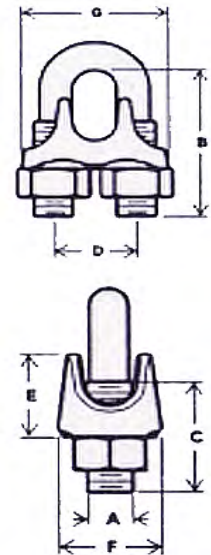


Malleable Wire Rope Clips

To be used for light duty, non critical applications only
 Typical uses include Guard Lines and Fencing
 Fed. Specs. FF-C-450D, Type 1, Class 2 (except 1/8" size)



Malleable Clips Rope Diameter	Dimensions (inches)							Weight lbs/pc	Product Code
	A	B	C	D	E	F	G		
1/16"	0.15	0.62	0.42	0.35	0.35	0.44	0.65	0.03	29010004
1/8"	0.18	0.72	0.56	0.43	0.43	0.55	0.85	0.04	29010008
3/16"	0.23	0.92	0.63	0.54	0.52	0.61	1.05	0.06	29010012
1/4"	0.30	0.13	0.83	0.67	0.60	0.76	1.23	0.11	29010016
5/16"	0.30	1.23	0.86	0.69	0.64	0.82	1.34	0.12	29010020
3/8"	0.36	1.50	1.06	0.88	0.90	0.92	1.58	0.22	29010024
7/16"	0.36	1.54	1.07	0.94	0.87	0.93	1.64	0.22	29010028
1/2"	0.42	1.96	1.28	1.04	0.94	1.07	1.91	0.34	29010032
5/8"	0.48	2.14	1.39	1.30	1.10	1.16	2.23	0.52	29010040
3/4"	0.54	2.54	1.46	1.33	1.35	1.30	2.40	0.75	29010048
7/8"	0.61	2.90	1.77	1.55	1.53	1.46	2.77	1.16	29010056
1"	0.61	3.23	2.15	1.81	1.73	1.74	3.02	1.48	29010100
1-1/8"	0.72	4.44	2.70	1.84	1.97	1.77	3.24	2.06	29010108



**FOR LIGHT DUTY INSTALLATIONS.
 DO NOT USE CLIPS OF THIS CLASSIFICATION FOR CRITICAL
 APPLICATIONS LIKE OVERHEAD LIFTING; IN SUCH CASES INSTALL
 VANGUARD "GOLDEN U BOLT" DROP FORGED CLIPS**

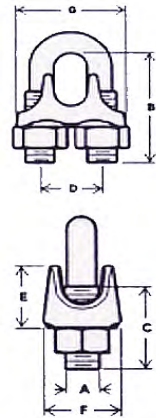


T 316 Stainless Steel Wire Rope Clips

To be used for light duty, non critical applications only
 Typical uses include Guard Lines and Fencing



Stainless Clips Rope Diameter	Dimensions (inches)							Weight lbs/pc	Product Code
	A	B	C	D	E	F	G		
1/8"	0.19	0.81	0.55	0.40	0.40	0.51	0.82	0.04	29150008
5/32"	0.17	0.93	0.63	0.52	0.46	0.55	0.92	0.05	29150010
3/16"	0.23	0.97	0.60	0.56	0.50	0.55	1.00	0.06	29150012
1/4"	0.30	1.24	0.85	0.71	0.59	0.71	1.24	0.13	29150016
5/16"	0.30	1.40	0.90	0.80	0.60	0.77	1.38	0.15	29150020
3/8"	0.37	1.81	1.15	0.90	0.88	0.82	1.58	0.28	29150024
1/2"	0.44	2.14	1.34	1.20	0.90	1.00	1.93	0.42	29150032



Other Sizes available on request

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WIRE ROPE CLIPS

INSTALLATION

There's only one right way to install cable clips when you want to get the maximum efficiency, up to 85 %, out of a loop or thimble-eye termination. Otherwise the capacity of the termination can be severely reduced, risking the lives of workers and others nearby.

Here is how to install cable clips correctly.

- * Most cable clips have two sections. There is the saddle part and a U-shaped part.
- * You need the right size clip for the wire rope diameter.
- * You need to know the number of clips required, the amount of rope turn back from the thimble, and the torque needed to tighten the nuts. There are tables that spell out this information. (See sample below)
- * At least three clips should be used when making any prepared loop or thimble-eye termination for wire rope, especially for hoisting.
- * All three clips must be installed with the saddle part on the live end of the rope. This lets the live end rest in the saddle so it is not crushed by the U part of the clip. Here is a way to remember this:

"Never saddle a dead horse."

- * The U goes on the dead end of the rope where crushing will not affect the breaking strength of the hoist line

Clip size Inches	Minimum No. of Clips	Amount of rope to turn back in inches	Torque 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

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

