



HEBEI SLN SLING GROUP CO.,LTD
ISO 9001/CE/GS/SGS/CCS/ABS/DNV



Forged Wire Rope Clips



G-450

Red-U-Bolt® Clip

Clips, all sizes 1/4" and larger, meet the performance requirements of Federal Specification FF-C-450 TYPE 1 CLASS 1, except for those provisions required of the contractor.



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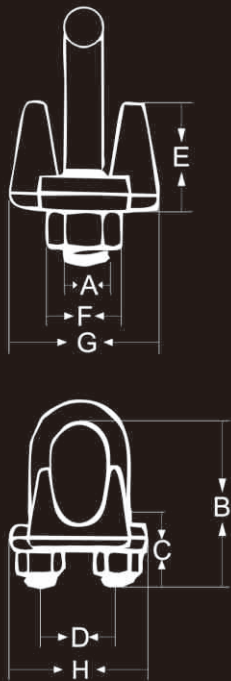
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Clips, all sizes 1/4" and larger, meet the performance requirements of Federal Specification FF-C-450 TYPE 1 CLASS 1, except for those provisions required of the contractor.

- Based on the catalog breaking strength of wire rope, Wire rope clips have an efficiency rating of 80% for 1/8"-7/8" sizes, and 90% for sizes 1" through 3-1/2".
- Entire Clip is Galvanized to resist corrosive and rusting action.
- Sizes 1/8" through 2-1/2" and 3" have forged bases.
- Clip sizes up through 1-1/2" have rolled threads.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these wire rope clips meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



Rope Size		Dimensions (in.)							
(in.)	(mm)	A	B	C	D	E	F	G	H
1/8	3-4*	.22	.72	.44	.47	.37	.38	.81	.99
3/16*	5*	.25	.97	.56	.59	.50	.44	.94	1.18
1/4	6-7	.31	1.03	.50	.75	.66	.56	1.19	1.43
5/16	8	.38	1.38	.75	.88	.73	.69	1.31	1.66
3/8	9-10	.44	1.50	.75	1.00	.91	.75	1.63	1.94
7/16	11	.50	1.88	1.00	1.19	1.13	.88	1.91	2.28
1/2	12-13	.50	1.88	1.00	1.19	1.13	.88	1.91	2.28
9/16	14-15	.56	2.25	1.25	1.31	1.34	.94	2.06	2.50
5/8	16	.56	2.25	1.25	1.31	1.34	.94	2.06	2.50
3/4	18-20	.62	2.75	1.44	1.50	1.39	1.06	2.25	2.84
7/8	22	.75	3.12	1.62	1.75	1.58	1.25	2.44	3.16
1	24-26	.75	3.50	1.81	1.88	1.77	1.25	2.63	3.47
1-1/8	28-30	.75	3.88	2.00	2.00	1.91	1.25	2.81	3.59
1-1/4	32-34	.88	4.44	2.22	2.34	2.17	1.44	3.13	4.13
1-3/8	36	.88	4.44	2.22	2.34	2.31	1.44	3.13	4.19
1-1/2	38	.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44
1-5/8	41-42	1.00	5.31	2.62	2.75	2.66	1.63	3.63	4.75
1-3/4	44-46	1.13	5.75	2.75	3.06	2.92	1.81	3.81	5.24
2	48-52	1.25	6.44	3.00	3.38	3.03	2.00	4.44	5.88
2-1/4	56-58	1.25	7.13	3.19	3.88	3.19	2.00	4.56	6.38
2-1/2	62-65	1.25	7.69	3.44	4.13	3.69	2.00	4.69	6.63
**2-3/4	**68-72	1.25	8.31	3.56	4.38	4.88	2.00	5.00	6.88
3	75-78	1.50	9.19	3.88	4.75	4.44	2.38	5.31	7.61
**3-1/2	**85-90	1.50	10.75	4.50	5.50	6.00	2.38	6.19	8.38

Clip Size (in.)	Rope Size (mm)	Minimum No. of Clips	Amount of Rope to Turn Back in mm	*Torque in Nm
1/8	3-4	2	85	6.1
3/16	5	2	95	10.2
1/4	6-7	2	120	20.3
5/16	8	2	133	40.7
3/8	9-10	2	165	61.0
7/16	11-12	2	178	68
1/2	13	3	292	88
9/16	14-15	3	305	129
5/8	16	3	305	129
3/4	18-20	4	460	176
7/8	22	4	480	305
1	24-25	5	660	305
1-1/8	28-30	6	860	305
1-1/4	33-34	7	1120	488
1-3/8	36	7	1120	488
1-1/2	38-40	8	1370	488
1-5/8	41-42	8	1470	583
1-3/4	44-46	8	1550	800
2	48-52	8	1800	1017
2-1/4	56-58	8	1850	1017
2-1/2	62-65	9	2130	1017
2-3/4	68-72	10	2540	1017
3	75-78	10	2690	1627
3-1/2	85-90	12	3780	1627

If a pulley/sheave is used for turning back the wire rope, add one additional clip.

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

*The tightening torque values shown are based upon the threads being clean, dry, and free of lubrication.

1. Refer to Table 1 in following these instructions. Turn back specified amount of rope from thimble or loop. Apply first clip one base width from dead end of rope. Apply U-Bolt over dead end of wire rope-live end rests in saddle (Never saddle a dead horse!). Use torque wrench to tighten 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. Use torque wrench to tighten 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 first two-take up rope slack-use torque wrench to tighten on each U-Bolt evenly, alternating from one nut to the other until reaching recommended torque.

4. If a pulley (sheave) is used in place of a thimble, add one additional clip.

5. WIRE ROPE SPLICING PROCEDURES:

The preferred method of splicing two wire ropes together is to use inter-locking turnback eyes with thimbles, using the recommended number of clips on each eye. An alternate method is to use twice the number of clips as used for a turnback amount shown in the application instructions. The minimum number of clips should be installed on each dead end. Spacing, installation torque, and other instructions still apply.

6. 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 use torque wrench to retighten 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.