

WIRE ROPE CLIP MANUAL

GENERAL

- Wire rope clips are used on wire rope eye-loop connections or complete-loop, end-to-end connections where socketing or splicing is not feasible when a non-permanent or temporary joint is required.
- The joint should not be situated in a place where there is permanent or long term vibration, contamination or corrosion if possible.
- Match the same sized clip to the same sized wire rope.
- 50~60% tension strength effect of Wire rope's breaking load.
- Wire rope clip's effect is due to fasten clip position, quantity and worker.
- Don't use with plastic coated wire rope. (should be remove coating before application of wire rope)
- Wire rope clips are produce by Forged steel and Hot dip galvanized.
- The wire rope clip should be inspected for deformation, wearing or defect within at least 6 months.
- The products which exceed the limit of 5% in deformation or wearing should be relieved of their load and replaced with new ones.

CAUTION

Before Use

- Be sure to use personal protection equipment. (Such as footwear, gloves, crash helmet, etc.)
- The work place must always be well lit.
- Before work, before remove dangerous articles from the area.
- The specification, use condition and use method of the product should be checked and the products should be used in a proper way.
- Check the products for any defect, wearing or deformation. Use only the product whose safety is assured.
- When the wire rope is secured by clip, the number of clips specified should be checked. The turnback length should also be checked for design so as to secure more than that number.
- Before the product is secured with a wire rope clip, it should be retightened with the specified torque.

Using

- Always follow the rules carefully. (Overloading & Improper use can result in injury.)
- Products over the 15kg weight must be used with an appliance tool. (Forklifts, cranes, hoists, etc.)
- Where applicable, it is important to locate outside the danger zones. (A falling load may cause serious injury or even death.)
- Never repair, alter, rework, or reshape a swivel by welding, heating, burning, bending or grinding.
- Subjecting the side of the product to shock or undue load can cause product deformation and destruction.
- Apply the first load to test the assembly. This load should be of equal or greater weight than the loads expected in use. Next, check and re-tighten nuts to the recommended torque.

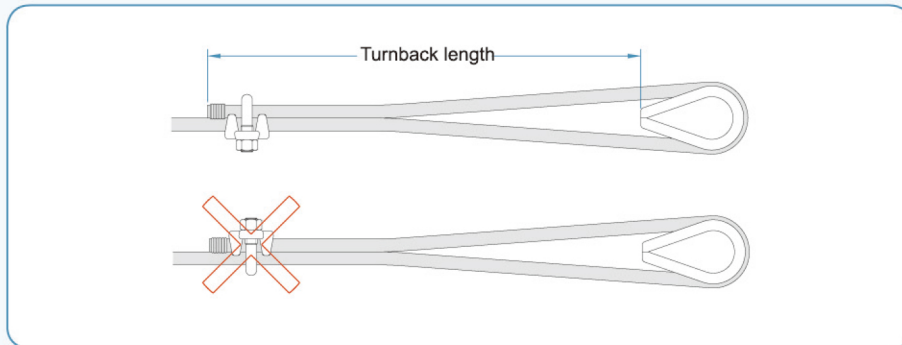
After Used

- After used products, should be inspection with elongation, wear and defect and, found anything else, must disuse, immediately.
- In case of found something wrong from products, should be need the check of load, working condition, and over-load, then.

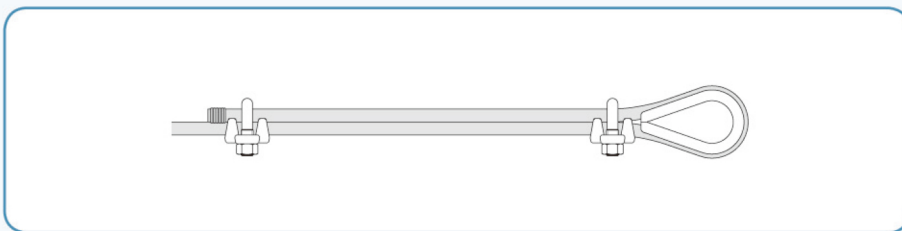
■ The amount and torque of the clip necessary for fastening the wire rope are as shown in the table below.

Clip Size (inch)	Wire Size (inch)	Min No. of Clips (pcs)	Amount of Rope to Turn Back in inches (Turnback length / mm)	Torque in Ft.	
				N·m	kg·m
1/2	1/2	3	290	58	5.9
5/8	5/8	3	305	80	8.2
3/4	3/4	4	460	116	11.8
7/8	7/8	4	485	203	20.7
1	1	5	660	203	20.7
1-1/8	1-1/8	6	865	203	20.7
1-1/4	1-1/4	7	1,120	330	33.5
1-3/8	1-3/8	7	1,120	330	33.5
1-1/2	1-1/2	8	1,370	330	33.5
1-3/4	1-3/4	8	1,550	725	73.8
2	2	8	1,800	1,017	103.8

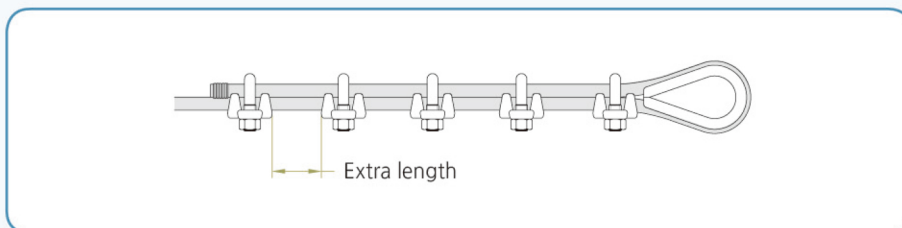
■ How to fasten wire rope clips?



step1. The first clip must be placed one saddle width from the turned back rope tail or dead end of the rope. U-bolt is fastened toward the dead-end direction of the rope. The first clip is fastened with the specified torque.



step2. The second wire rope clip must be placed immediately against the thimble but nevertheless in such a position that correct tightening of the grip does not damage the outer wires of the rope. The second clip is fastened with a force equal to or less than a specified torque to be fastened to each other.



step3. All other grips must be placed between the first and second clips in such a way that they are separated by at least one clear clip width from each other. Place a sufficient distance of 1.5 to 3 times the size of the clip between the clips, and fasten them at regular intervals. All clips are fastened to each other, but they are fastened with a force less than the specified torque. All clips are finished by alternately engaging with a specified torque.