



Correct Fitting of Wire Rope Clamps

SHACKLES, RIGGING EQUIPMENT
& FALL PROTECTION

- The wire rope clip should be fitted to the wire rope as shown schematically in the figures.
- The bridge of the clip should invariably be fitted on the working part of the rope, and the U-bolt on the rope tail or dead end of the rope.
- Wire rope grips should not alternate in position on the rope.
- Turn back enough wire rope length so that the required minimum number of clips be installed according the instructions below.
- The first clip must be placed one saddle width from the turned back rope tail or dead end of the rope. **See figure 1.**
- Tighten the nuts to the specified torque.
- The second wire rope clip must be placed immediately against the thimble but nevertheless in such position that the correct tightening of the grip does not damage the outer wires of the rope. **See figure 2.**
- Turn on the nuts firmly not yet to the specified torque.
- All other grips must be placed between the first and second clip in such way that they are separated by at least one clear width from each other. **See figure 3.**
- Apply light tension on the rope and tighten all nuts to the specified torque.
- The tightening torques quoted in the tables apply to the threads and bearing surfaces of the nuts having been greased.
- During assembly and before the rope is taken into service, the nuts must be tightened to the prescribed torque. After the load is applied for the first time, the tightening torque must be checked again and if necessary corrected. Check the tightening torque also at frequent intervals of time thereafter.
- The tightening torques and the minimum number of clips to be used are given in the tables below.

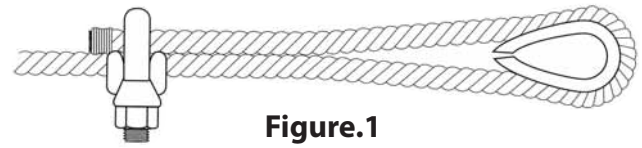


Figure.1



Figure.2

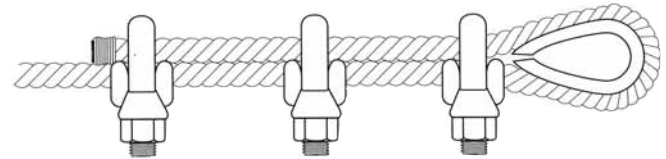


Figure.3

Dia Wire Rope	Minimum Number of Clips Required	Torque Valve
inches		Ft. Lbs
1/4	2	12
5/16	2	19
3/8	2	25
1/2	3	35
5/8	3	50
3/4	4	100
7/8	4	140
1 1/8	5	140
1 1/4	6	140
1 1/2	7	275
1 3/8	7	275
1 1/2	8	275

Dia Wire Rope	Minimum Number of Clips Required	Torque Valve
inches		Ft. Lbs
1 5/4	8	420
1 3/4	8	590
2 1/2	8	750
2 1/4	8	750
2 1/2	9	750
2 3/4	10	750
3 1/2	10	1200