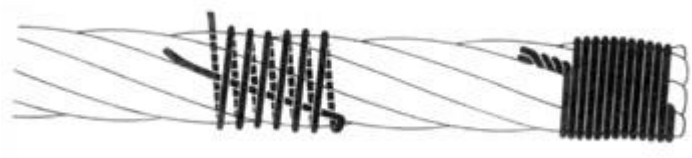
Seizing Steel Wire Ropes

Whatever cutting methods your applied, certain precaution - seizing both rope ends must be employed to protect the steel wire ropes from loosening. But carelessly or inadequately seized ends may cause distortion and flattening of the rope. If these loose ropes are applied to works, uneven distribution of loads to the strands may shorten the life of ropes badly. So it is important to seize the wire ropes in the optimal way.

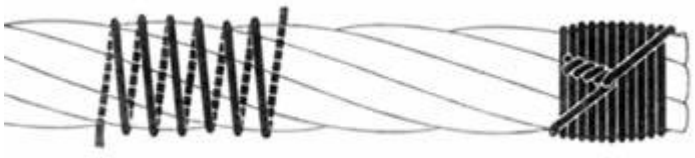
Normally, two methods are widely accepted by our customer. The method one is suitable for wire ropes with diameter over one inch, while the method two is for those with diameter one inch and under.



Seizing wire rope - method one

Method one:

1. One end of the seizing wire is placed between the valleys of two strands.
2. Turn another end around the rope and the fixed end of seizing wire closely and tightly at right angles.
3. Stop turning after the proper length of seizing has been applied.
4. Twist two ends of seizing wire together and make sure they are seizing the rope tightly.



Seizing wire rope - method two

Method two:

1. Wrap with small wires as shown in the picture.
2. Twist the two ends of seizing wire together.
3. Alternatively tight twist with nippers.

Rope diameter	Seizing wire diameter

Inches	mm	Inches	mm
1/8 to 5/16	3.2 to 8	0.032	0.813
3/8 to 9/16	9.5 to 14.5	0.048	1.21
5/8 to 15/16	16 to 24	0.063	1.6
1 to 1-5/16	26 to 33	0.08	2.03
1-3/8 to 1-11/16	35 to 43	0.104	2.64
1-3/4 to larger	45 and larger	0.124	3.15

Tips:

- The seizing wire & strands should be soft or annealed.
- The diameter and length of seizing wires may different as the diameter of the wire rope. Make sure that the seizing length is no less than the diameter of the steel wire rope.
- Generally, one seizing on each side of the cut is sufficient for preformed ropes. But for rotation resistant or non-preformed ropes, no less than two seizing parts are needed with the distance about six rope diameters.