SAMSON SPLICING INSTRUCTIONS



Double Braid Class I Eye Splice Modified for Used Rope

Class I ropes are made from any or all of the following fibers: olefin, polyester, or nylon.

This is an eye splice which can be performed on used rope. This is an all-purpose splice technique designed for people who generally splice used rope as frequently as new rope.

You may wish to read the supplemental information, "Special Tips for Splicing Used Rope" at the end of these instructions, before beginning.

Splicing used rope can be made easier by first understanding the rope condition. Natural shrinkage has occurred caused by water and heat. In addition, the cover yarns have often been abraded. Soak the section of rope to be spliced in water for several minutes — this lubricates and loosens fibers.



MEASURING AND MARKING

Tape end to be spliced with 1 thin layer of tape. Then, measure 1 tubular fid length from end of rope and mark. This is Point R (Reference). From Point R form a loop the size of the eye desired and mark. This is Point X, where you extract core from inside the cover. If using a thimble, form the loop around the thimble.

Tie a tight slipknot approximately 5 fid lengths from Point X. This must be done!



EXTRACTING THE CORE

Tie a slipknot about 5 fid length from Mark X.

Bend rope sharply at Point X. With the pusher or any sharp tool such as an ice pick, awl, or marlin spike, spread the cover strands to expose core. First pry, then, pull the core completely out of cover from Point X to the taped end of the rope. Put one layer only on end of core.



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cover

REINSERTING CORE INTO COVER

You are now ready to put core back into cover from Mark T to Point X. Insert fid at Mark T, jam the taped core end tightly into end of fid. With pusher, push fid and core around to, and through opening at Point X (exactly where core was first extracted.) When using wire fid, attach fid to taped core. After fid is on, milk braid over fid while pulling through from Mark T to Point X.

Depending on eye size, fid may not be long enough to reach from Mark T to Point X in one pass. If not, bring fid out through cover, pull core through and reinsert fid into exact hole it came out of. Do this as many times as needed to reach Point X.





PREPARING TO BURY CORE

Next, pull on core tail coming out at Point X, then on tapered cover coming out at Mark 3, the crossover should be tightened until opening in crossover is approximately equal to diameter of rope. Hold the loop at the crossover with one hand. With other hand firmly smooth towards Point X in one direction, and towards Mark 3 in other direction. Remove all cover slack. Tapered cover will disappear at Mark 3. Then cut core tail off close where it comes out at Point X.



BURYING THE EXPOSED CORE

Hold rope at slipknot and with other hand milk cover toward splice, gently at first, then more firmly. Cover will slide over Mark 3, Mark 2, the crossover, and Point R.

Then smooth loop from Mark T to Point X removing all slack. Continue milking until all cover slack between knot and throat of eye has been removed.





FINISHING THE SPLICE

Now untie the slipknot. If eye is not the right size, carefully check Steps 1 through 9. If a hollow spot appears at the throat this means that the core tail was cut too short. Do not worry as this does not affect the splice performance nor its strength. Reason: the total load of an eye splice is split between the two legs. Therefore, each side of the splice only has to support 50% of the total load. The braided cover alone can handle this load factor.

starting at base of throat of eye, especially if rope is 1' diameter and larger.



crossover

Special Tips: Splicing Used Double Braid

Splicing used rope can be made easier by first establishing the rope's condition. Natural shrinkage may have occurred, caused by water and heat. Sometimes the cover yarns have been braided. By using the technique outlined in the Used Rope Eye Splice for Class I Double Braids, along with the following tips, you can splice used braided rope more easily and with better results.

TIP 1

Before you begin, soak the section of rope to be spliced in water for several minutes — this lubricates and loosens fibers.

TIP 2

After marking cover (as shown in Step 2 of the splicing instruction) untape end of rope, grasp end of core, and slide back cover to pull out core. This loosens and bunches up cover strands in the area of Point X making it easier to open up cover strands for extraction. Carefully loosen 3–4 strand pairs at Point X to assure a large and flexible hole for extraction (Fig. A).

TIP 3

The use of a shock cord in a rolling hitch around the cover is useful to make final burying easier and more complete. Pull on the hitch toward the eye until all cover slack is removed (Fig. B).

Whipping Method I and Seizing Method II

Choosing twines for whipping:

In general, braided nylon twine is preferred for whipping. Polyester twines, or twisted twines in either polyester or nylon, can also be used.

For double braids the twine used should be approximately twice the diameter of the strands in the cover.

Whip or seize the end of the spliced area with whipping twine for extra security and a professional touch. Keeping tension on rope while wrapping results in tighter whipping.

STEP 1 Form loop along the rope with whipping twine and wrap end around the back.



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Figure A