



16 – Strand Splicing Instructions

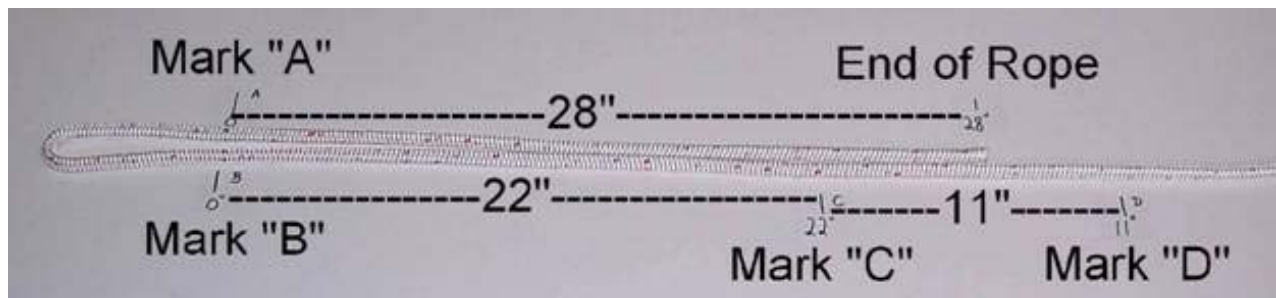
Assisted by *Brion Toss Rigging*

Tools Required

- A. Splicing Wand/Small Wire
- B. Fid
- C. Marker
- D. Scissors
- E. Bench vise (not required but makes splicing easier)
- F. Measuring Tape
- G. Strong tape

Step 1...Measurements *Illustration a.*

- A. Measure 28" from end of rope and make **Mark "A"**.
- B. Create size of eye and make **Mark "B"** opposite **Mark A**.
- C. Measure 22" down from **Mark B** and make **Mark "C"**.
- D. Measure 11" down from **Mark C** and make **Mark "D"**.
- E. Tie a knot in body of the rope about 36" down from **Mark D**.



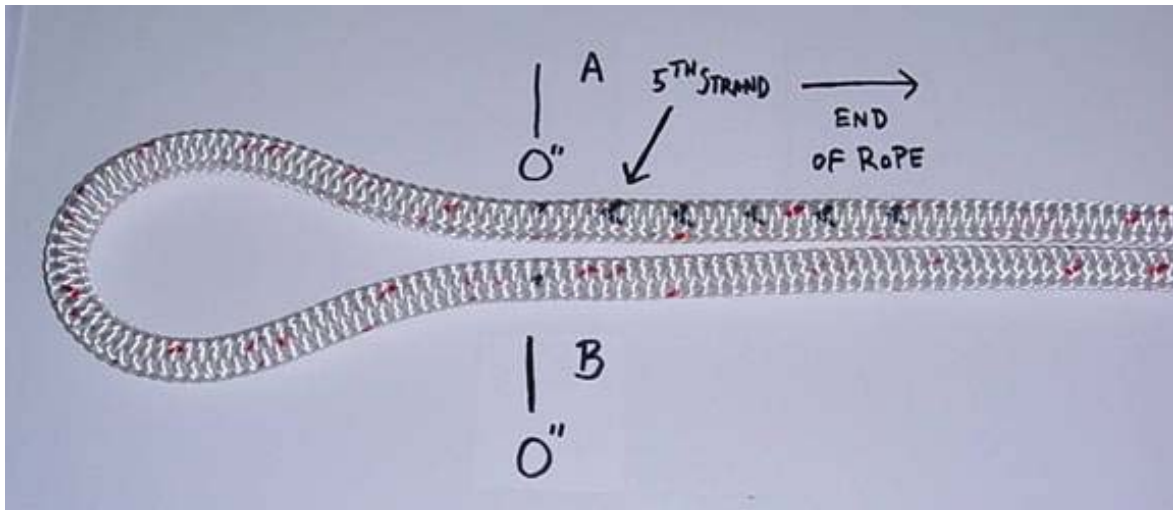
Step 2...Core Removal *Illustration b.*

Carefully open up the braid at **Mark C** and pull out the core yarns from the end of the rope back to **Mark C**.



Step 3...Marking Cover Taper *Illustration c.*

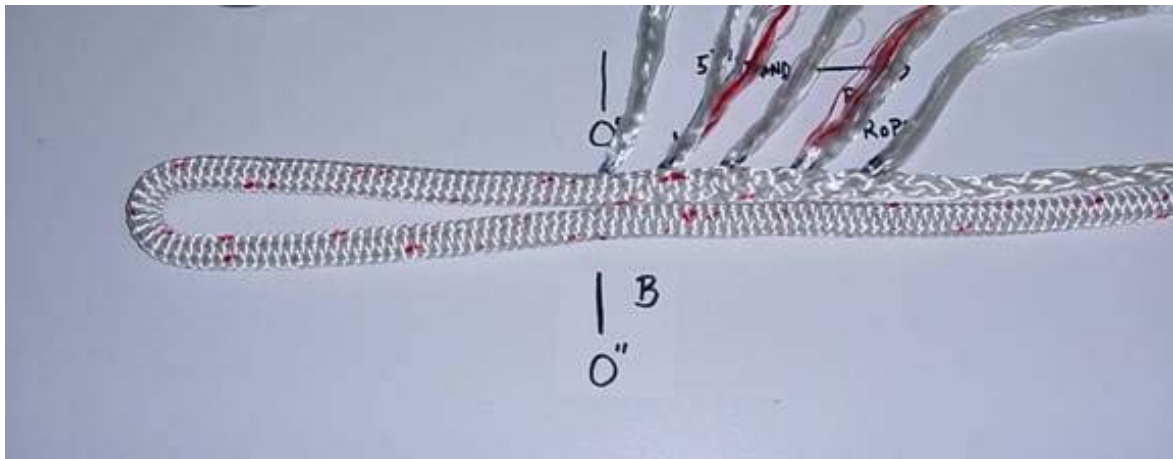
From **Mark A** count 5 strands toward end of rope and mark the 5th strand (left and right strands). Continue counting down 5 strands and marking the 5th strand until there are a total of 5 marked strands.



Step 4...Tapering End of Rope *Illustration d.*

Pull out marked strands from the braid. **Do not cut**. It can be very difficult to pull the first couple of yarns out of the cover. This is because you are

working with a very long tail. For ease pull out the first couple of strands in stages.

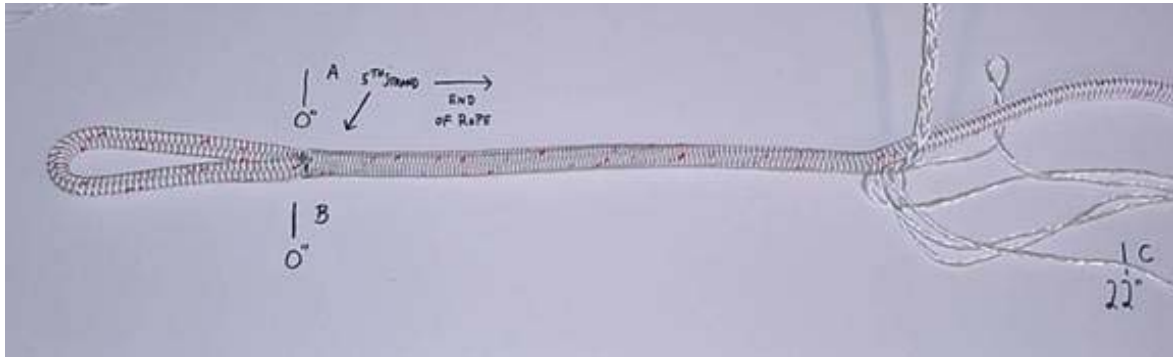


Step 5...Performing Splice *Illustration e.*

Insert the Splicing wand/small wire at **Mark C** and exit at **Mark B**. To ease getting the Splicing wand/small wire all the way through **Point B**, insert Fid at **Point B** pointing toward **Point C**. Feed Splicing wand/small wire up to Fid entry and pull Splicing wand/small wire and Fid out. Attach the end of the cover tail and pull it completely through. Cut the laid-out yarns just after they enter the splice and no sooner. *(As each marked strand is about to be buried in the rope, carefully cut each strand.)* Pull tail through until **Mark A** and **Mark B** coincide. Here are some tips:

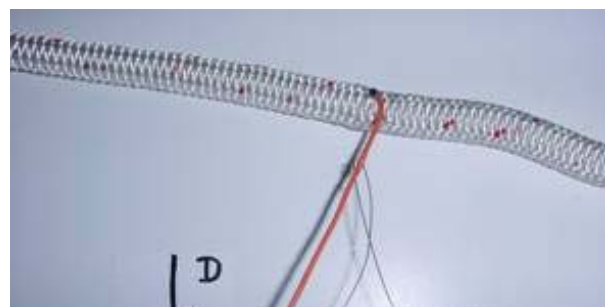
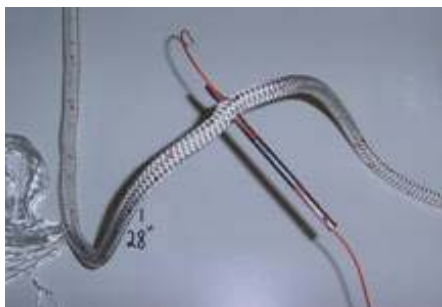
- Keep a little tension on the eye. The tail will go in easily at first then become more difficult. Try loosening the cover where the tail is entering by bending it sharply in all directions.
- Use a wooden or plastic mallet on a non-metal surface to “tenderize” the rope at the entry.
- Try clamping the rope to a vice. Milk the cover towards the eye. Start at

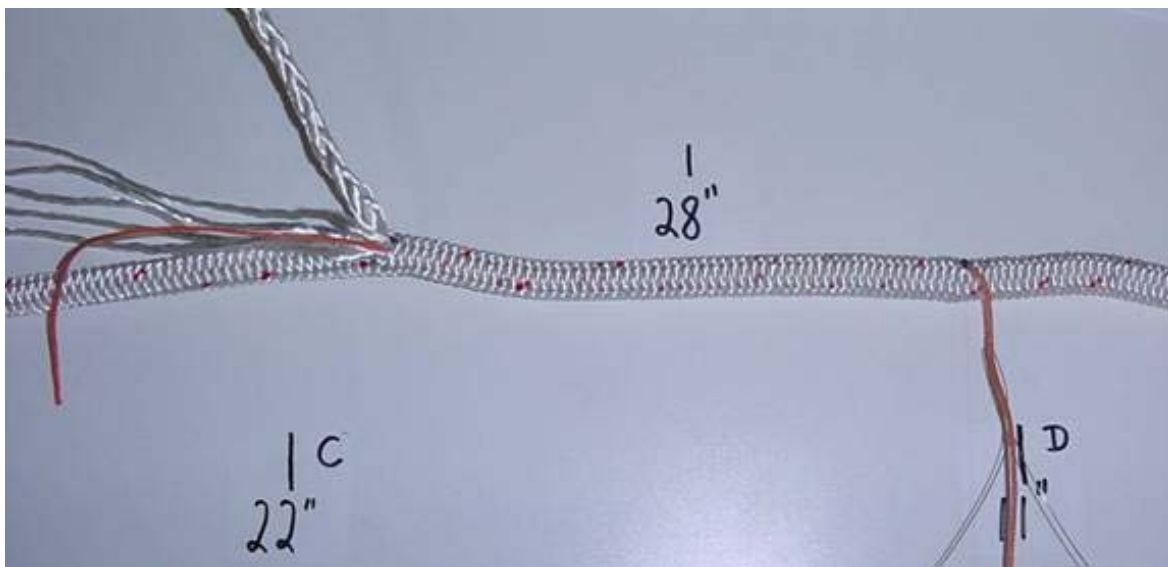
the knot and firmly smooth the cover towards the eye.



Step 6...Burying the Cover Strands *Illustrations f.g.h.*

The next step entails tucking the cover strands through the rope to finish the bury. This job will be easier using a retrieval line (ideally some “Fling-it” 100% Spectra Line) and some wire. Insert the retrieval line through the width of the rope at **Mark D** with the help of a Fid. Take the wire and feed it through the retrieval line at its mid-point. Pull the wire through the retrieval line so half the wire is on each side of the retrieval line. Now pull the core strands at **Mark C**...this will pull the retrieving line up and the wire up out of the rope at **Mark C**. Wire will form a loop as it exits the rope at **Mark C**.





Attach two of the cover strands to the wire loop (using tape) and pull the retrieval line toward **Mark D**. This will bring the two cover strands with it and out **Mark D**. Proceed with the next two strands until all the strands are pulled firm. The ends will be hanging out at **Mark D**.

Step 7...Marking & Cutting Cover & Core Strands

Smooth rope from the **eye** back to **Mark D** to remove slack in the braid.

Smooth rope from **knot** to **Mark C** to bury as much of the core strands.

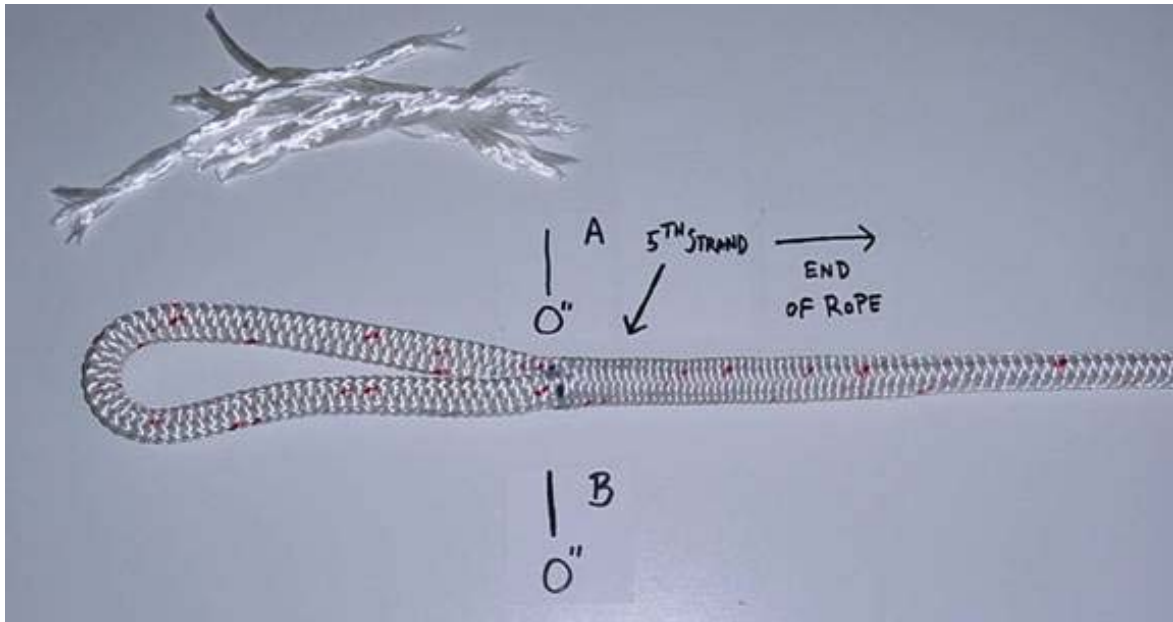
Mark cover ends or tail and the core yarns where they exit from the body of the rope.

Pull buried tail and cover yarns out of the rope at their exit spot until about 13-inches are exposed. 13 -inches is the distance the tail and the core strands overlap in the splice. The tail and the cover yarns then should be tapered at 6 -inches, taper for a smooth transition in the core.

Cut both the cover tail and the core strands where they are marked.

Bury the exposed ends by milking or smoothing the rope from the eye

out to the end and from the knot out to the end. *Illustration i.*



Step 8...Finishing the Splice *Illustration j.*

Smooth out the rope by pulling toward both ends. This will make sure all slack is removed from the splice area and ensure that the buried cover and core areas are seated properly inside the rope.

Apply two stitches 1" apart directly through the start of the splice and whip stitching to the rope approximately 16 strands from the splice.

