

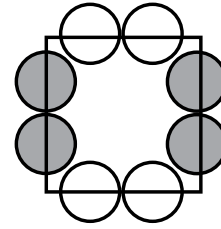


8x3-Strand Class II End-for-End Splice

Class II ropes are made in whole or part from any of the following high modulus fibers: HMPE, LCP (Liquid Crystal Polymer), Aramid, and PBO.

GETTING STARTED

8-strand ropes, also known as plaited ropes, are composed of 8 strands grouped into 4 pairs. 2 of these pairs turn to the left (shown in gray), and 2 pairs turn to the right (shown in white.) Seen in this cross-section, the 4 strand pairs form the sides of a square. The strands that are on opposite sides of the square will rotate in the same direction.

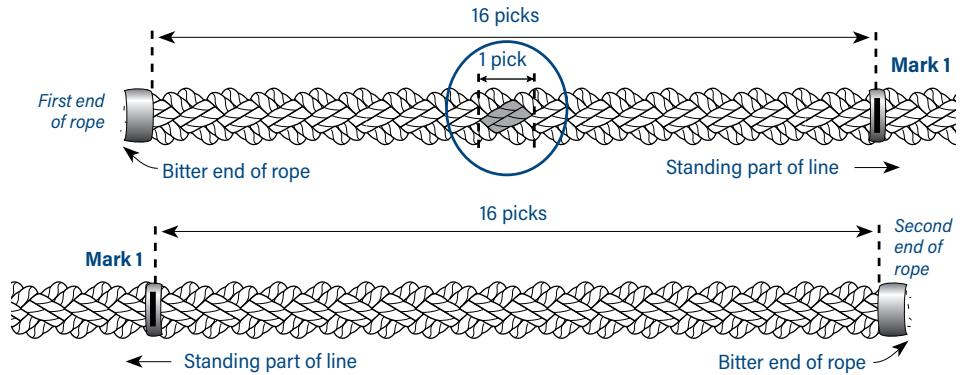


TOOLS REQUIRED

A splicing fid or marlinspike, sharp knife or scissors, plastic or masking tape, marking pen.

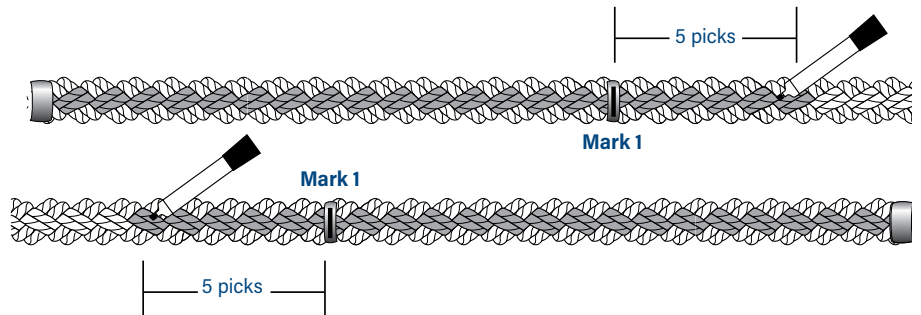
STEP 1 COUNTING AND MARKING

From the end of the rope, count a distance of 16 picks and apply tape securely around the rope immediately after the 16th pick, as shown in the illustration. This is Mark 1. Apply the tape securely enough so that it will not move during the splicing procedure.



STEP 2 MARKING THE ROPE

Holding the end of the rope, note the pairs of strands going to the left. Mark these pairs. Mark the strands up to Mark 1 and continue to mark the strands for 5 or more picks beyond the Mark 1.



STEP 3 SEPARATING & TAPING

Remove tape from end then tape the end of each strand. Start unlaying strands in their respective pairs. It is important to keep them together. After they are separated into pairs up to Mark 1, untwist the pairs. Tape the ends of pairs together with a taper as shown as shown in Fig. A.

3A Lay out rope as shown in as shown in Fig. A, working from the right hand rope. Unmarked strand pairs are shown in white. Marked strand pairs are shown in gray. The left hand rope mirrors this arrangement.

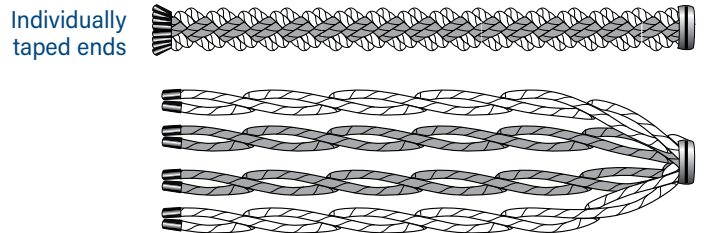
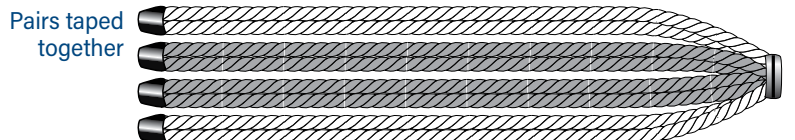


Figure A





8x3-Strand Class II End-for-End Splice

STEP 4 JOINING THE PAIRS

To start, lay out the marked and unmarked strands as they appear in Fig. B.

4A It is important that the next steps of the procedure be followed carefully as shown in Fig. C.

Marked A1 strands go through marked B1 strands.

Marked B2 strands go through marked A2 strands.

Unmarked A3 strands go through unmarked B3 strands.

Unmarked B4 strands go through unmarked A4 strands. Keep strands untwisted.

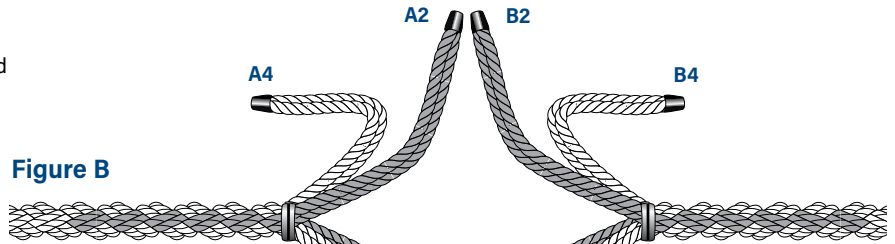


Figure B

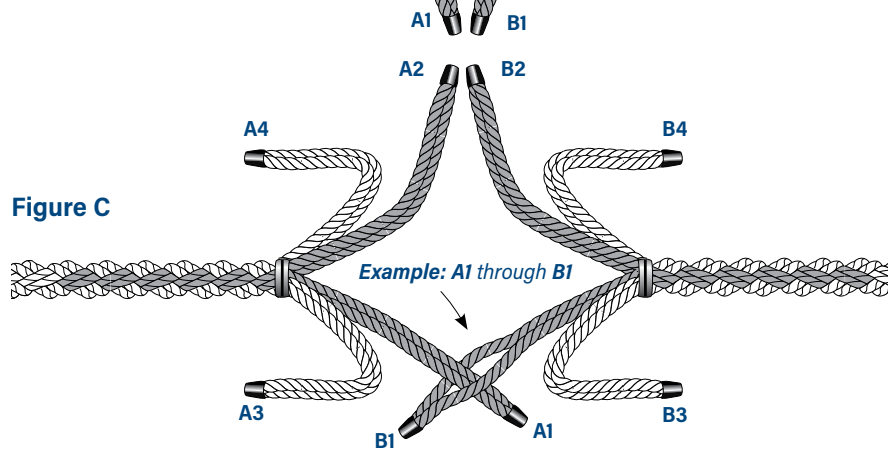


Figure C

STEP 5 MARRYING THE ROPES

After the initial step has been completed on all strands, you should have something that looks like Fig. D. Marry the ropes as shown in Step 6. This part is preferably a 2-person job.

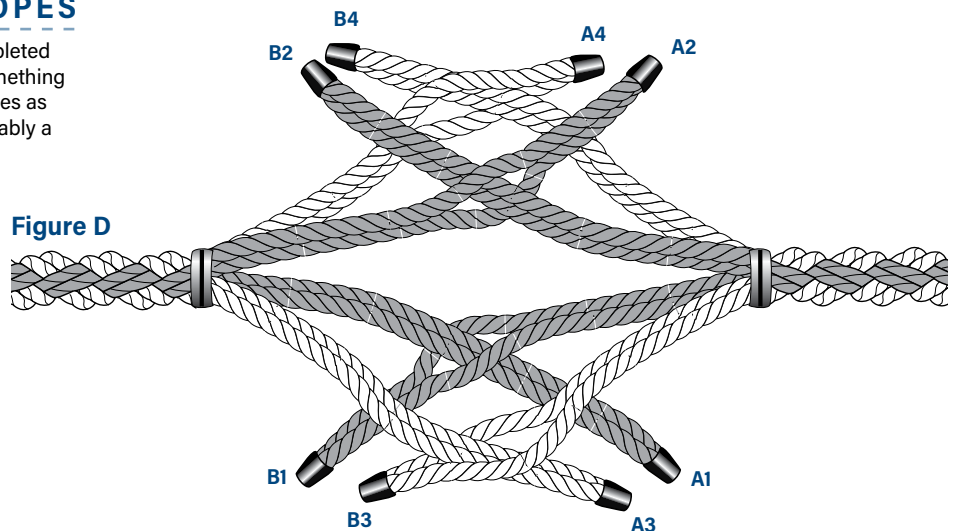


Figure D



8x3-Strand Class II End-for-End Splice

STEP 6 FINISHING MARRIAGE

Keep the ropes together snugly. Tie a piece of string tightly around the splicing point as shown in Fig. E. Remove both pieces of tape from the rope.

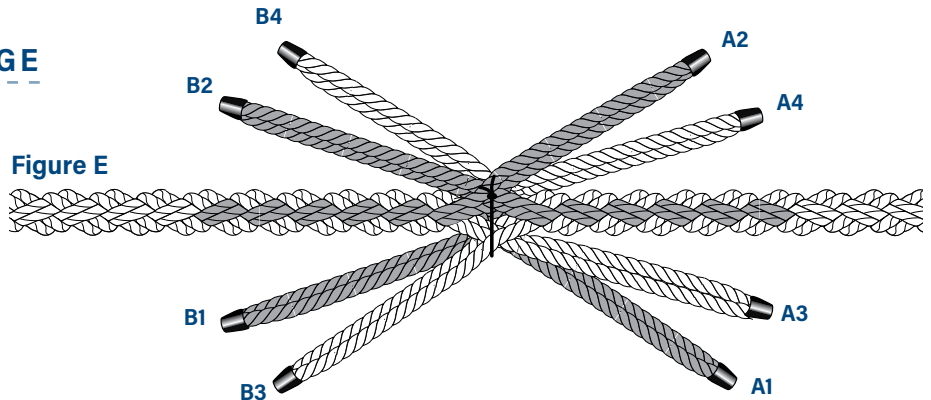


Figure E

STEP 7 STARTING THE TUCKS

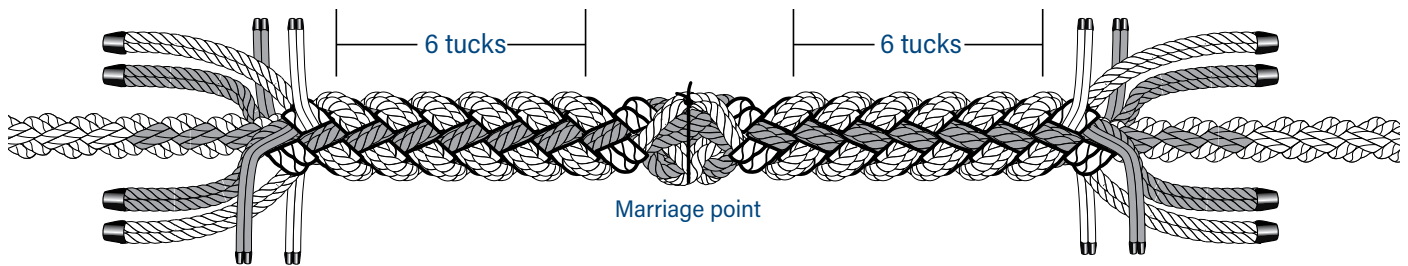
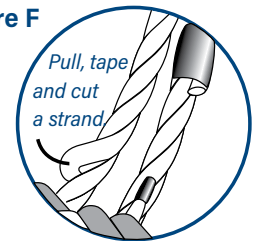
7A Beginning at the marriage, tuck a marked pair of strands under the nearest unmarked pair. Then tuck an unmarked pair under the nearest marked pair of strands.

Complete 1 full set of tucks in one direction with all the strands and then do another full set of tucks on the other side of the marriage. Pull everything tight before proceeding.

Continue tucking the strands around the rope until you have completed 6 full tucks on each side of the marriage with all the strand pairs.

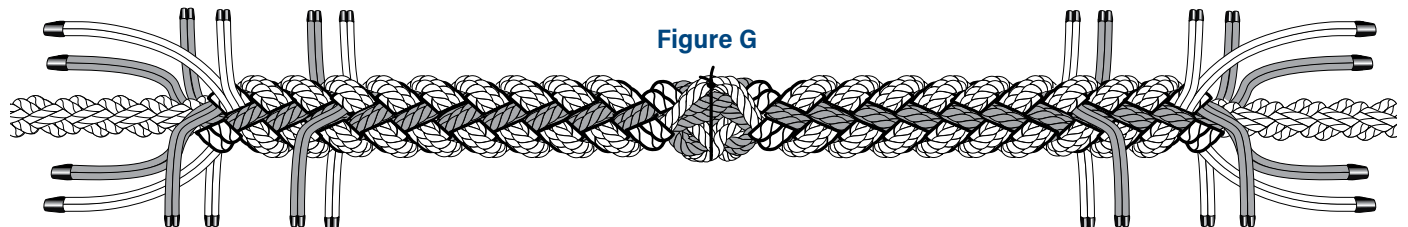
Having completed 6 full tucks for each pair of strands you will need to reduce the strand volume by 1/3 before continuing to the next set of tucks. To do this, cut 1 of the 3 strands out of each pair as shown in Fig. F.

Figure F



7B Continue tucking the remaining strands, with the (gray) strands under the (white) strands, and vice versa, for 3 more full tucks. Reduce the volume of each of the strands in the 4 pairs of strands, by 1/2 (Do this by removing 1 of the 2 strands in each of the remaining pairs.) The splice should look like Fig. G.

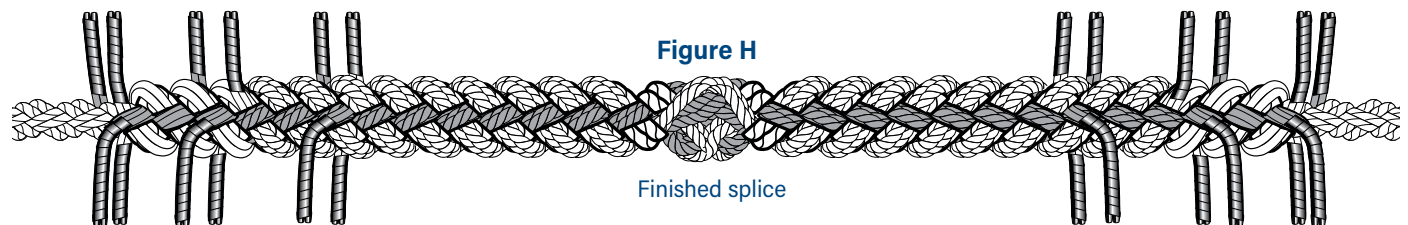
Figure G



STEP 8 CONTINUING TUCKS

Continue tucking the remaining strands for 3 more full tucks. Tape 8–10 inches from where the strands protrude from the rope body and cut off the remainder. The finished splice should look like Fig. H.

Figure H



Finished splice