

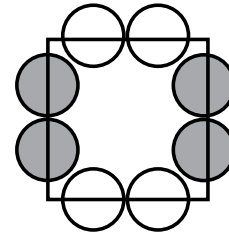


8-Strand Class II End-For-End Splice

Class II ropes are made in whole or part from any of the following high modulus fibers: Dyneema®, Vectran®, Technora®, and Zylon®.

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.

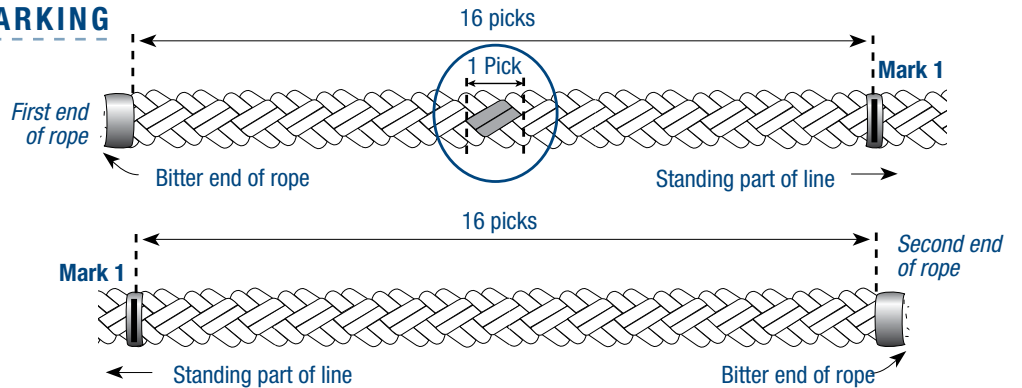


TOOLS REQUIRED

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

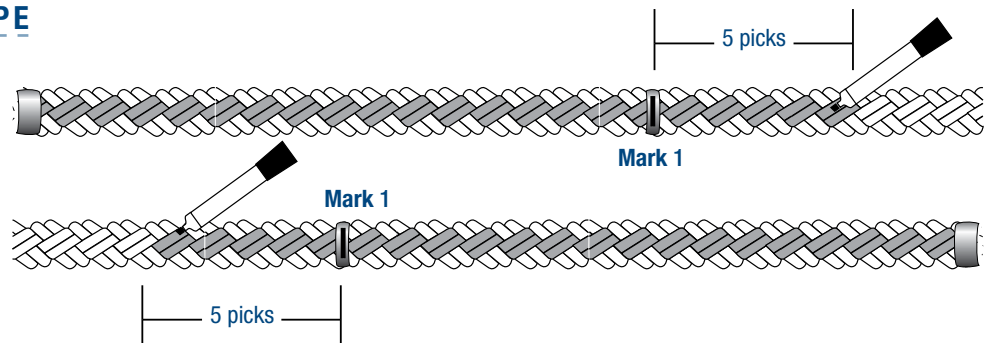
STEP 1 COUNTING AND MARKING

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.



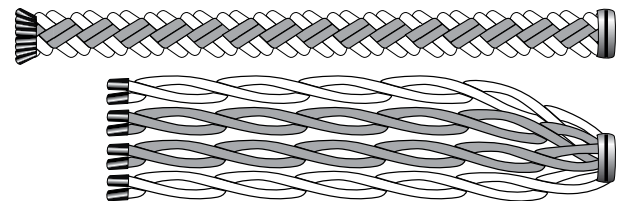
STEP 2 MARKING THE ROPE

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 Mark 1.



STEP 3 SEPARATING & TAPING

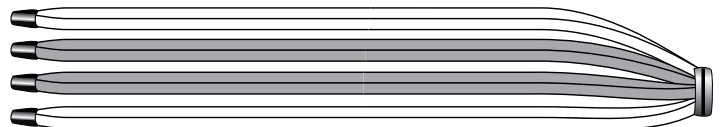
Remove tape from end then tape the end of each strand. Start unlacing strands in their respective pairs. It is important to keep them together. After they are separated into pairs up to Mark 1, untwist the pairs. Tape the ends of pairs together with a taper as shown.



3A Lay out rope 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.

Pairs taped together

Figure A

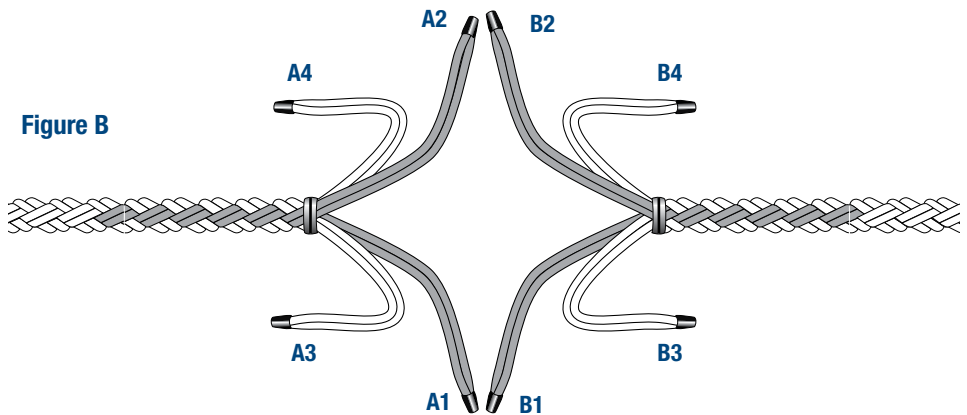




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STEP 4 JOINING THE PAIRS

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



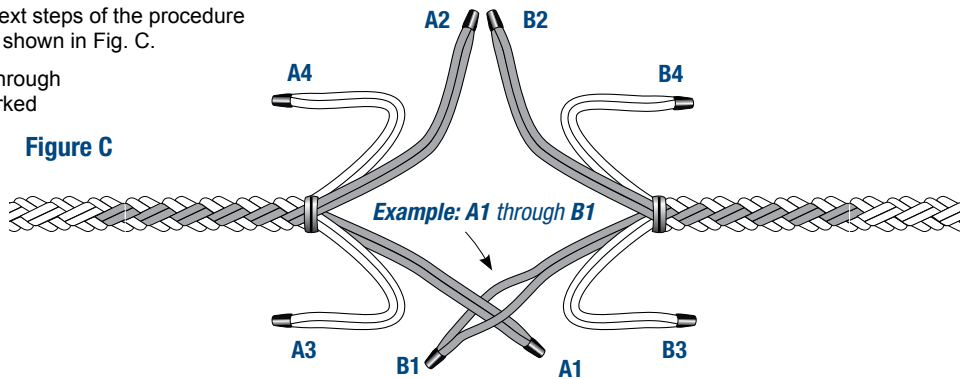
4A

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.

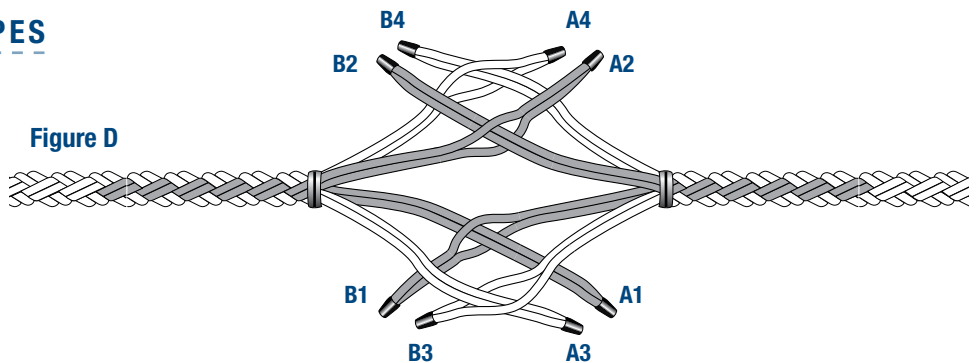
Unmarked A3 strands go through unmarked B3 strands.

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



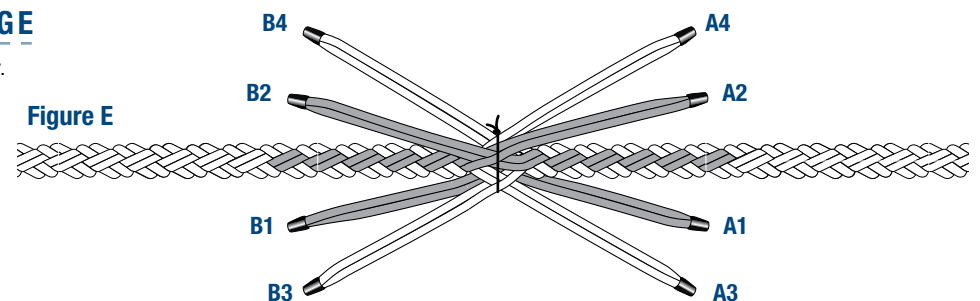
STEP 5 MARRYING THE ROPES

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.



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.





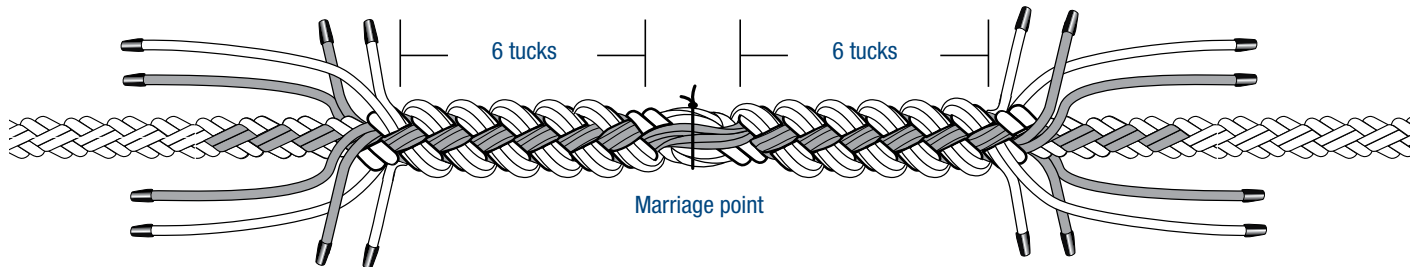
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STEP 7 STARTING THE TUCKS

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.

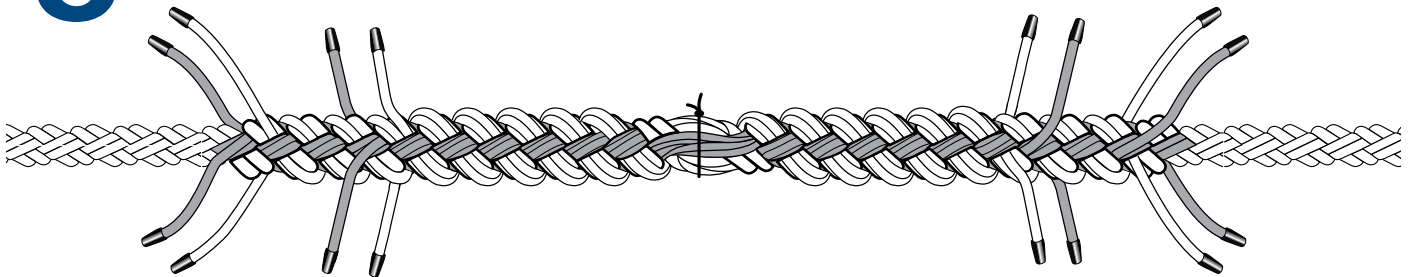
Complete 1 full set of tucks tuck in one direction with all the strands and then do another full set of tucks on the other side of the marriage. Pull everything tight before proceeding.

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. Next, select the strand closest to the marriage point in each pair. Tape this strand and cut the excess off as shown.



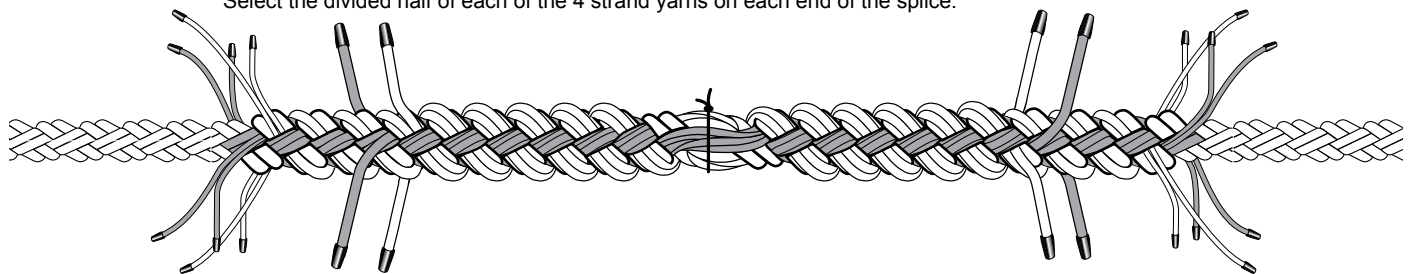
STEP 8 CONTINUING TUCKS

Splice the remaining single strands for 3 more full tucks.



STEP 9 FINISHING THE SPLICE

9A The tapering process continues by reducing the volume of each remaining strand by half (count the number of yarns that comprise each strand and divide as evenly as possible.) Select the divided half of each of the 4 strand yarns on each end of the splice.



9B With the remaining 4 half-volume single strands on each side of the splice, perform 3 full tucks. Tape the strands after they have been tucked and cut them off as done with previous strands.

