



## END FOR END 12-STRAND CLASS II

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

Additional rope needed for splice:  
7 fid lengths.

This end for end splice may be performed on new or used rope. This is an all-purpose splice technique designed for people who generally splice used rope as frequently as new rope. By following the procedure below, the splice can retain from 90% to 100% of average new rope strength and in used rope up to the same proportion of residual used rope strength.

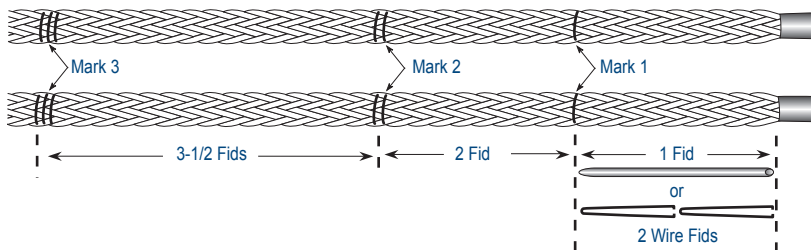


### STEP 1 MARKING MEASUREMENTS

Tape ends of line to be spliced. Lay 2 ropes to be spliced side-by-side and measure one tubular fid length, (2 wire fid lengths because wire fids are half size) from taped end of each line and make a mark — Mark 1.

From Mark 1 measure 2 tubular fid lengths (4 wire fid lengths) and make Mark 2 on both lines.

From Mark 2 measure 3-1/2 tubular fid lengths (7 wire fid lengths) and make Mark 3 on both lines.

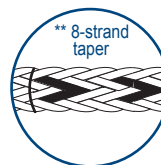
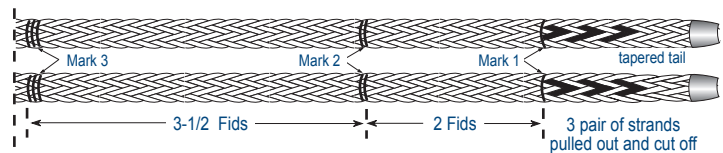


### STEP 2 TAPERING TAIL

From Mark 1, in the direction of the taped end of the line, mark every second right and left strand\* for 3 strands.\*\*

Cut every marked strand and pull out of line (tape at end can cause resistance and may have to be removed in order to pull out cut strands).

Tapered end will now have only 6 strands remaining (or 4 strands if the rope is an 8-strand construction). Tape tapered tail tightly to keep from unbraiding.

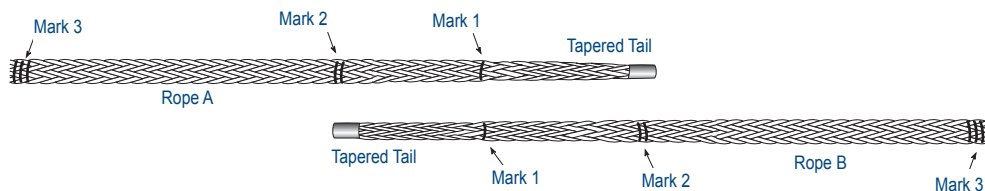


\*Some rope diameters may have pairs of strands in right and left direction. In this case, treat the pairs of strands as a single strand, marking and cutting both in each direction as described below.

\*\*For an 8-strand construction, mark every 3rd left and right strand for 2 strands.

### STEP 3 REPOSITIONING ROPES

Reposition ropes for splicing according to diagram above.





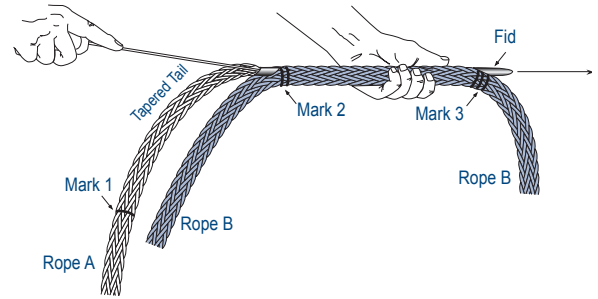
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**STEP 4**

**BURYING ROPE A INTO ROPE B**

Attach fid to tapered end of Rope A and insert fid into Rope B at Mark 2 and bring out at Mark 3. Then remove fid.

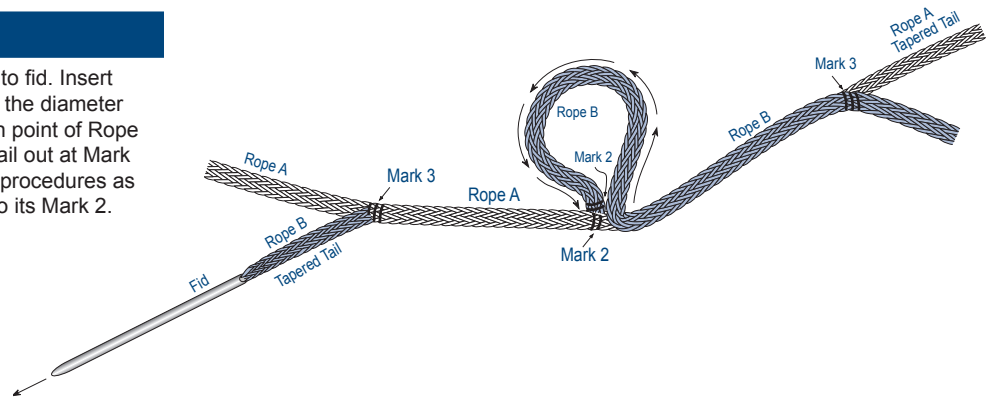
Pull tapered tail of Rope A until you have buried up to Mark 2. Once you have fid and tapered tail through the line, tie off tail to stationary object; then use both hands and weight of body to bury Rope B up to Mark 2. Leave tail sticking out.



**STEP 5**

**FINISH BURYING**

Attach tapered tail of Rope B to fid. Insert fid into Rope A approximately the diameter of the line away from insertion point of Rope A into Rope B. Bring fid and tail out at Mark 3 of Rope A. Following same procedures as in Step 4 to bury Rope B up to its Mark 2. Leave tail sticking out.

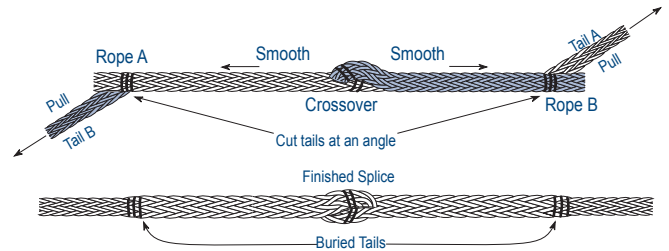


**STEP 6**

**SMOOTH OUT SPLICE**

Pull tails to tighten crossover. Then, smooth braid in both directions away from the crossover. Now cut off tails—cut tails on an angle so as to give them a point.

Give a final smoothing, away from crossover, stroking rope firmly. Tails should bury inside cover.



**STEP 1**

**LOCK STITCH PROCEDURE**

From Mark 2 at crossover, count 8 picks in either direction and insert stitching twine.

**STEP 2**

Working towards the crossover, pass end "B" back and forth through splice until a minimum of 3 complete stitches have been made on each side of crossover.

**2A** Tie an overhand knot in each tail, as close to its exit point as possible.

**2B** Insert tail of stitching twine at exact location where twine emerges. Using needle or small fid, pull (or push) through rope at a slight angle. Pull hard on the end of the twine so that the knot disappears inside the rope. Trim off the remaining twine close to the rope.

