



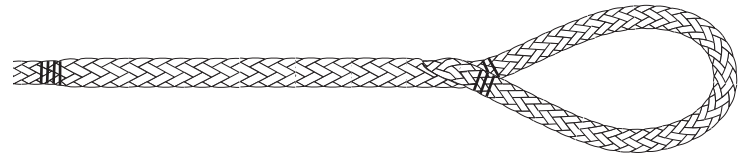
## EYE SPLICE 12-STRAND CLASS I

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

The eye splice is used to place a permanent loop in the end of a rope, generally for attachment purposes to a fixed point. An eye is also used to form the rope around a thimble, which is used to protect the rope, especially when it is to be attached to a shackle, chain or wire rope.

This eye 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.

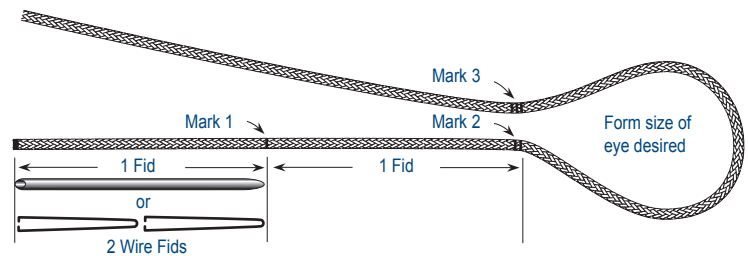
Additional rope needed for splice:  
2-1/2 fid lengths plus length of eye;  
with thimble: 2-1/2 fid lengths plus  
1/2 circ. in feet.



### STEP 1 MEASUREMENT

Tape end of line to be spliced and measure 1 tubular fid length (or 2 wire fid lengths because wire fids are half the length of tubular fids) from taped end of line and make Mark 1.

From Mark 1 measure 1 tubular fid lengths (or 2 wire fid lengths) and make Mark 2. Now form size of eye desired and make Mark 3.

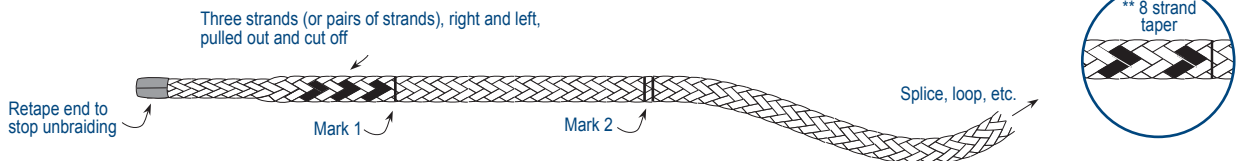


### STEP 2 MAKING TAPER

From Mark 1, in the direction of the taped end of the line, mark every second right and left strand\* for three 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 for an 8 strand braid). Tape tapered tail tightly to keep from unbraiding.

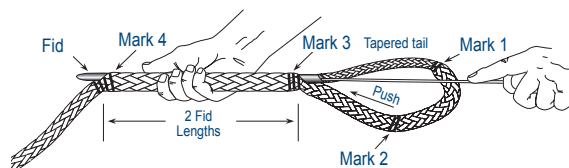
\*Some rope diameters may have pairs of strands in right and left direction. In this case, treat the pairs of strands as a single strand, marking and cutting both in each direction as described above.

\*\*For an 8-strand construction, mark every third left and right strand for two strands.



### STEP 3 BURY TAIL INTO STANDING PART OF LINE

Measure 2 tubular fid lengths (4 wire fid lengths), make Mark 4. Insert fid and tapered tail at Mark 3 and bring fid out at Mark 4. Pull fid and tapered tail out. Don't let the line twist.



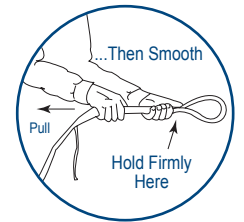
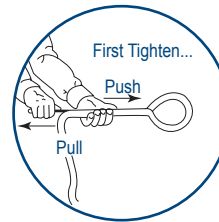
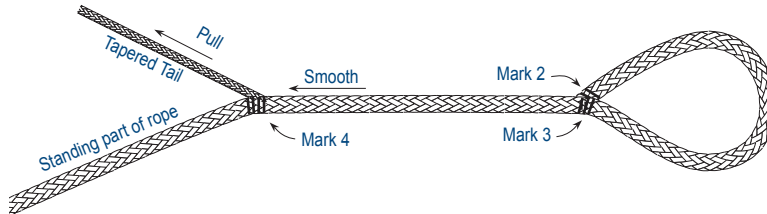


## EYE SPLICE 12-STRAND CLASS I

**STEP 4**

### FINISHING BURYING

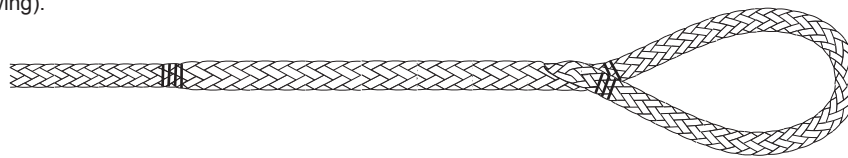
Remove fid. Pull hard on tapered tail with one hand. With other hand, smooth bunched line towards eye splice until Marks 2 and 3 converge. Now, smooth the cover away from eye towards Mark 4. Mark the tapered tail where it emerges at Mark 4. Pull tail out several inches, cut tail off at an angle, so the angle cut ends at this mark. Then with both hands and weight of body, smooth cover slack to bury tail in standing part of the line.



**STEP 5**

### TO FINISH EYE SPLICE

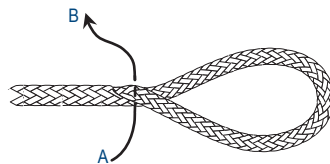
When finished, Mark 2 and Mark 3 should be at the same point in the vertex of the eye—which, yields eye size desired. To finish eye splice, the splice must be lock-stitched (procedure following).



### LOCK STITCH PROCEDURE

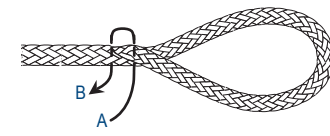
**STEP 1**

Pass stitching through spliced area near throat of eye as shown.



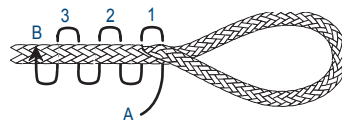
**STEP 2**

Reinsert as shown pulling snug but not tight.



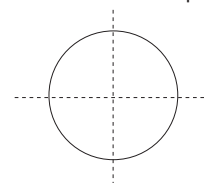
**STEP 3**

Continue to reinsert as shown until you have at least 3 complete stitches.



**STEP 4**

After completing Step 3, rotate spliced part of rope 90° and reinsert end A into spliced area in the same area and in the same fashion as in Steps 1, 2 and 3. The splice will now be stitched on two planes perpendicular to each other.



**STEP 5**

After stitching at least three complete stitches as in Step 3, extract both ends A and B together through the same opening in the braid. Tie them together with a square knot and reinsert back into braid.

