

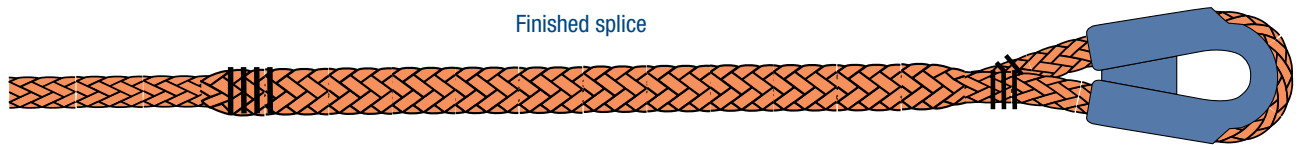


12-Strand Class II Outboard Eye Splice For K-100™

samson
THE STRONGEST NAME IN ROPE

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

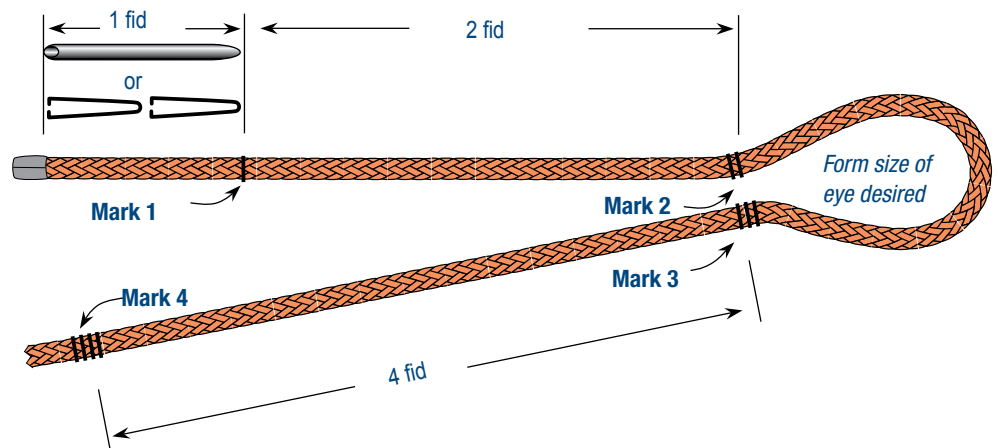
The eye splice is used to place a permanent loop in the end of a rope, generally for attachment purposes to a fixed point. An eye is also used to form the rope around a thimble, which is used to protect the rope, especially when it is to be attached to a shackle, chain, or wire rope. This eye splice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



STEP 1 MEASURING

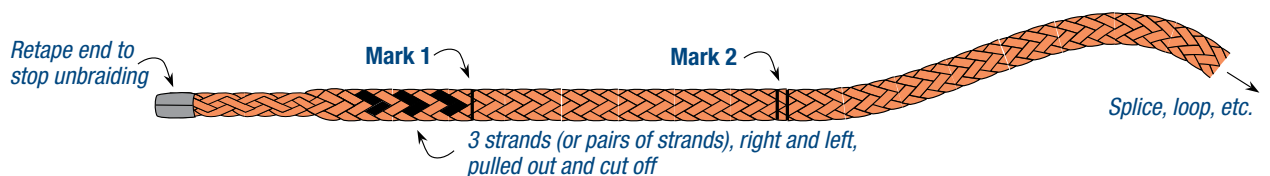
Tape end of line to be spliced and measure 1 tubular fid length (or 2 wire fid lengths) from taped end of line and make Mark 1.

From Mark 1 measure 2 tubular fid lengths (or 4 wire fid lengths) and make Mark 2. Now form size of eye desired and make Mark 3. Measure 4 fid from Mark 3 and make Mark 4.



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 3 strands. Pull every marked strand out of line and cut (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. Tape tapered tail tightly to keep from unbraiding.

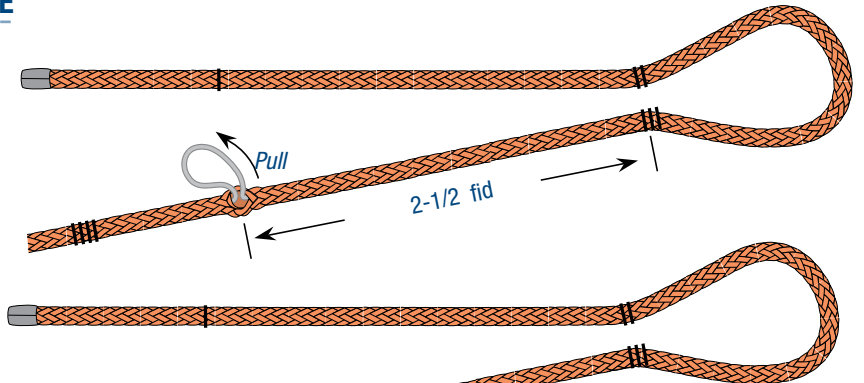




12-Strand Class II Outboard Eye Splice For K-100™

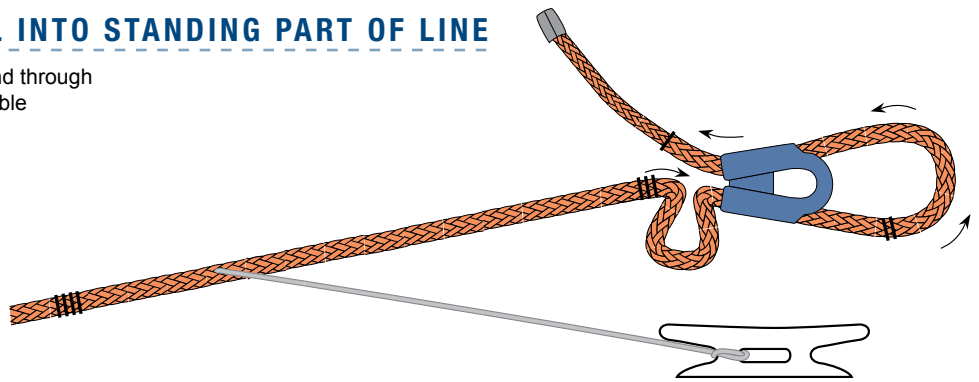
STEP 3 REMOVE REINFORCING CORE

Measure 2-1/2 fid lengths from Mark 3 towards Mark 4. Open up the strands of the core to expose the Duravet reinforcing core. Remove the Duravet core from this point to the bitter end of the rope and tie off to a fixed cleat to maintain tension on core allowing tapered 12-strand tail to be buried past without twisting around the core.

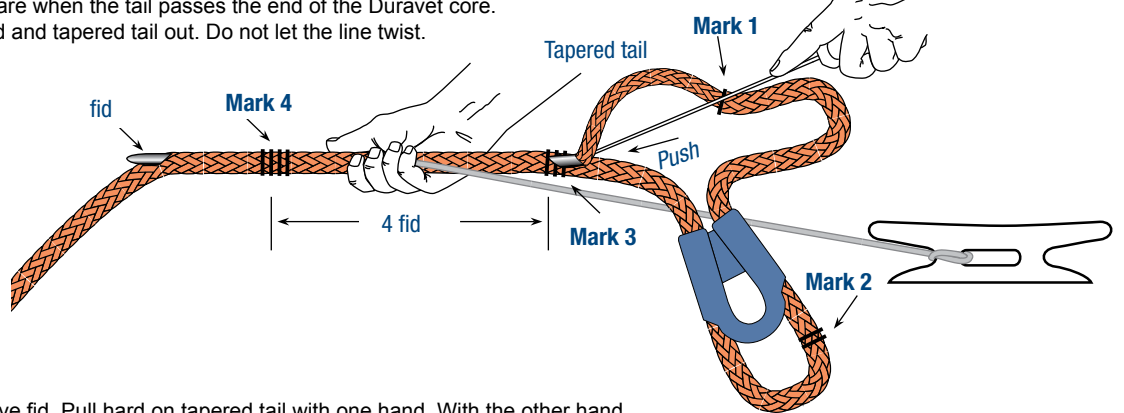


STEP 4 BURYING TAIL INTO STANDING PART OF LINE

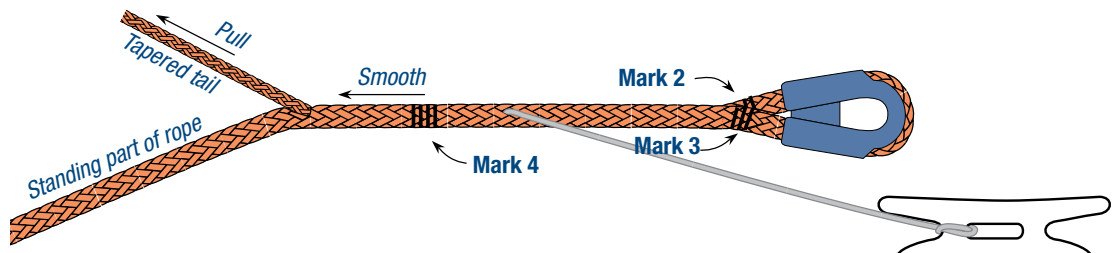
4A Route bitter end through BlueLine Thimble



4B Insert fid and tapered tail at Mark 3 and bring fid out beyond Mark 4. Use care when the tail passes the end of the Duravet core. Pull fid and tapered tail out. Do not let the line twist.



4C Remove fid. Pull hard on tapered tail with one hand. With the other hand, smooth bunched line towards eye splice until Marks 2 and 3 converge.

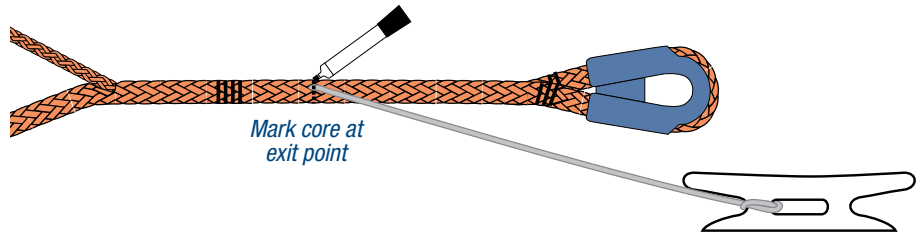




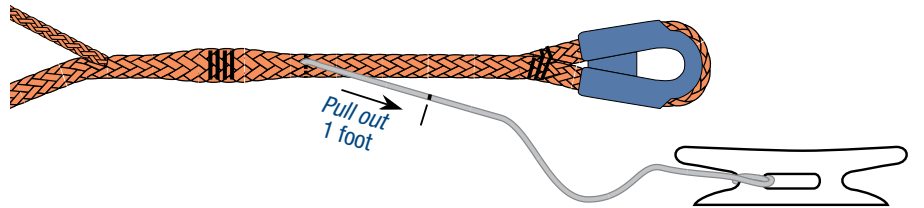
12-Strand Class II Outboard Eye Splice For K-100™

STEP 5 TAPER & BURY THE CORE

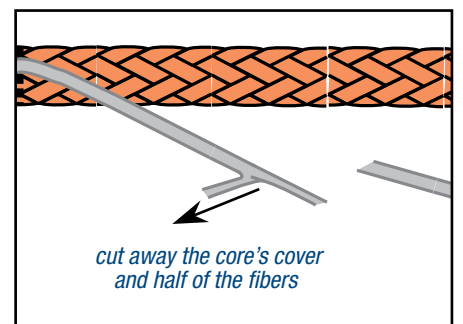
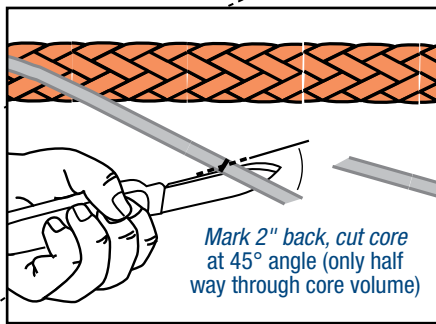
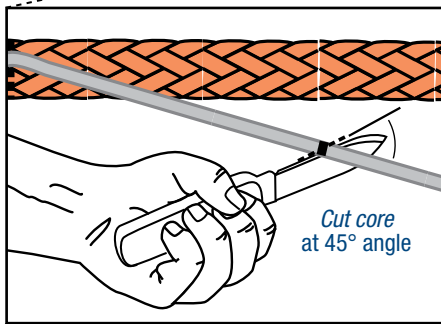
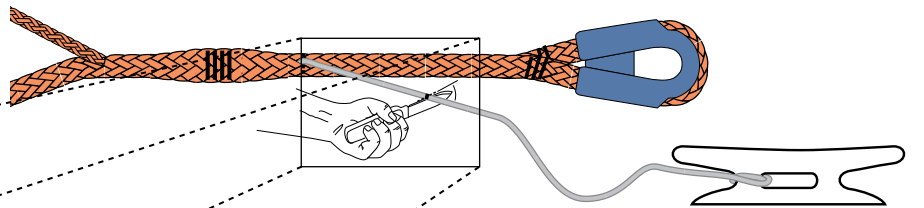
With the splice area smoothed and Marks 2 and 3 together, mark the core where it exits the rope.



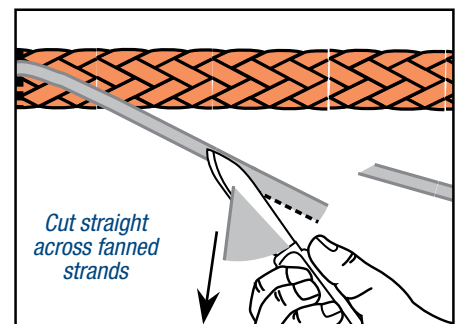
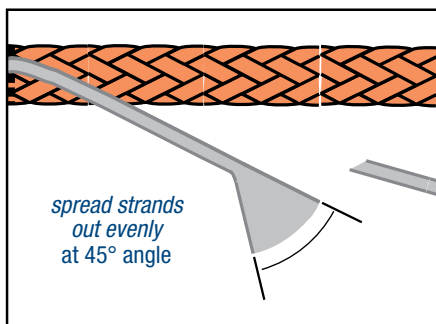
5A Pull out one foot of the core. Cut the core at a 45 degree angle at the mark.



5B From the end of the core, measure 2 inches and mark the core. At the mark, cut away the core's cover and half of the fibers of the core.

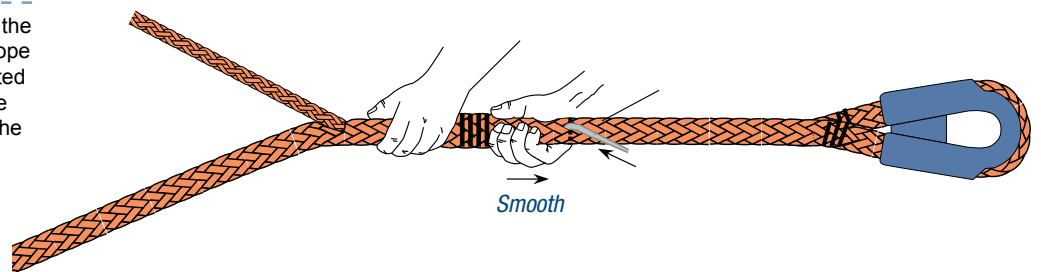


5C Fan out the remaining core strands and cut off to form the taper.



STEP 6 BURY THE CORE

Remove the rope from the cleat and smooth the rope from where it was cleated to the thimble. The core should disappear into the body of the rope.

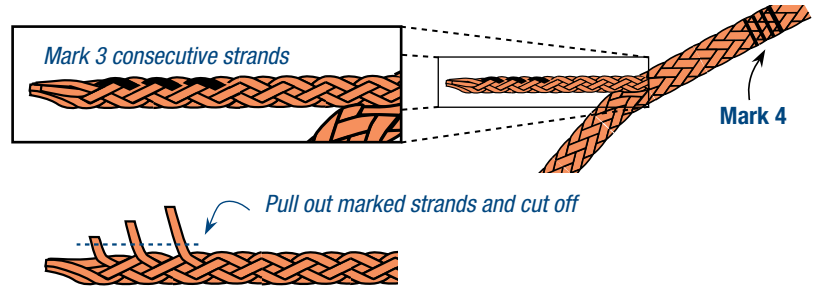




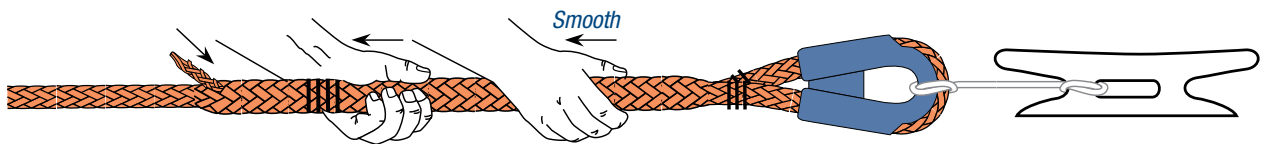
12-Strand Class II Outboard Eye Splice For K-100™

STEP 7 TAPERING & BURYING TAIL

Remove the fid and any tape at the end of the tail. From the end of the tail, mark 3 consecutive strands, as shown. Pull them out of the braid and cut off close to the body of the rope.

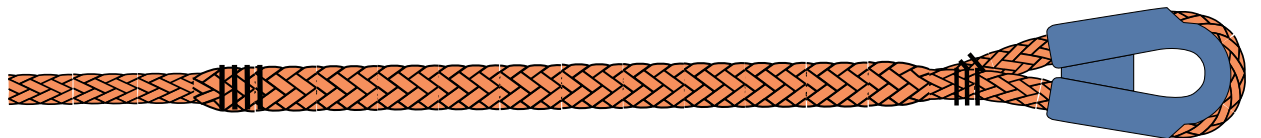


7A Now, secure the eye of the splice and then, using both hands and the weight of your body, smooth the cover slack from Mark 3 towards Mark 4. The tail will disappear into the rope, and a smooth, gradual taper should result.



STEP 8 FINISHING EYE SPLICE

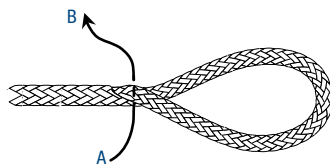
When finished, Mark 2 and Mark 3 should be at the same point at the vertex of the eye—which, yields desired eye size. To finish eye splice, the splice must be lock stitched (procedure follows).



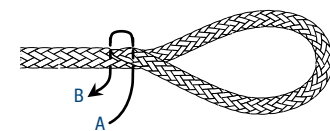
Finished splice

Lock Stitching Procedure

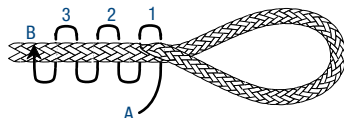
STEP 1
Pass stitching twine through spliced area near throat of eye as shown.



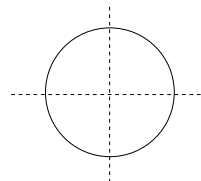
STEP 2
Reinsert twine through the rope. The twine should cover 2 strands from the exit point. Pull the twine snug, but not tight.



STEP 3
Continue to reinsert as shown until you have at least 3 complete stitches on each side of the rope. Each stitch should cross over 2 strands in the rope.



STEP 4
After completing Step 3, rotate spliced part of rope 90° and reinsert end A into spliced area in the same fashion as in Steps 1, 2 and 3. The splice will now be stitched on 2 planes perpendicular to each other. Make sure you do not pull the stitching too tight.



STEP 5
After stitching at least 3 complete stitches as in Step 3, extract both ends of the twine together through the same opening in the braid. Tie them together with a square knot and reinsert back into braid. For double braids, re-insert the knot between the cover and core.

