

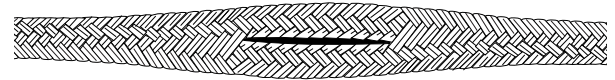


END FOR END DOUBLE BRAID CLASS I

Class I Double Braids are made from any or all of the following fibers: olefin, polyester, or nylon.

Additional rope needed for splice:
circ. of rope in feet x 2.

This splice can be performed on new and used rope. This is an all-purpose splice technique designed for people who generally splice used rope as frequently as new rope. It retains up to 85% of average new rope strength and in used rope up to 85% of the remaining used rope strength.

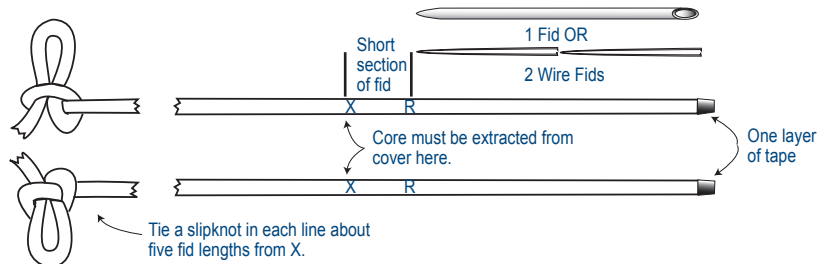


STEP 1 MARKING THE MEASUREMENTS

Tape the end of each rope with one thin layer of tape. Lay two ropes to be spliced side by side and measure one tubular fid length (two wire fid lengths because wire fid is 1/2 size) from end of each rope and make a mark. This is point R (Reference).

From R measure one short fid section length as scribed on the fid; then, mark again. This is Point X, where you should extract core from inside cover. Be sure both ropes are identically marked. Tie a slipknot approximately five fid lengths from X.

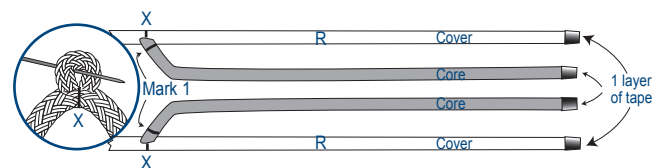
If you require the rope with the finished splice to be a certain overall length, refer to "Special Tips for Splicing", page 8 of this book.



STEP 2 EXTRACTING THE CORES

Bend rope sharply at X. With the pusher or any sharp tool such as an ice pick, awl, or marlin spike, spread cover strands to expose core. First pry; then, pull core completely out of cover from X to the end of rope. Put one layer only of tape on end of core.

To assure correct positioning of Mark 1 do the following: holding the exposed core, slide cover as far back towards the tightly tied slip knot as you can. Then, firmly smooth cover back from the slip knot towards taped end. Smooth again until all cover slack is removed. Then, mark core where it comes out of cover. This is Mark 1. Do this to both ropes.



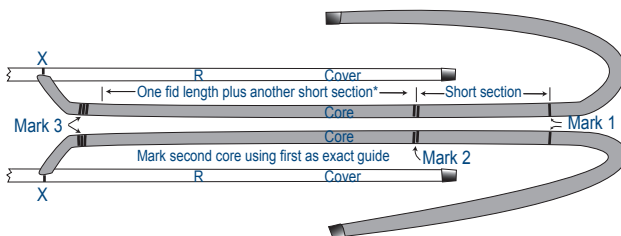
STEP 3 MARKING THE CORES

Hold one core at Mark 1 and slide cover back to expose more core.

From Mark 1, measure along core towards X a distance equal to the short section of fid* and make two heavy marks. This is Mark 2.

From Mark 2 measure in the same direction one fid length plus another short section* and make three heavy marks. This is Mark 3.

Mark second core by laying it alongside the first and using it as an exact guide.



* With wire fid double measurements up to 13" circumference.



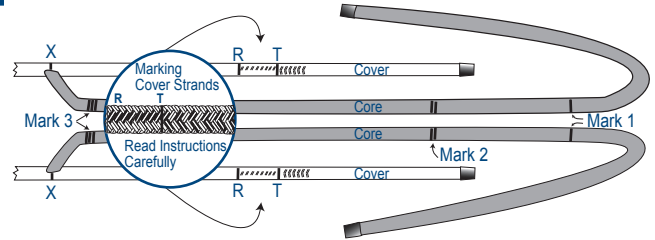
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STEP 4

MARKING THE COVER FOR TAPERING

Note nature of the cover braid. It is made up of strands. By inspection you can see that half the strands revolve to the right around the rope and half revolve to the left. Beginning at R and working toward the taped end of cover, count eight consecutive pairs of cover strands which revolve to the right (or left). Mark the 8th pair. This is Mark T. Make Mark T go completely around cover.

Starting at T and working toward taped cover end count and mark every second right pair of strands for a total of six. Again, starting at T, count and mark every second left pair of strands for a total of six. Make both ropes identical.

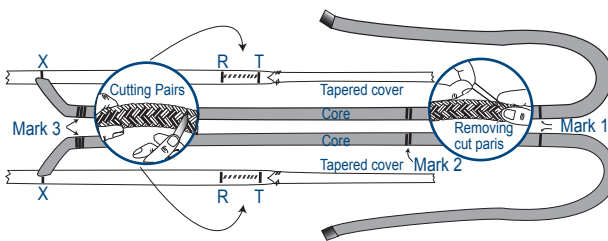


STEP 5

PERFORMING THE TAPER

First remove tape from cover end. Starting with last marked pair of cover strands toward the end, cut and pull them completely out. Cut and remove next marked strands and continue with each right and left marked strands until you reach Point T. Do not cut beyond this point. Retape tapered end.

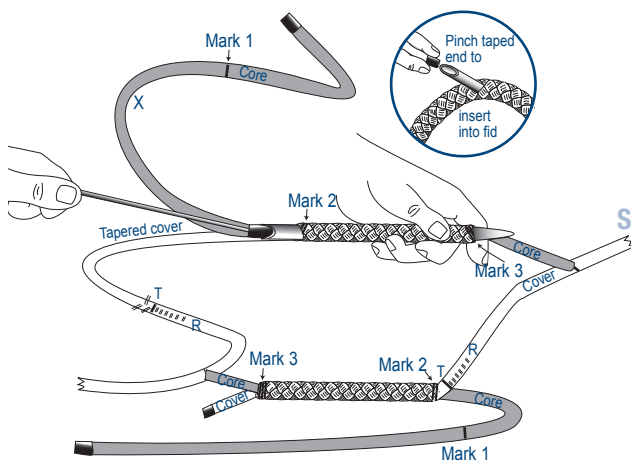
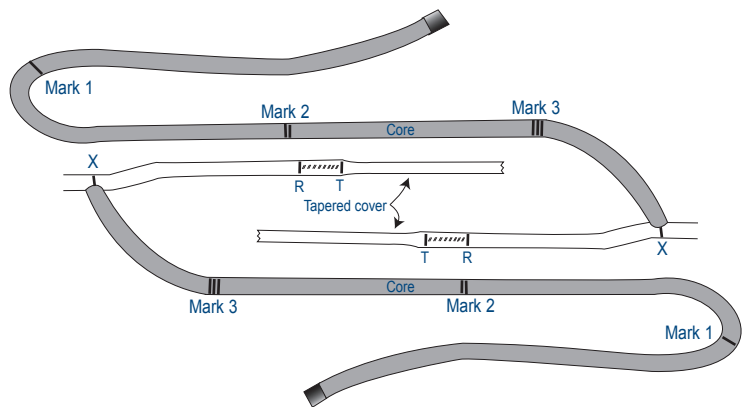
Cut and remove marked strands on the other marked cover, again stopping at T. Retape tapered end.



STEP 6

REPOSITIONING THE ROPES

Reposition ropes for splicing according to diagram. Note how cover of one rope has been paired off with core of the opposite line. Avoid twisting.



STEP 7

PUTTING THE COVER INSIDE CORE

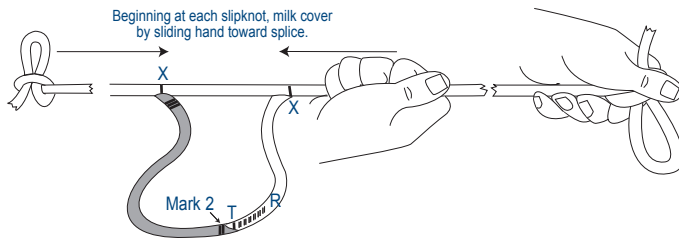
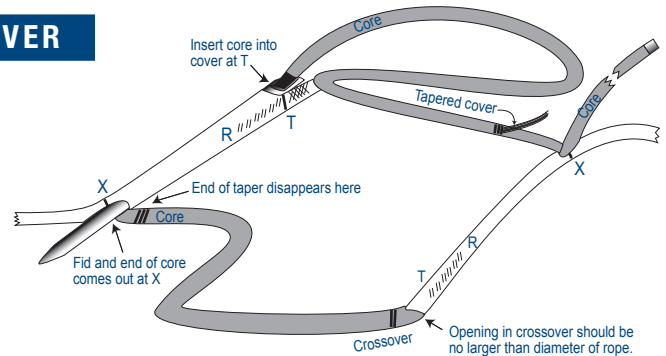
Insert fid into one core at Mark 2 and bring it out at Mark 3. Add extra tape to tapered cover end then jam it tightly into hollow end of fid. Hold core lightly at Mark 3, place pusher point into taped end pushing fid and cover in it from Mark 2 and out at Mark 3. When using wire fid, attach fid to cover. Then pull fid through from Mark 2 to Mark 3. Pull cover tail through core until Mark T on cover meets Mark 2 on core. Insert other cover into core in same manner.



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STEP 8 REINSERTING THE CORE INTO THE COVER

Now put core back into cover from T to X. Insert fid at T, jam taped core tightly into end of fid. With pusher, push fid and core through cover bringing out at Point X. When using wire fid attach fid to taped core. Then pull fid and braid through from T to X. Do this to both cores. Remove tape from end of cover. Bring crossover up tight by pulling on core tail and on tapered covered tail. Hold crossover tightly smoothing out all excess braid away from crossover in each direction. Trim end of Tapered cover at an angle to eliminate blunt end. Tapered cover tail will disappear at Mark 3. Cut core tail off close to Point X at an angle.



STEP 9 BURYING THE EXPOSED CORE

Hold rope at slipknot and with other hand milk cover toward the splice, gently at first, and then more firmly. The cover will slide over Mark 3, Mark 2 the crossover and R. Repeat with the other side of the splice. Continue burying until all cover slack between the knot and the splice has been removed.

STEP 10 FINISHING THE SPLICE

The splice is done when all cover slack has been removed and there is an opening in the splice approximately equal in length to the diameter of rope. If, at the opening, one side of the splice is noticeably longer than the other side, something is wrong. Check Steps 1–9 and remake if necessary. Now untie the slip knots.

