



END FOR END ROUND PLAIT CLASS I

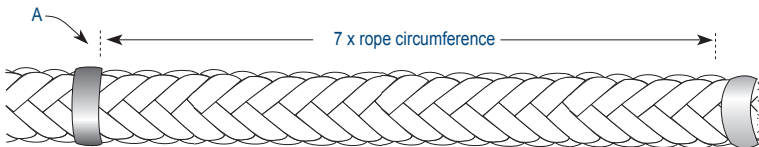
Class I Round Plait ropes are made from any or all of the following fibers: olefin, polyester, or nylon. These instructions illustrate a "tuck" splice that can be performed in the field on new or used rope.

Additional rope needed for splice:
2-1/2 fid lengths.

STEP 1

MEASUREMENT

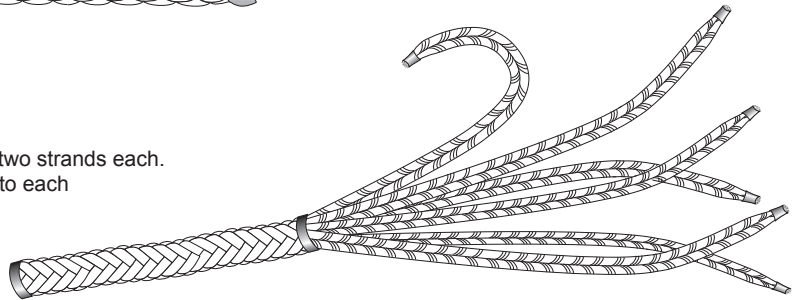
Lay out and measure down from the end of each rope a length that is equal to seven times the rope circumference (21 times rope diameter). At this point put one loose wrap of tape around the rope (Point "A"). Tape each of the 12 strands at the end of the rope. After the ends are taped unbraided each rope back to point "A".



STEP 2

TAPE STRAND PAIRS

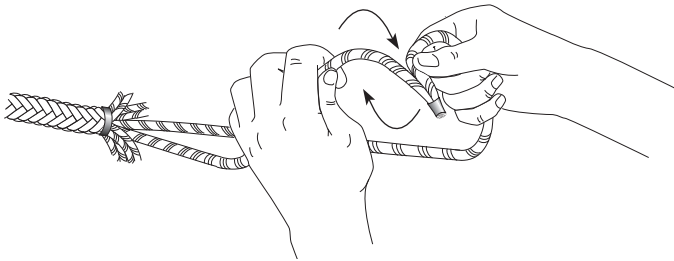
Combine the 12 individual strands into six pairs of two strands each. The strands that are paired up should be adjacent to each other at point "A". If done correctly, there should be one "S" strand (clockwise twist), and one "Z" strand (counterclockwise twist) in each pair.



STEP 3

TWIST STRAND PAIRS

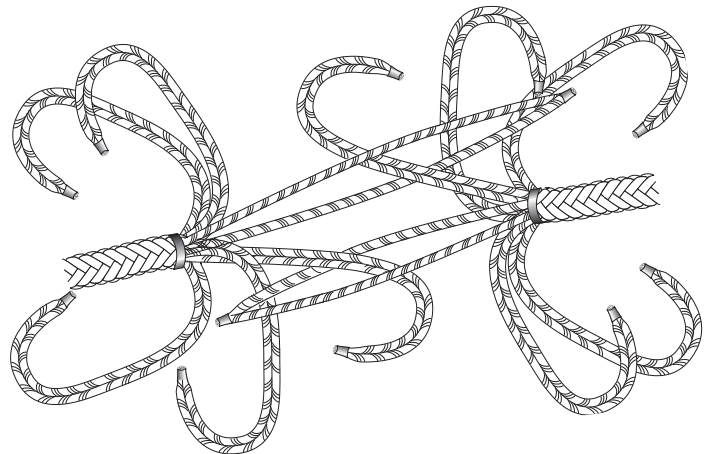
Tape the two strands together. It is desirable that these strands retain some twist. To twist the strands merely hold the two strands as shown and rotate the taped end between the strands.



STEP 4

JOIN ROPES

Join the two ropes together at point "A" and combine the pairs by starting at any one set of opposing set of strands and inserting one pair of strands between the strands of its opposite pair. This step is alternated, right, left, etc. as you join the pairs around the rope until all pairs have been joined. Draw strand pairs tight to bring points "A" together.





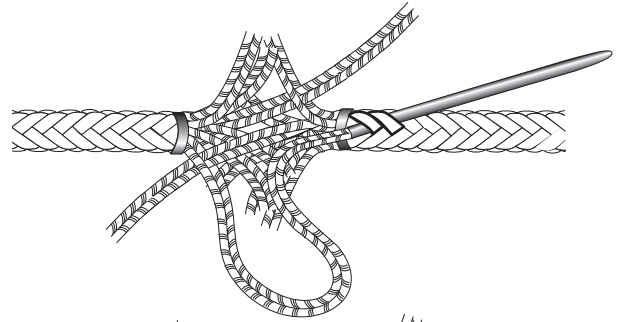
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STEP 5

BEGIN TUCKS

Now you can begin to tuck the pairs. One complete tuck consists of passing a strand pair over 1 strand and under two strands of the body of the rope. Pull the strands through and repeat on opposite pair, tucking straight down the body of the rope.

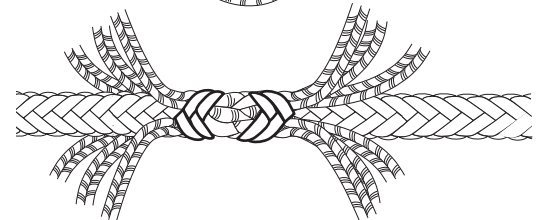
SPECIAL TIP: When making the tucks, don't pull the strands excessively tight and keep them twisted. This allows the tucked strands to elongate the same as the body of the rope, thereby preventing the tucked strands from being prematurely overloaded.



STEP 6

CONTINUE TUCKS

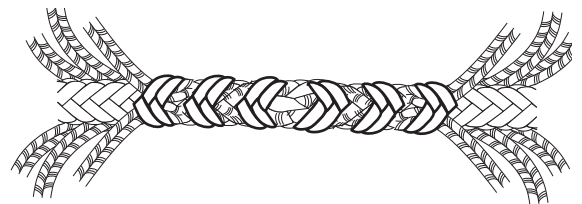
Do 1 complete set of tucks on all 12 strand pairs. Note: when pulling on the strand pairs, do not attempt to pull them so tight that they become straight. It is desirable to leave the tucked strands with some twist in them so that they have the necessary elongation when the rope is placed under a load



STEP 7

COMPLETE TUCKING

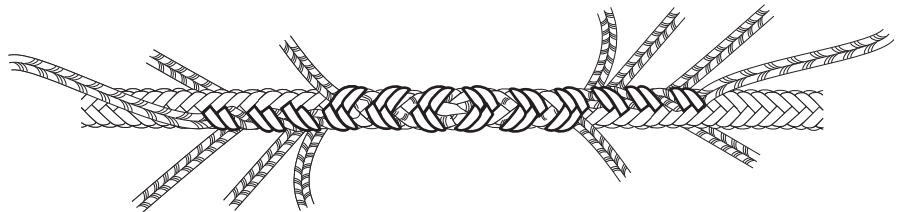
Do 3 complete tucks on each side of the splice with all 6 strand pairs. Each strand pair is always tucked under the same line of braid so that the tuck progresses straight down the body of the rope.



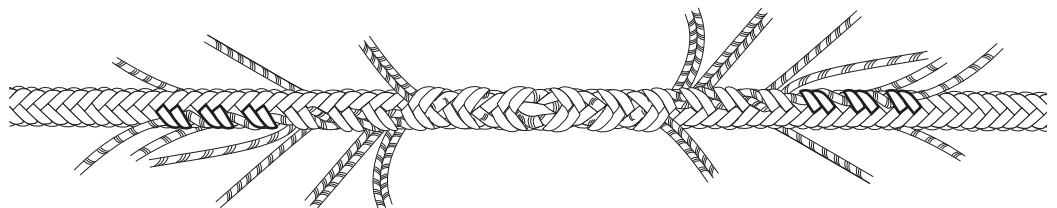
STEP 8

TAPERING THE SPLICE

After completing the first 3 tucks drop every other strand pair and continue to do 3 more tucks with the remaining 3 pairs. This is done on each side of the splice.



STEP 9



STEP 10

FINISHING THE SPLICE

Once you have completed the last tucks, cut off the excess material and tape or whip the ends. Leave enough of an end protruding so that the end does not slip back into the rope when a load is placed on it.

