



EYE SPLICE 8-STRAND CLASS II

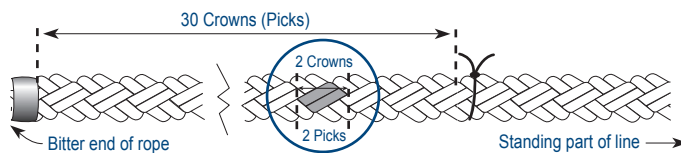
Class II ropes are made in whole or part from any of the following high modulus fibers: Dyneema®, Vectran®, Technora®, and Zylon®.

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.

Additional rope needed for splice:
length of 30 crowns plus length of eye:
with thimble: length of 30 crowns plus
1/2 circ. in feet.

GETTING STARTED

Plaited rope is no more difficult to splice than 3-strand. It is made of 8-strands grouped in 4 pairs. 2 of these pairs turn to the left and 2 to the right. The illustrations show the 2 pairs turning to the left in white and the 2 pairs turning to the right in gray. They will be referred to as the "white" and "gray" pairs. **Note:** The gray pairs are diametrically opposite one another but at a 90-degree angle to the white pairs and vice-versa.



EYE SIZE:

The size of the eye is determined by bending the bitter end of the rope back over itself for a distance equal to the desired length of the eye plus a length of 30 picks (crowns).

PREPARATION:

If the rope which you are about to splice is all of one color, mark those pairs which turn to the right so that they will conform with the gray pairs in the illustrations. Count back a distance of 30 picks from the end and tie a string securely around the rope so it passes directly over the center of both pairs of gray strands. Place the knot so that it is directly on top of one of these pairs. It is important that this be tied securely to prevent slipping. Now, unlay the pairs of strands back to the string. Making sure not to mix, or twist them, tape the ends of the pairs together.

STEP 1

Hold of lay the rope so that the pairs of white strands are on top and bottom with a knot to the right as you look toward the end.

STEP 2

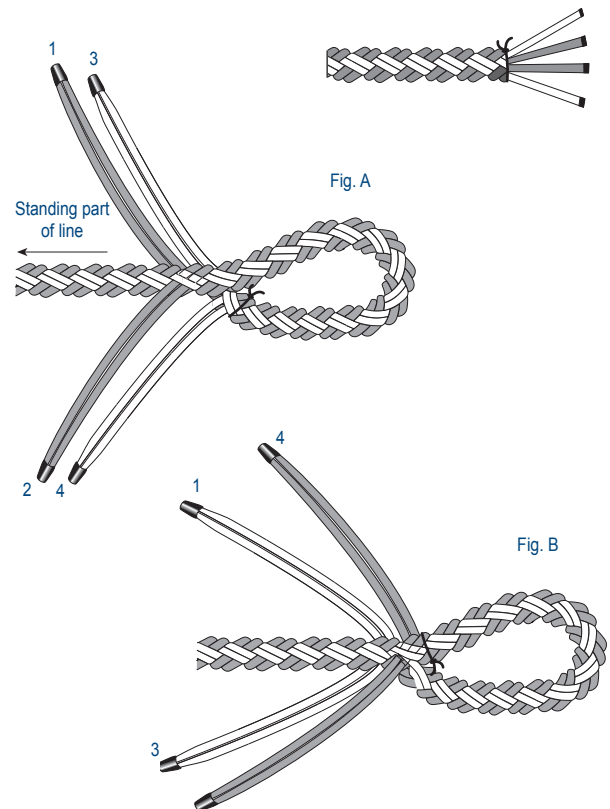
Bend the rope over to form the desired eye in such a way as to keep the knot inside the loop as shown in fig. A.

STEP 3

Using the fid to make clearance and starting with the gray pairs, tuck them under the diametrically opposite white pairs as shown in fig. A. Make sure you do not disturb the lay of the pairs. Do not twist them so that the individual strands cross over one another in the pair.

STEP 4

Now turn eye over, tuck the white pairs under the diametrically opposite gray pairs as shown in fig. B. Note that in fig. B the splice is turned over from fig. A. The white pairs to be tucked should follow the white pairs of the standing part and the gray to be tucked should follow the gray pairs of the standing part. The ends in the drawing have been numbered to help show their position as the tucks progress.

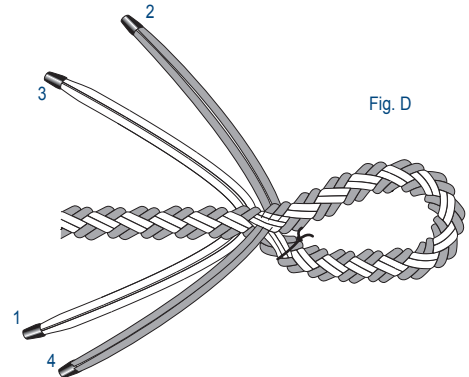
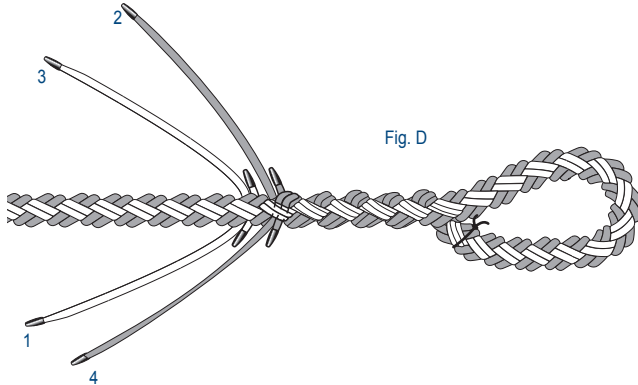




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STEP 5

Now you have your eye with the first full tuck complete (a full tuck means inserting all 4 pairs); pull all 4 ends down firmly. Starting with the gray pairs, take another full tuck. By starting with the gray pairs you avoid having to go under 2 pairs at once. Your splice should now look like fig. C, (which now lays on the same side as fig. A). From here on, you should have no difficulty completing the splice.



STEP 6

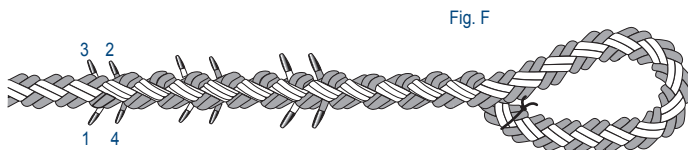
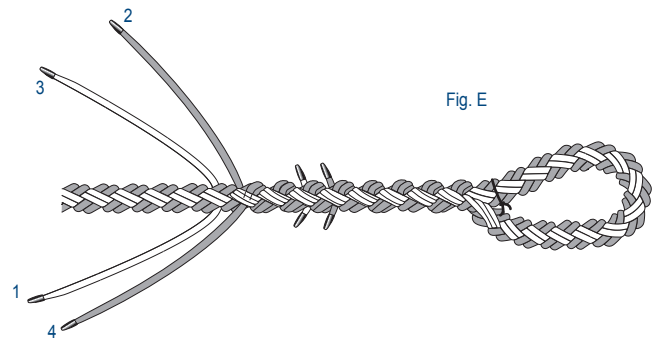
Now starting with the gray pairs, make four more full tucks with each pair of strands.

STEP 7

Having completed 6 full tucks for each pair of strands, select the strand in each pair that is closest to the eye and tape it where it emerges from the tuck. Then cut off the taped strands as shown in fig. D.

STEP 8

Now splice the remaining single strands just as before for another three full tucks. The splice should now appear as shown in fig. E, which will lay on the opposite side as shown in fig. D. Each single strand should now have three full tucks.



STEP 9

The tapering process continues by reducing the volume of each remaining strand by half (count the number of yarns that comprise each strand and divide as evenly as possible). Select the divided half of each of the four strand yarns.

STEP 10

With the remaining four half-volume single strands, perform three full tucks. Tape the strands after they have been tucked and cut them off as done with previous strands.