



EYE SPLICE 8x3-STRAND CLASS II

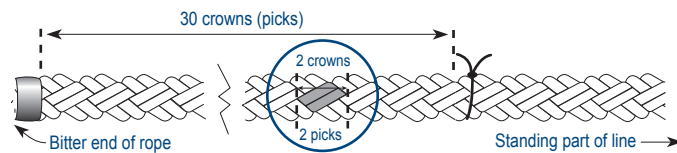
Class II ropes are made in whole or part from any of the following high modulus fibers: Dyneema®, Vectran®, Technora®, and Zylon®.

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 eye;
with thimble: length of 30 crowns plus
1/2 circumference in feet.

GETTING STARTED

8x3 rope is no more difficult to splice than 3-strand. It is an 8-strand plaited rope where the strands are made from 3-strand ropes. The 8-strands are grouped into 4 pairs. 2 of these pairs are left-lay and 2 are right-lay. 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 as shown in Fig. A.

STEP 1 POSITION THE ROPE

Hold or 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.

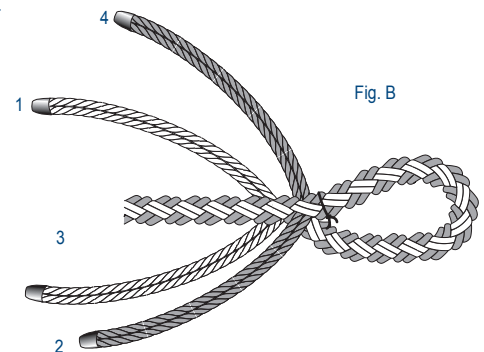
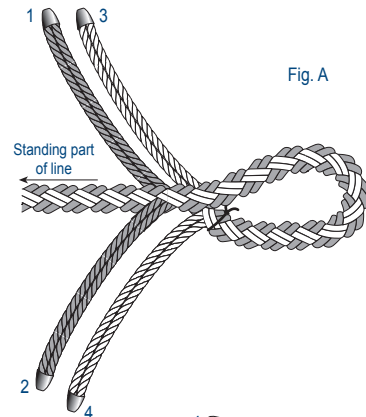
STEP 2 Bend the rope over to form the desired eye in such a way as to keep the knot inside the loop as shown in Fig. A.

STEP 3 TUCKING FIRST STRAND

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 FINISHING THE FIRST TUCKS

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

CONTINUE TUCKING

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.

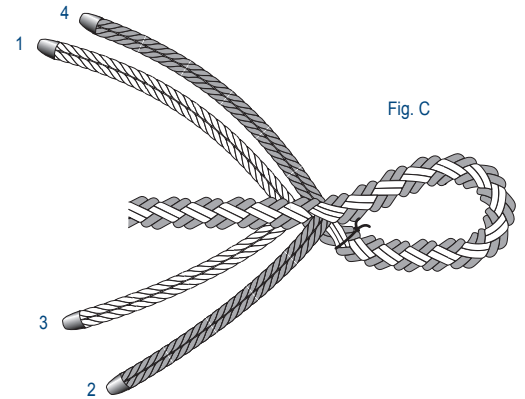


Fig. C

STEP 6

Now starting with the gray pairs, make 4 more full tucks with each pair of strands.

STEP 7

TAPERING THE STRANDS

Having completed 6 full tucks for each pair of strands you will need to reduce the strand volume by 1/3rd before continuing the next set of tucks. To do this, cut one of the three strands out of each strand pair as shown in Fig. D.

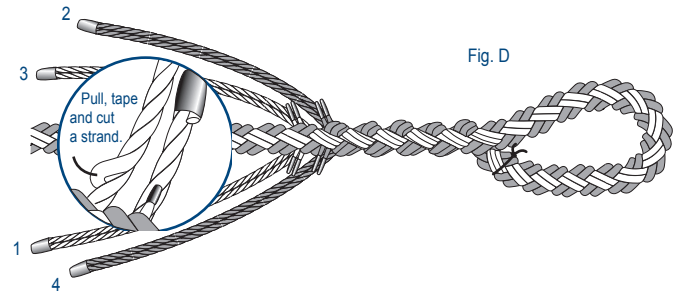


Fig. D

STEP 8

Now splice the remaining strands just as before for another 3 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 strand should now have 3 full tucks.

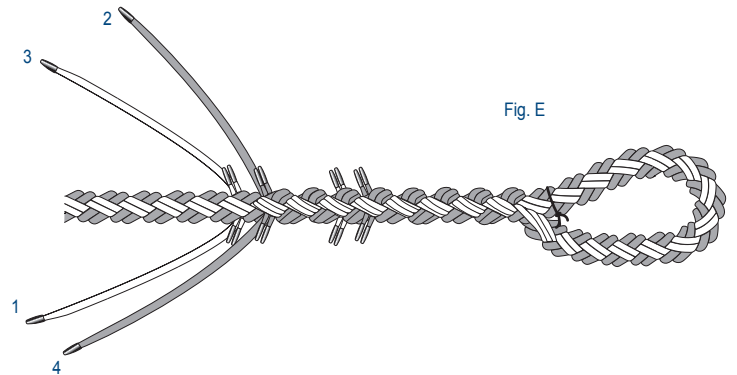


Fig. E

STEP 9

TAPER THE STRANDS

The tapering process continues by reducing the volume of the remaining strands by half (by unlacing both strand-pairs and then removing 1 of the 2 unlaid strands in each strand-pair, as in Step 6).

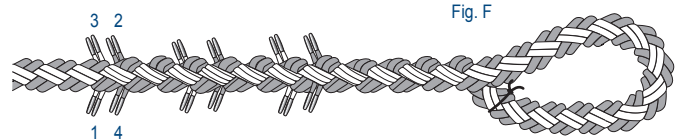


Fig. F

STEP 10

FINISHING THE SPLICE

With the remaining strands, perform 3 full tucks. Tape the strands after they have been tucked and cut them off as done with previous strands.