

# Lankhorst | *Ropes*

Subject:

**LANKO<sup>®</sup> FORCE**

Splice Instruction

Maritime Division

Date: 15/ 10/ 2020 rev. 00

## LANKO®FORCE Splice

This splice is suitable for LANKO®FORCE 12-strand ropes.

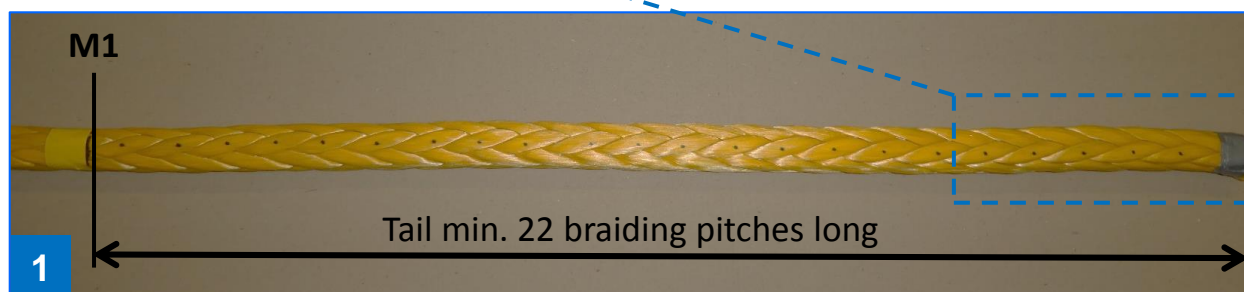
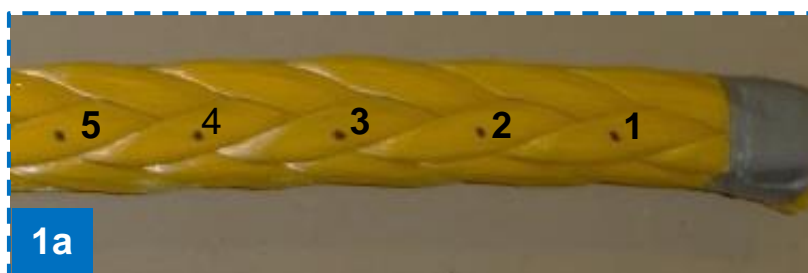
This procedure describes the splice being tucked for 10½ times. (suitable for standard applications)

Tools needed:

Sharp knife, tape and a splice fid.

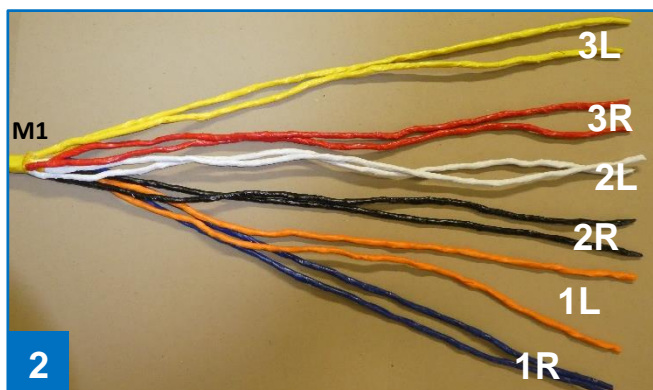
### Step 1: Measure and mark

- Measure out the length of the tail. It should be min. 22 braiding pics long.
- Wrap tape or secure a small rope, around the rope at mark one (M1).



### Step 2: Preparing the splice tail.

- Unbraid the tail and tape the end of all the 12 strands.(using two different colors of tape for left and right handed strands makes it more easy later in the process)
- Bend the rope to form the eye and add eye protection if required.
- Unbraid the tail until mark M1
- Divide the 12 strands into 6 pairs, 3 pairs of left hand lay and 3 pairs of right hand lay. (see picture 2)



(For illustration purposes the complete strands are taped in different colors)

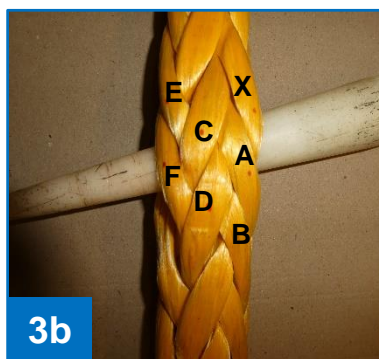
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### Step 3: Start splice (entry position)

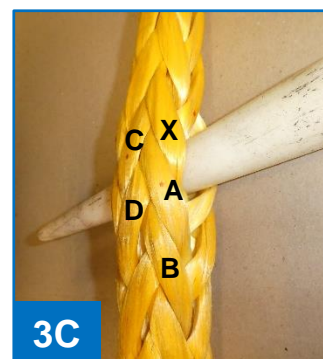
- Position your splice fid tough the middle of the rope like in below pictures 3a+b+c,
- Entering under strand "X" and exit again under strand "F"
- All first 6 strands tucked will enter the rope construction under strand "X"



Left side view on rope

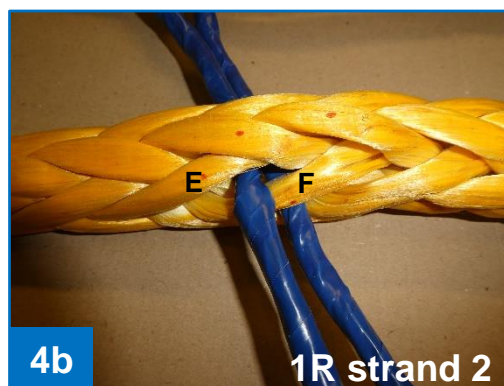


top view on rope

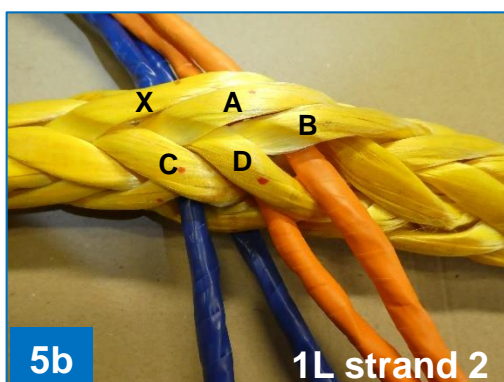


right side view on rope

- Tuck in the first strand pair of the right hand twisted strands (1R) under strand E and F of the rope construction



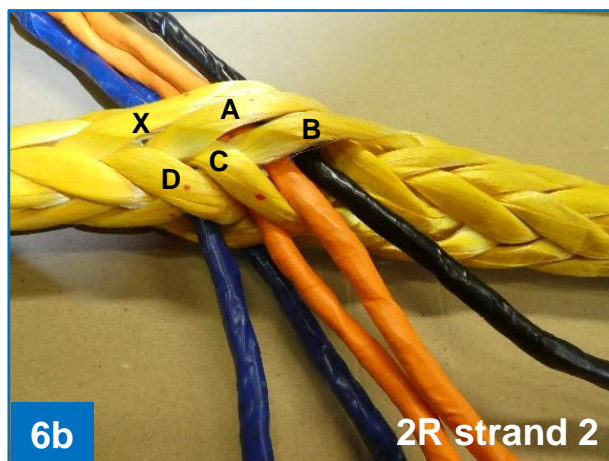
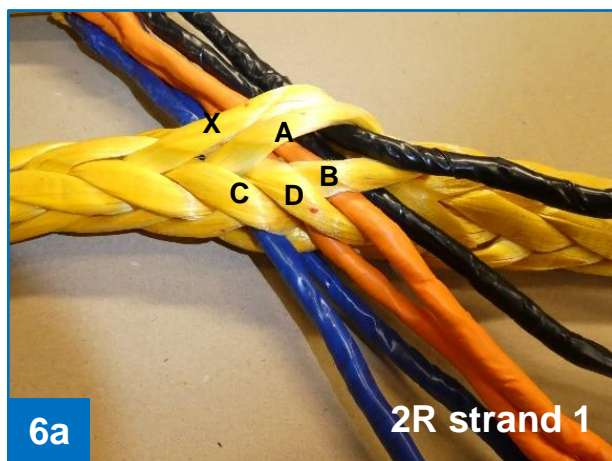
- Tuck in the first strand pair of the left hand twisted strands (1L) above strand C and D of the rope construction



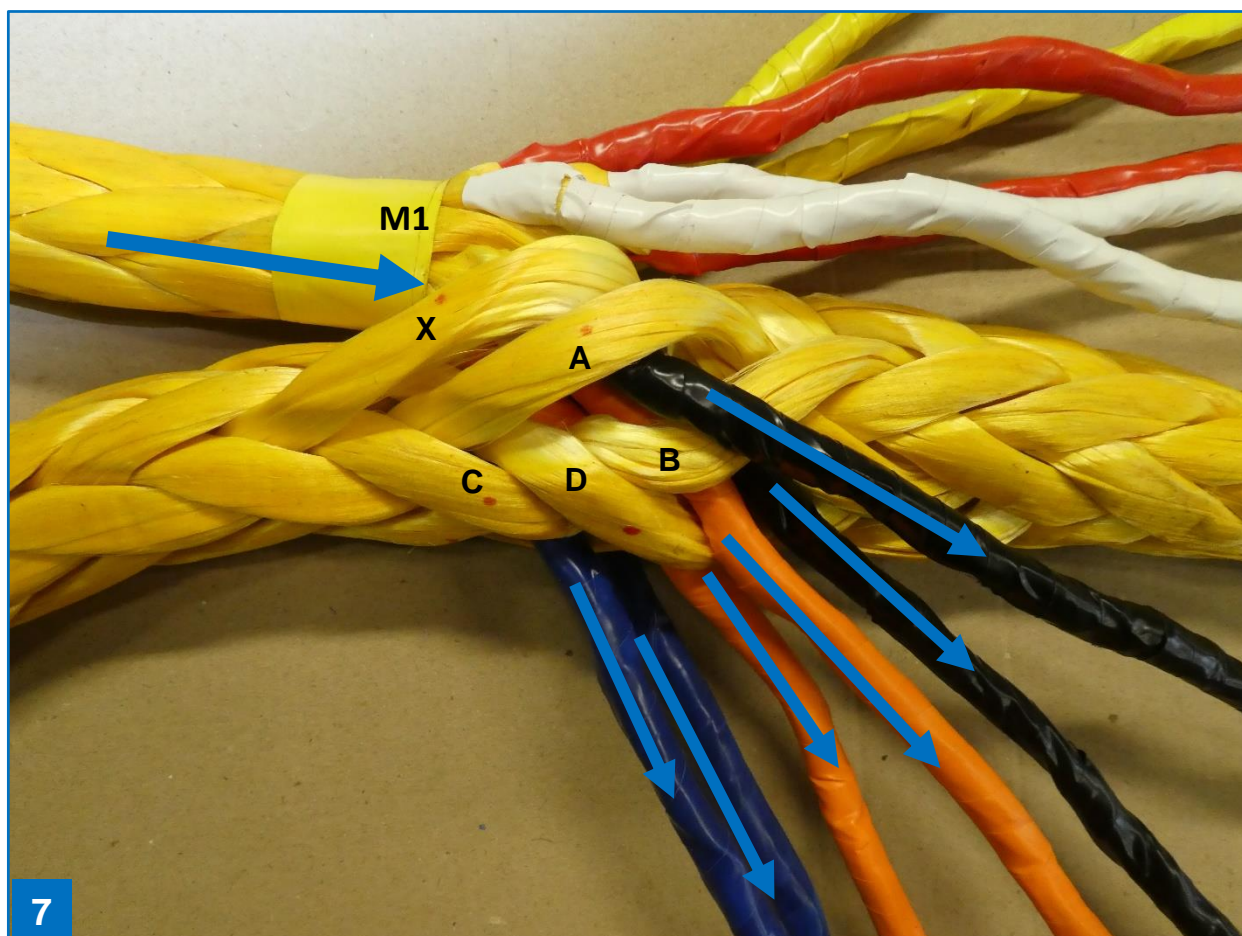


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- Tuck in the second strand pair of the right hand twisted strands (2R) under strand A and B of the rope construction.

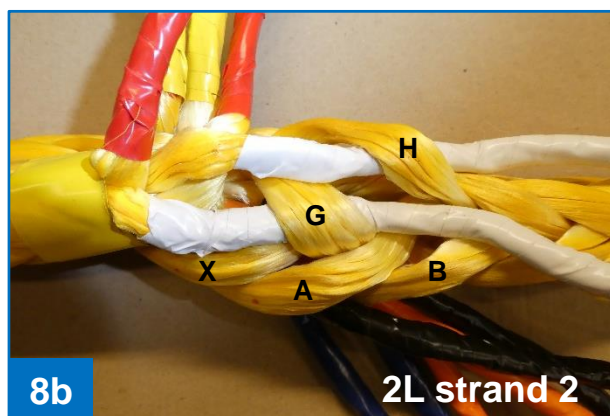
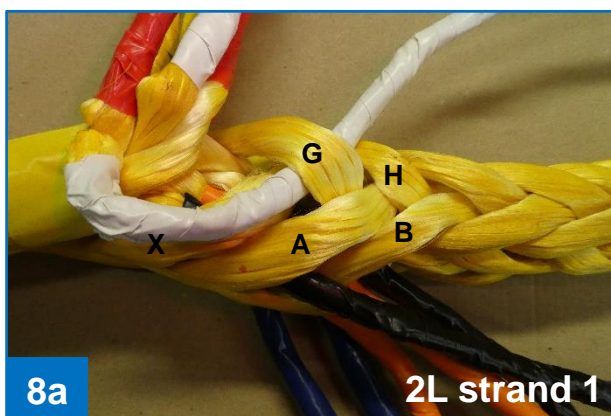


- After the first 3 strand pairs are positioned, pull the strands into the rope construction, until the previous taped section (M1) of the eye is positioned at the entry point of the splice.

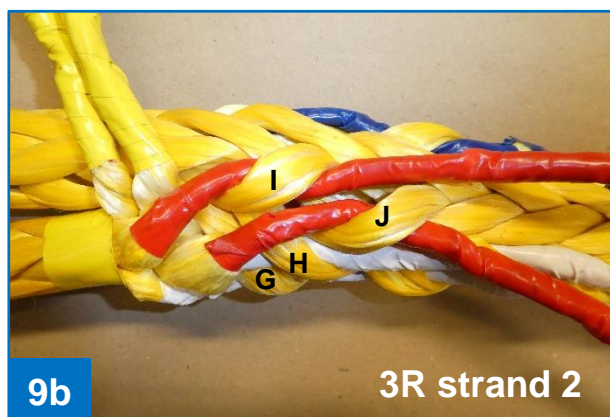
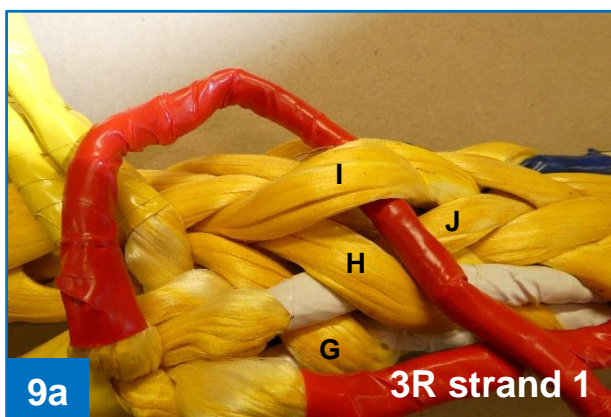


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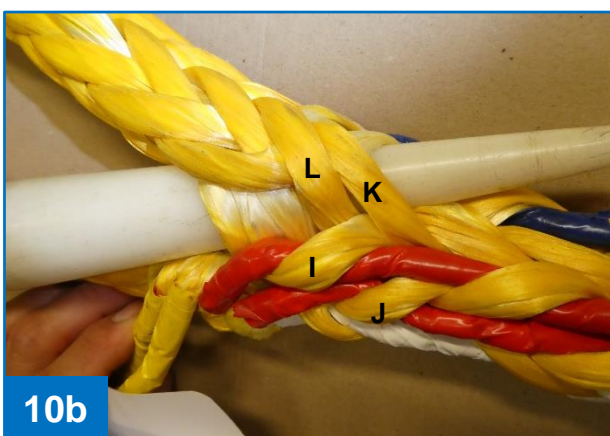
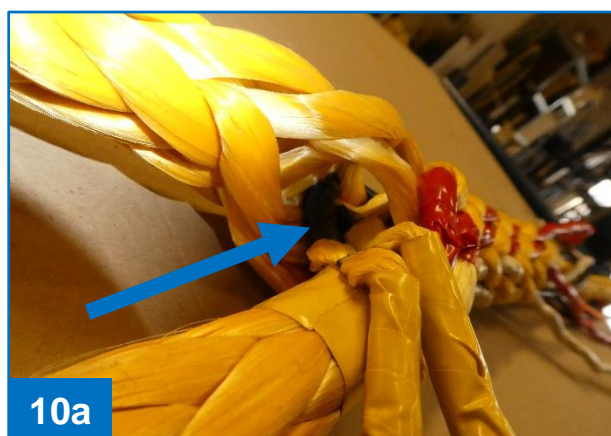
- Turn the rope slightly to the left side and tuck in the second strand pair of the left hand twisted strands. (2L) into the other half of the rope construction, under strand G and H.



- Turn the rope 180° around from the starting position, tuck in the third strand pair of the right hand twisted strands. (3L) under strand I and J.



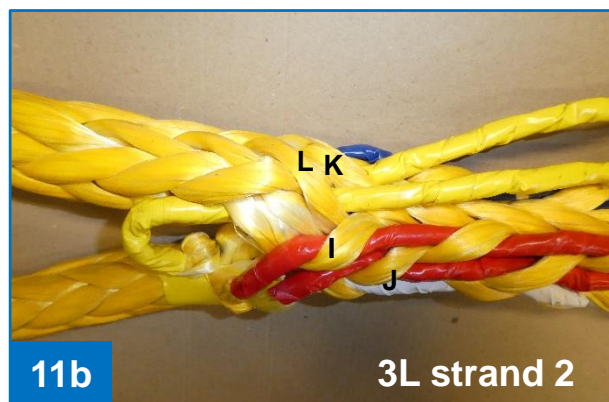
- Position your splice fit half way the rope part of the eye, as close as possible to the splice and exit under strand K.





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- Tuck in the third strand pair of the left hand twisted strands. (3L), under strand K and L.

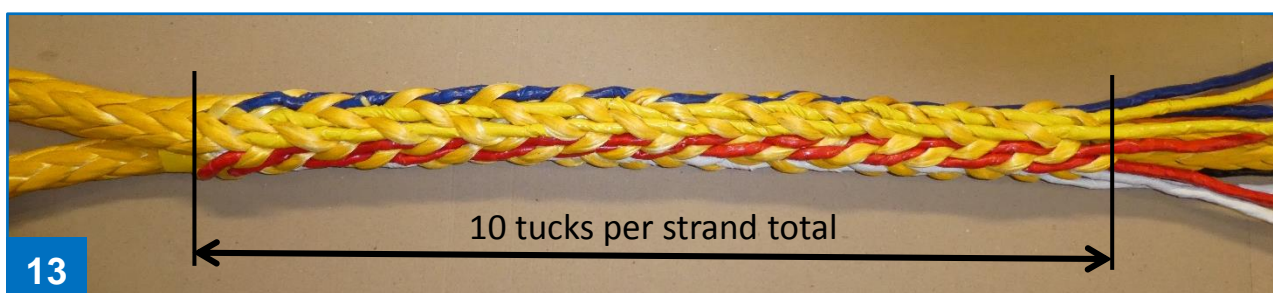


### Step 4: Tucking the splice

- Now all strand pairs are in starting position.
- Pick up a strand pair and continue tucking this under one, over one strand of the rope construction for another 3 tucks.
- Do the same for all 6 strand pairs.



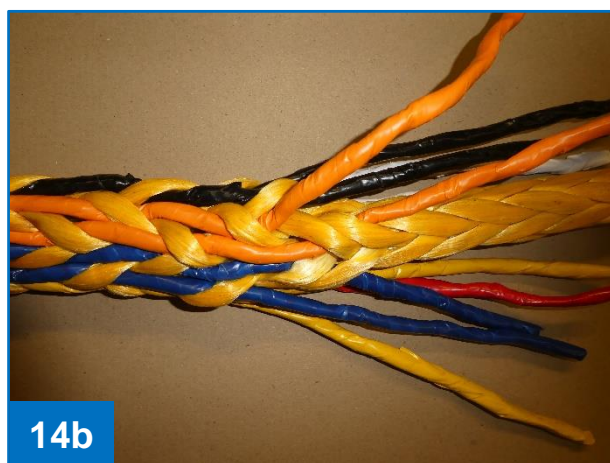
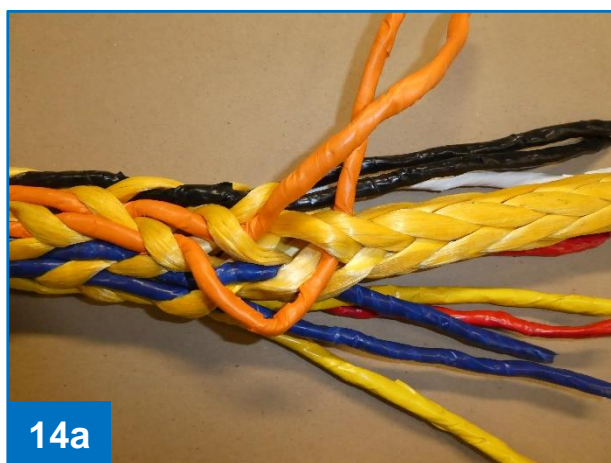
- After having made 4 tucks for all strands, continue tucking this under one, over one strand of the rope construction for another 6 tucks, ending up with 10 tucks totally for each strand.



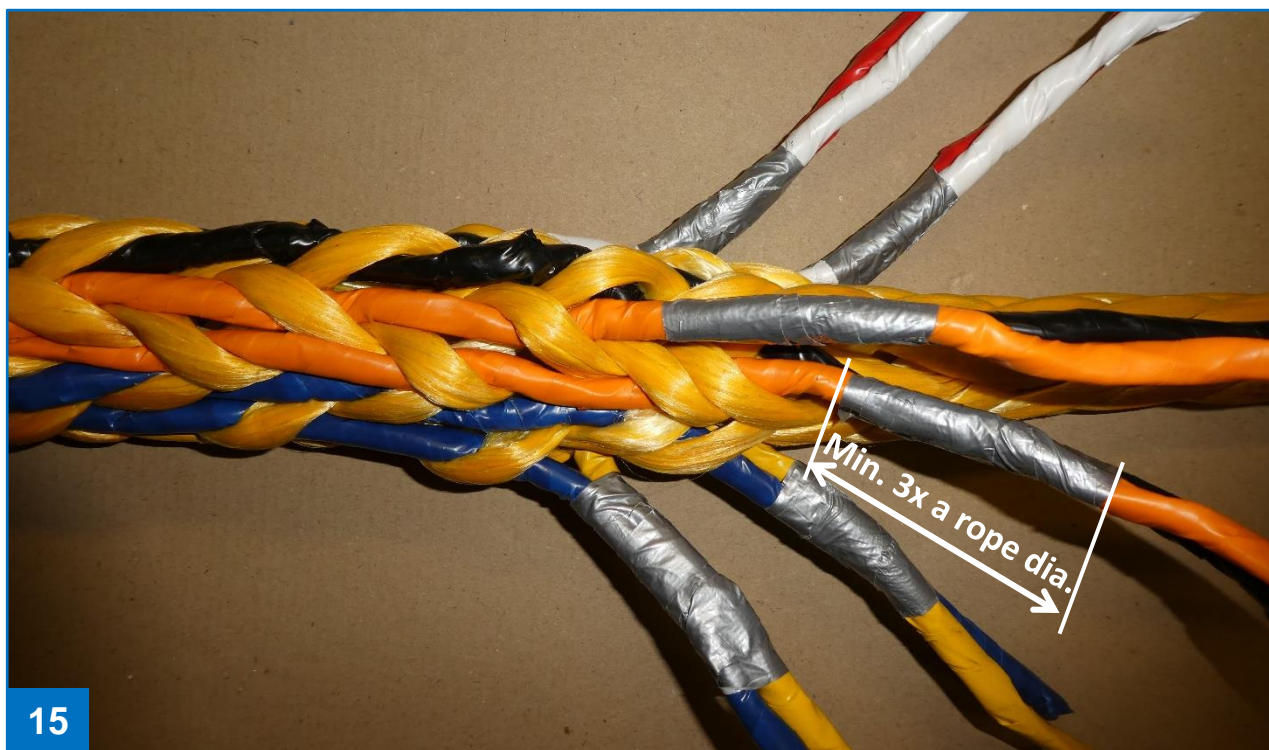
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### Step 5: Tapering and finishing the splice

- From all strand pairs, take one strand and tuck this over one under two, this in order to create an tapered end.
- When done correctly, a left handed and right handed strand will end up together.



- Tape of the end of the new strand pairs made, over min. 3x a rope diameter in length.





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- Cut of excessive splice tail length and your splice is now completed!



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