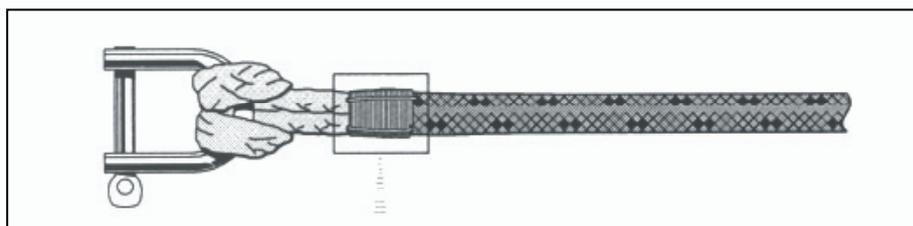


## HMPE eye-splice on lines with cover

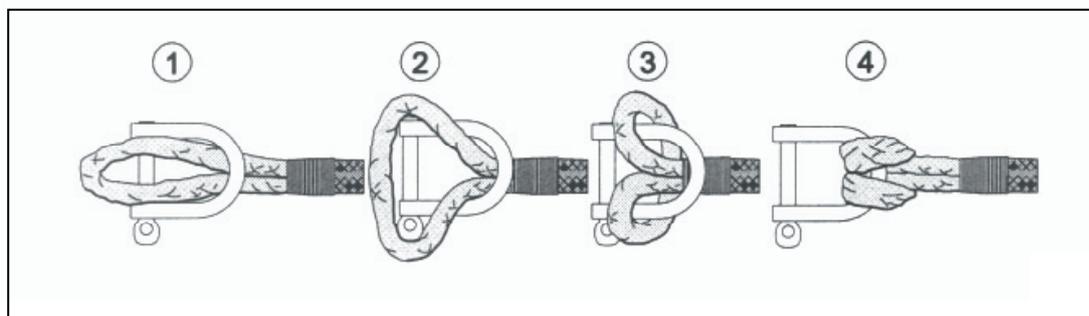
**Introduction:** This splice is for HMPE-lines only (Dyneema, spectra, etc.) with a braided core. The stiffness of the braided core determines how much load the splice can take, i.e. stiffer core makes a stronger splice.

The splice is based on two tucks that lock mechanically and one tuck that locks by friction. Even the loop around a shackle is part of locking. **Note:** This splice must only be used as shown in pic 1.



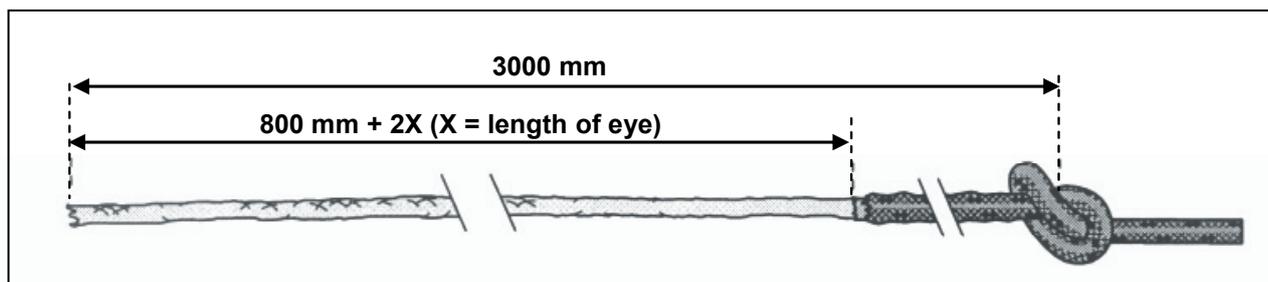
Pic 1

**Design:** Determine how large the eye should be. As little as possible of the core should be visible when the splice is looped around a shackle, see pic 2. After a few trial splices, the size of the eye can be determined easily.

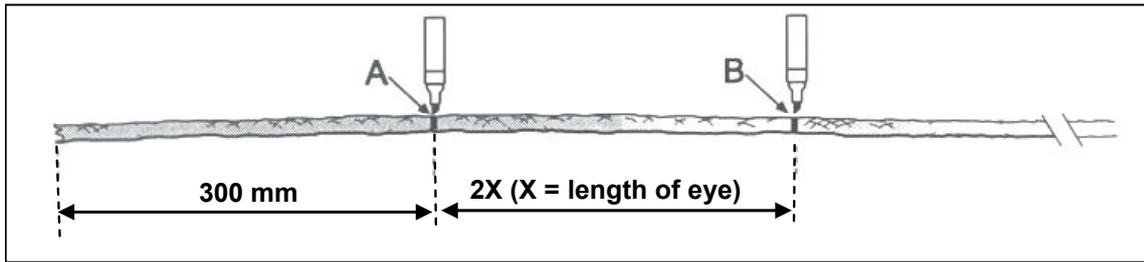


Pic 2

Pull back cover approximately 3000 mm. Look the cover with a knot. **Note:** Only the outer cover! If you have a “sock”, it should be cut as in pic 3. before it and outer cover are pulled back. Mark A and B as in pic 4.

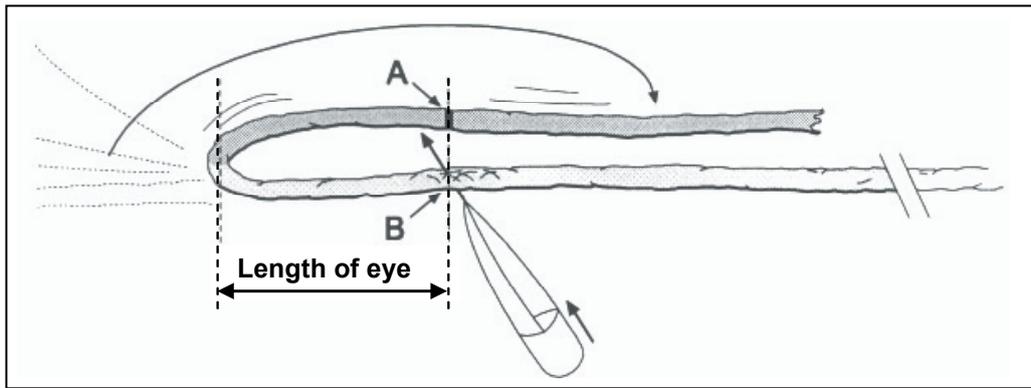


Pic 3

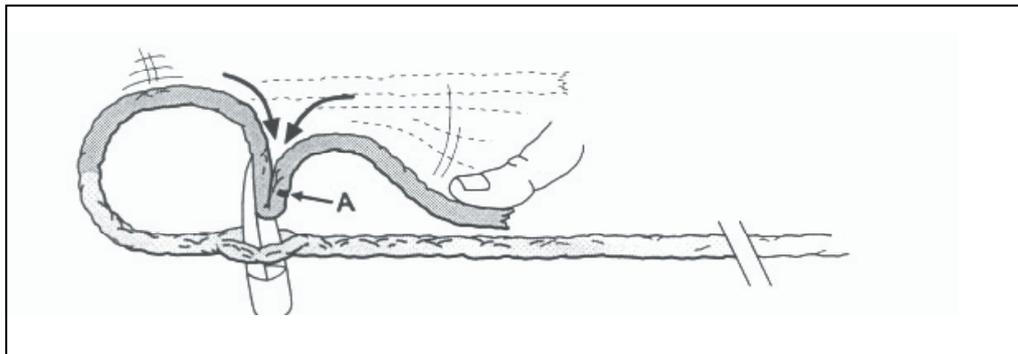


Pic 4

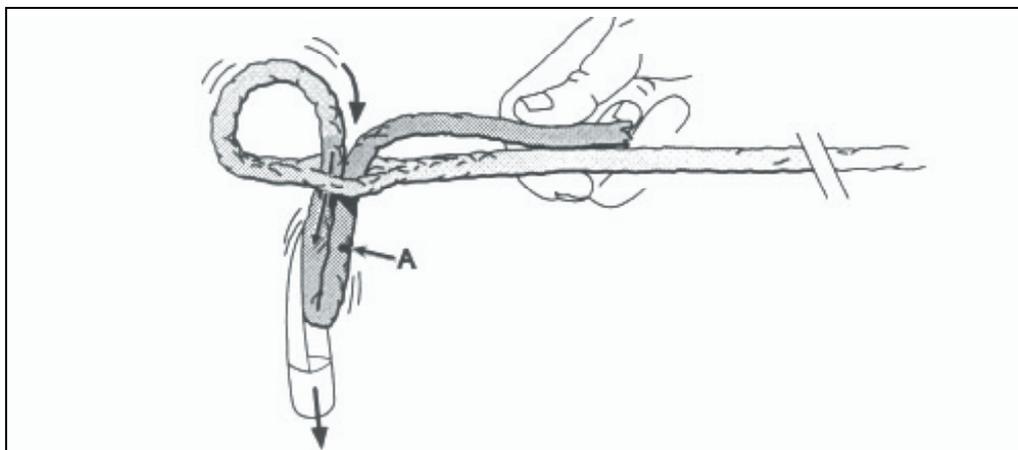
Fold the line, and make a tuck at B. Follow the diagrams to finish the first insert.



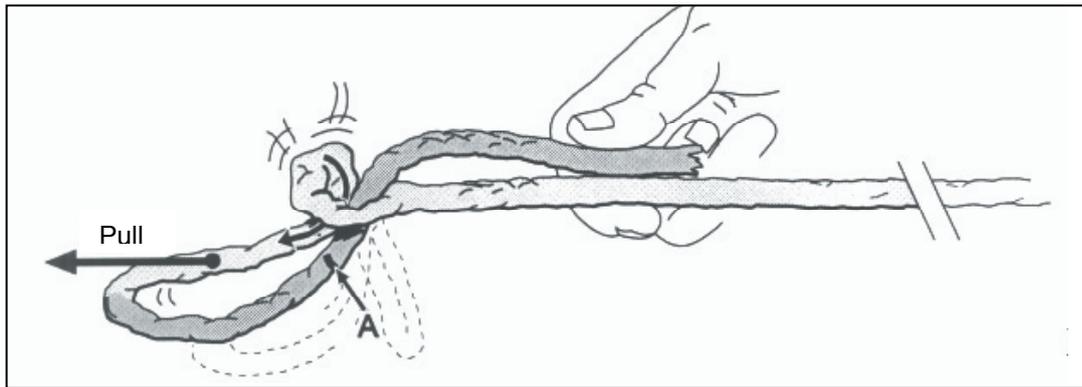
Pic 5



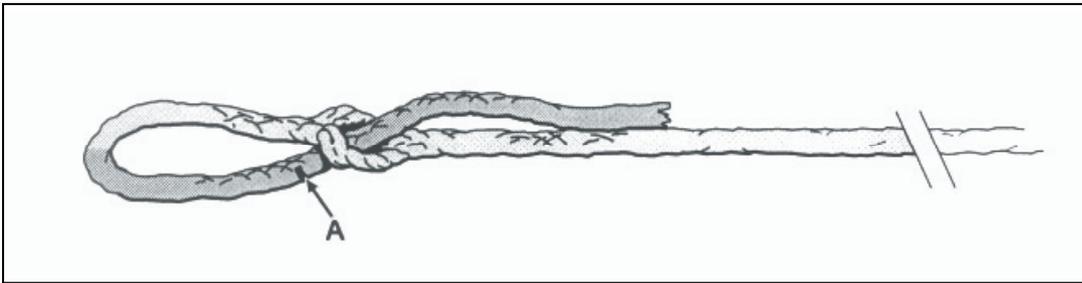
Pic 6



Pic 7

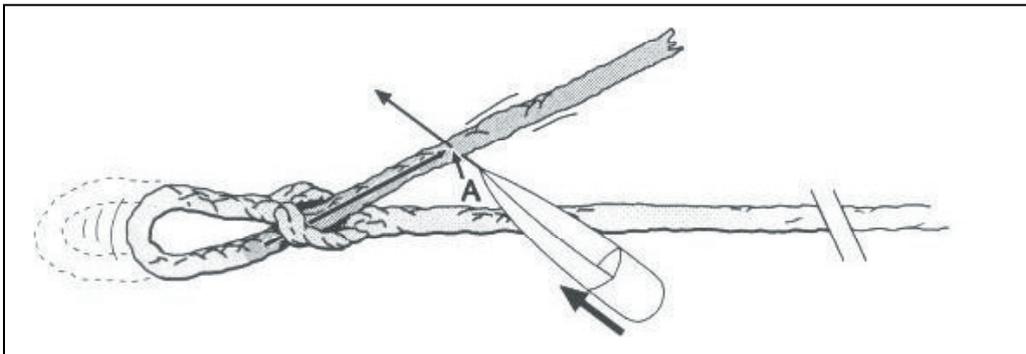


Pic 8

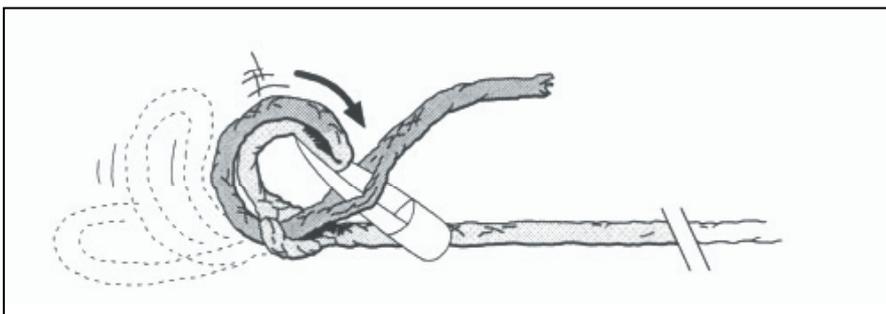


Pic 9

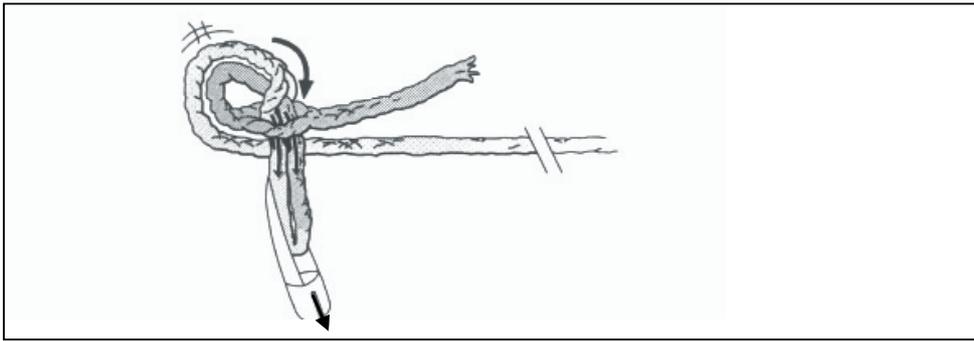
Pull the end back through B, and make second tuck at A, see pic 10. Divide the line in half. Follow pic 11 - 16 to complete the second tuck. Notice how the splice locks itself in pic 16. To avoid twisted strands of fiber in the completed splice, the core has to be pulled back through itself, as pic 15. For lines with stiff cores, the splice is now technically completed but a third tuck is recommended.



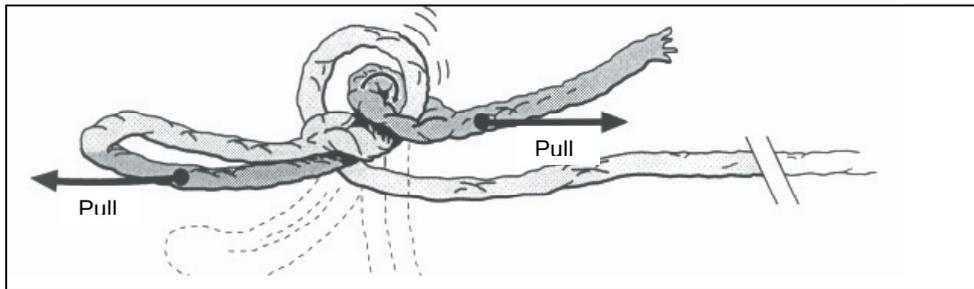
Pic 10



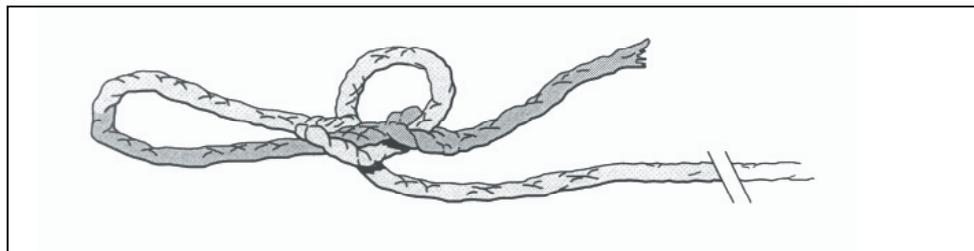
Pic 11



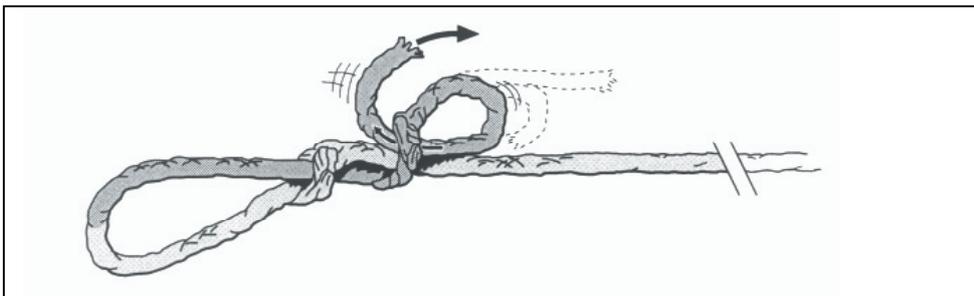
Pic 12



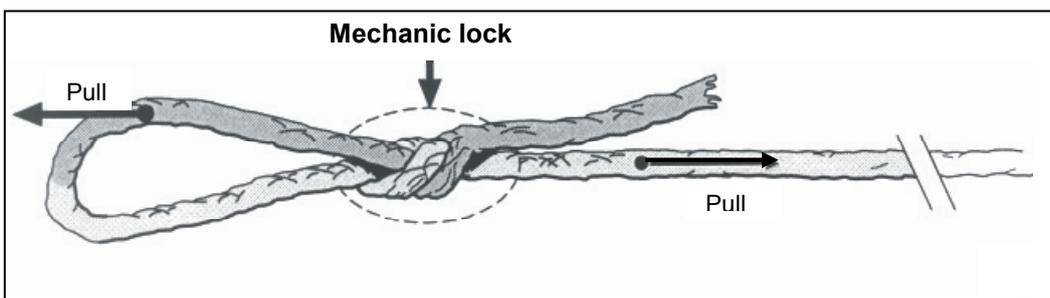
Pic 13



Pic 14

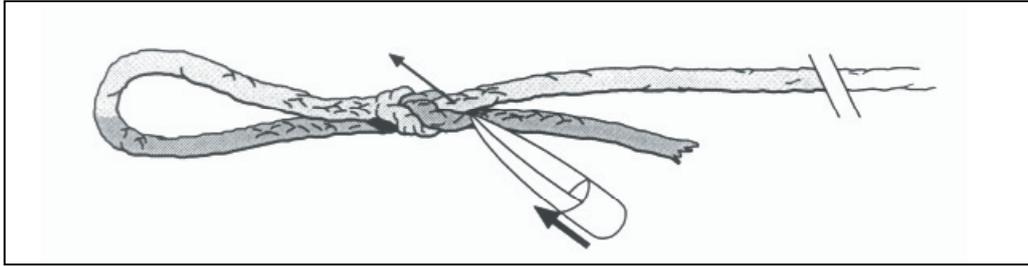


Pic 15

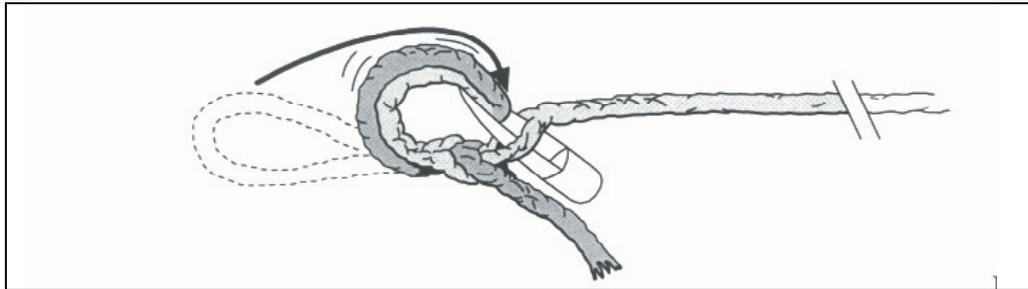


Pic 16

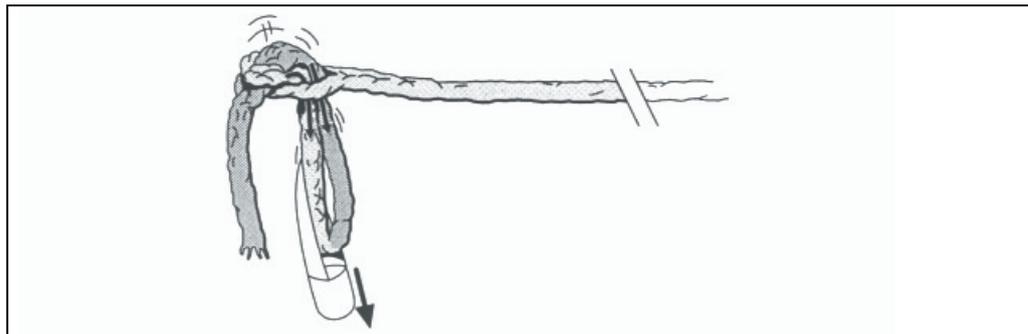
Make the third tuck just behind the “mechanic lock” that tucks # 1 and 2 made, see pic 17.  
Make the third tuck as in pic 18 - 21.



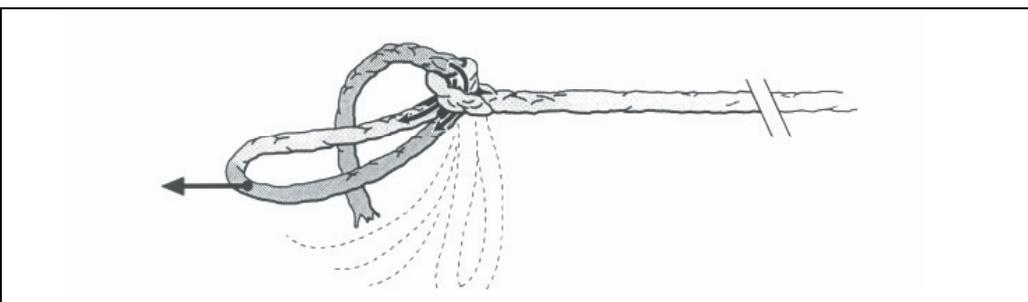
Pic 17



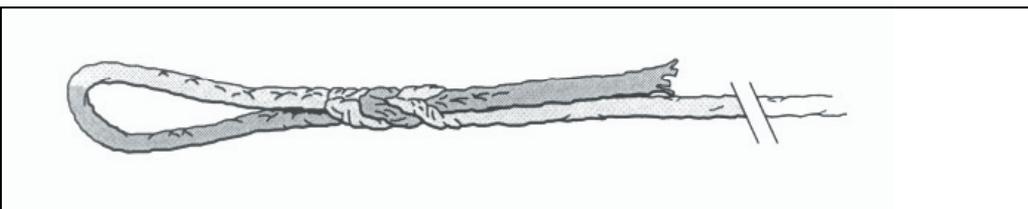
Pic 18



Pic 19

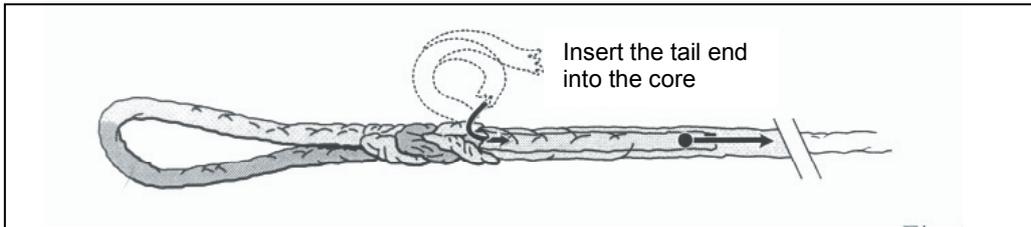


Pic 20



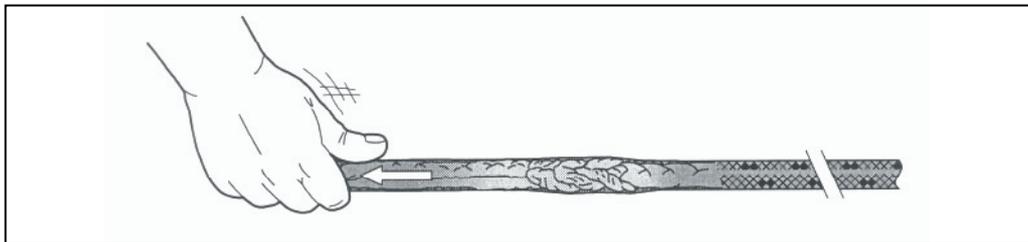
Pic 21

To complete the core splice, tuck the tail end into the core as in pic 22.

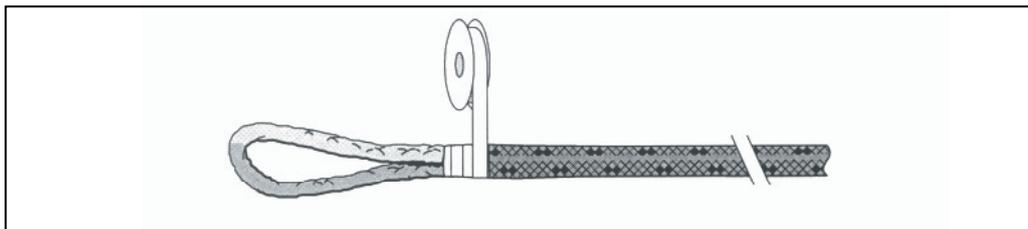


Pic 22

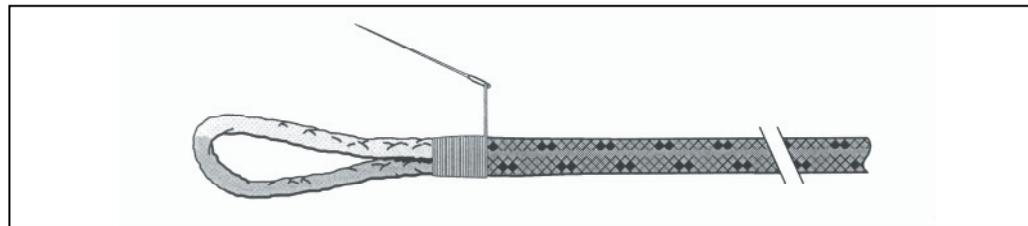
Pull back the “sock” and cover over the splice. Tape over the cover as in pic 24 and cut off excess cover beyond the tape. The tape should be approximately 10 mm wide. Make a twine whipping on top of tape, approximately 15 mm wide, see pic 25. Finish off by dipping the splice in wax.



Pic 23

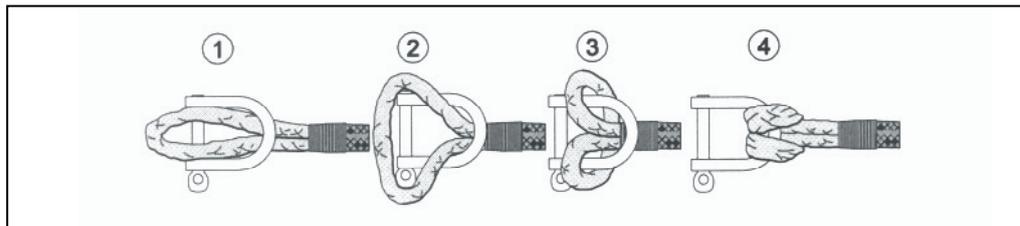


Pic 24



Pic 25

Fit to shackle as in pic 26. **Note:** This splice must only be used in the way shown.



Pic 26