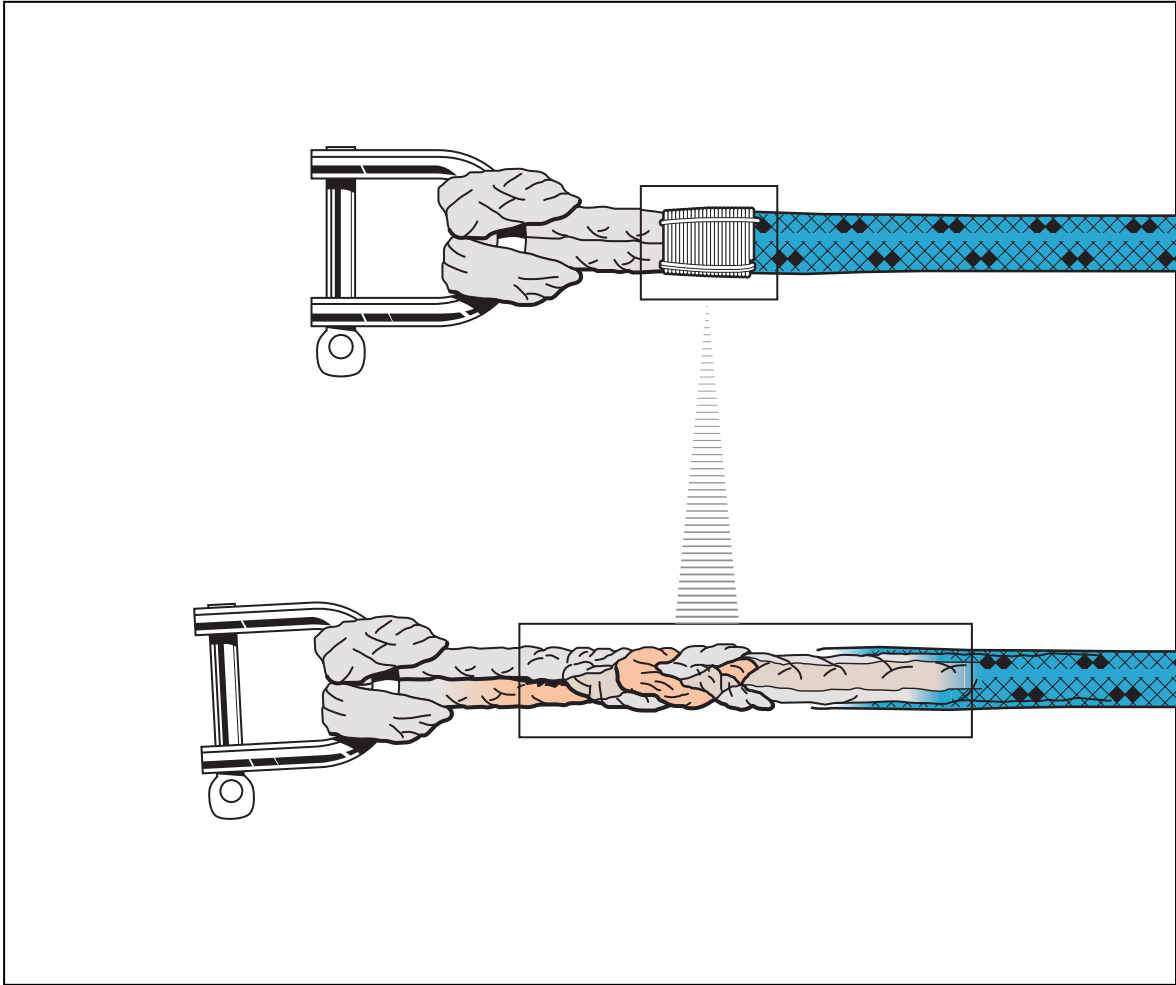


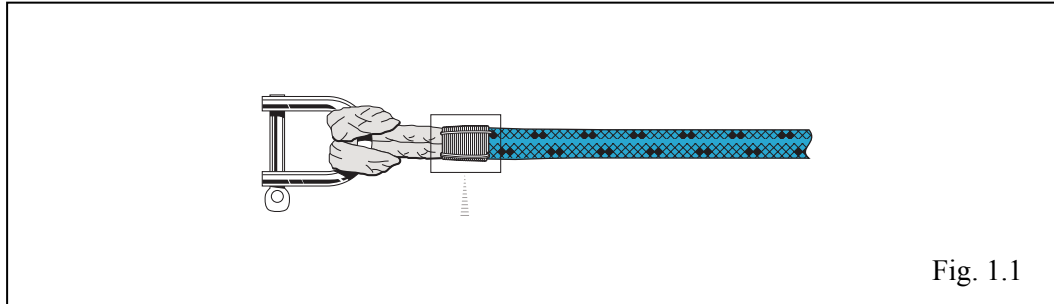
# Instructions for HMPE eye-splice on lines with cover



# 1 Introduction

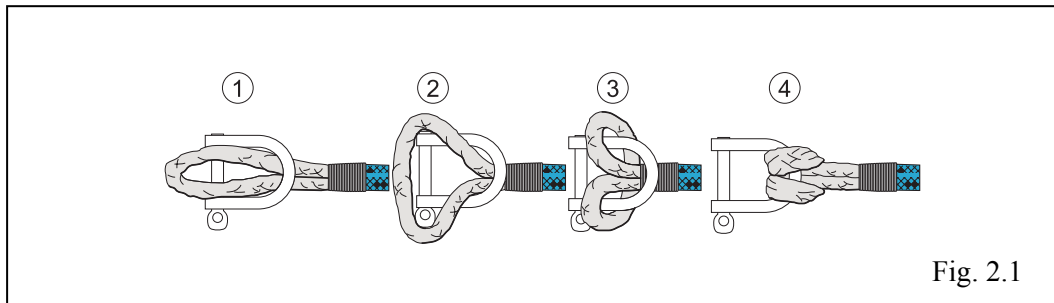
This splice is for HMPE-lines only (Dyneema, spectra, etc.) with a braided core. The stiffness of the braided core determines how much load the splice can take, i.e. stiffer core makes a stronger splice.

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 the locking. **NOTE:** This splice must only be used as shown in Fig.1.1.

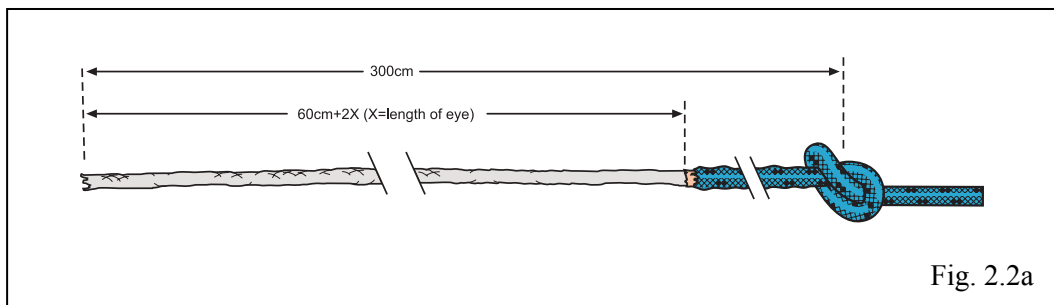


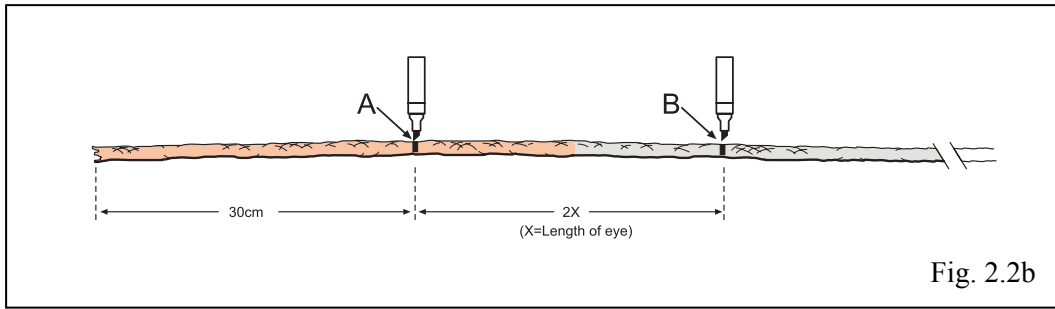
# 2 Design

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 Fig. 2.1. After a few trial splices, the size of the eye can be determined easily.

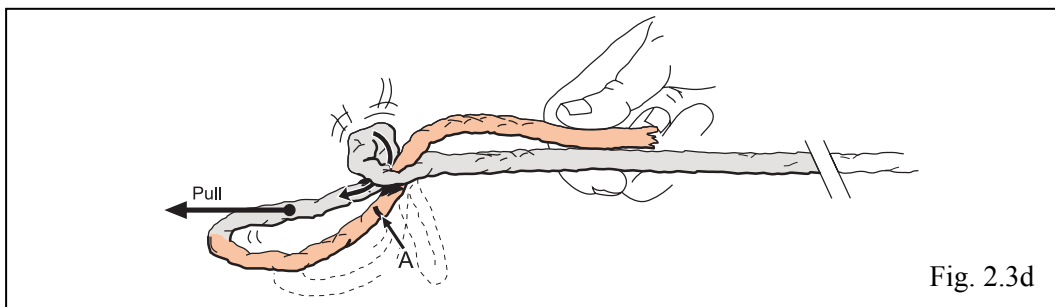
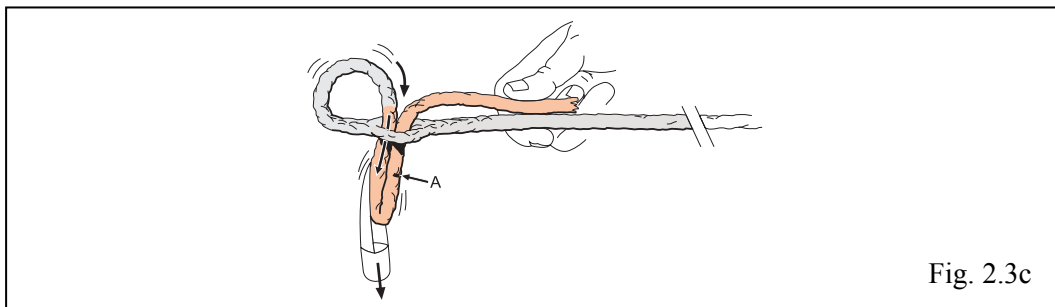
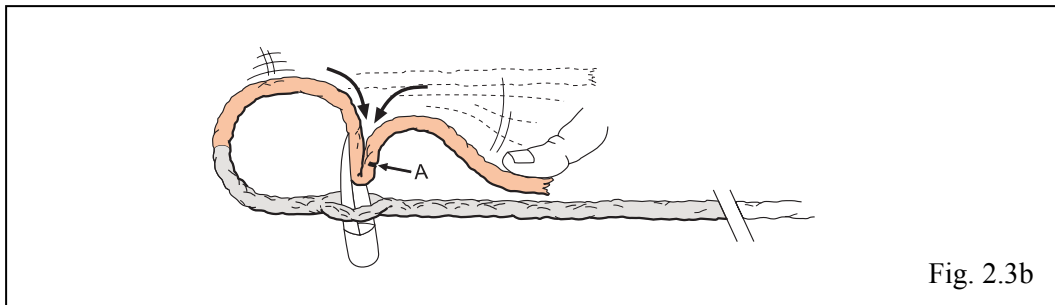
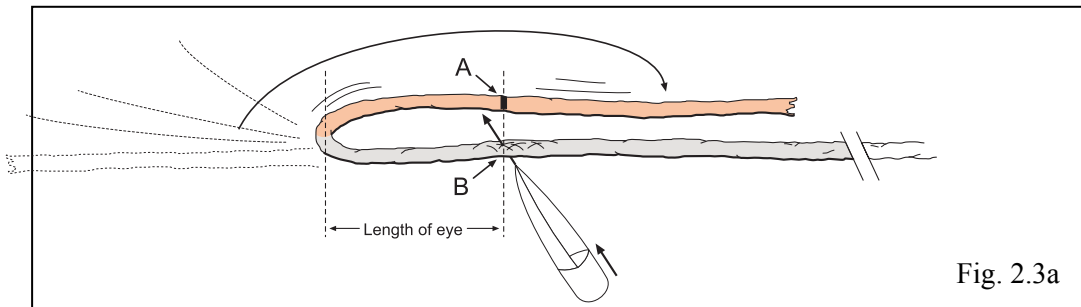


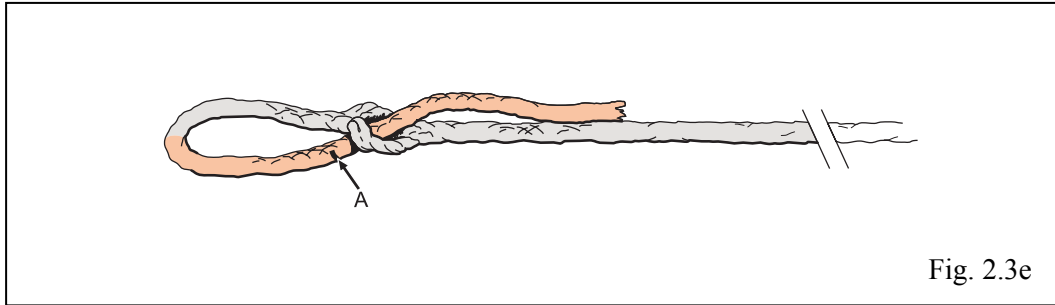
Pull back cover approximately 3 meters. Lock the cover with a knot. **NOTE!** Only the outer cover! If you have a "sock", it should be cut as in Fig.2.2a before it and the outer cover are pulled back. Mark A and B as in Fig.2.2b.



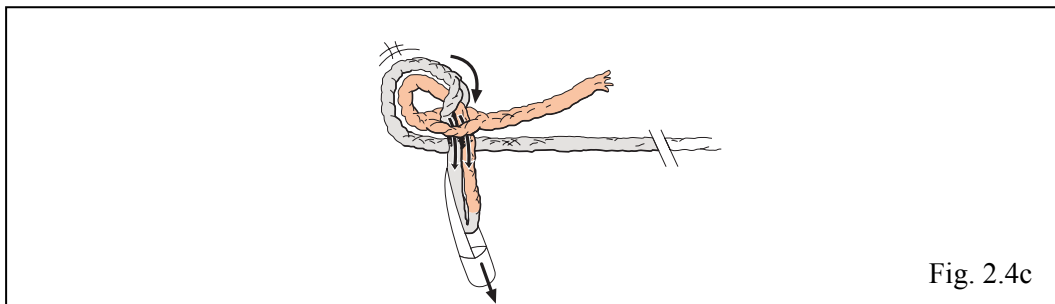
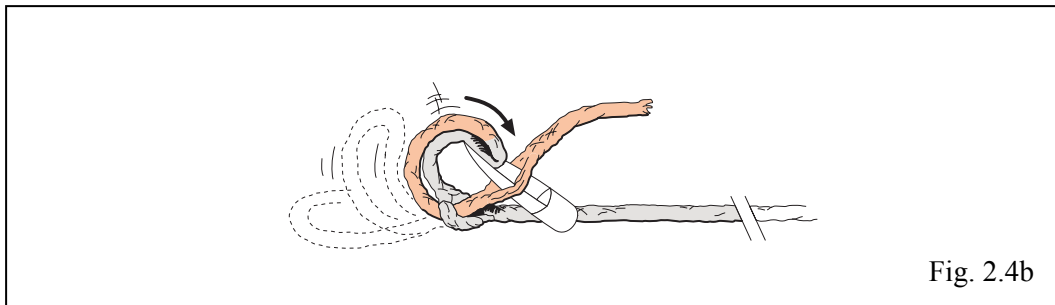
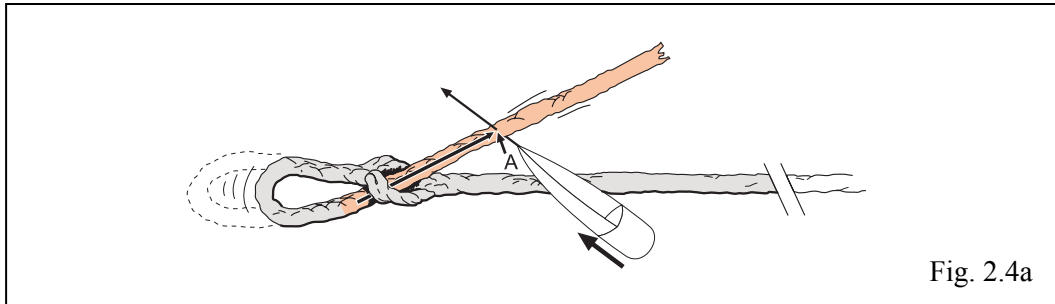


Fold the line, and make a tuck at B. Follow the diagrams to finish the first insert.





Pull the end back through B, and make second tuck at A, see Fig 2.4a. Divide the line in half. Follow Figs. 2.4b-g to complete the second tuck. Notice how the splice locks itself in Fig. 2.4g. To avoid twisted strands of fiber in the completed splice, the core has to be pulled back through itself, as Fig. 2.4f. For lines with stiff cores, the splice is now technically completed but a third tuck is recommended.



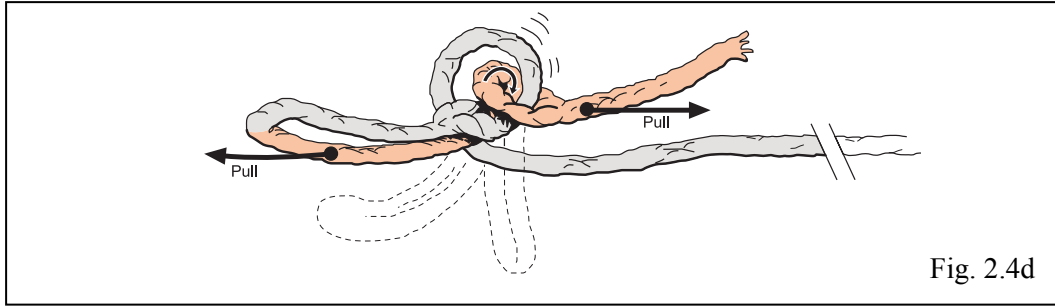


Fig. 2.4d

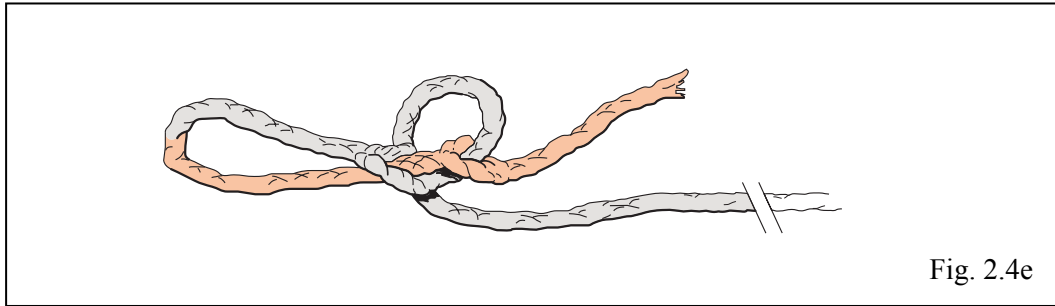


Fig. 2.4e

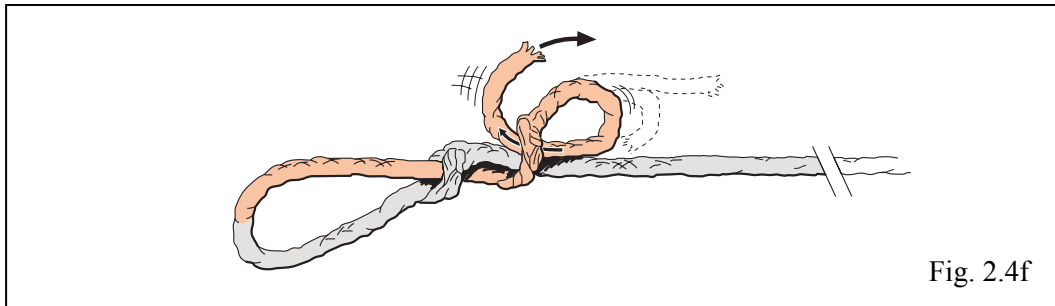


Fig. 2.4f

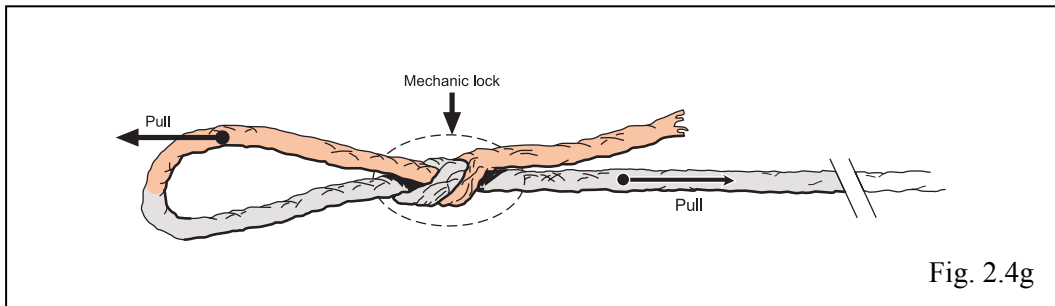


Fig. 2.4g

Make a third tuck just behind the "mechanic lock" that tucks #1 and 2 made, see Fig. 2.5a. Make the third tuck as in Fig 2.5b-e.

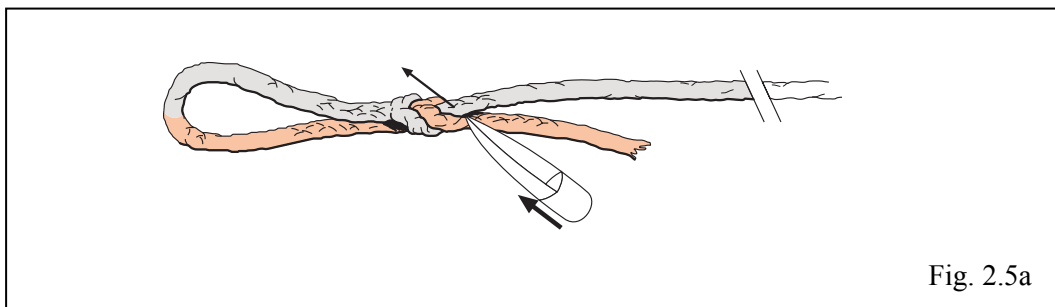
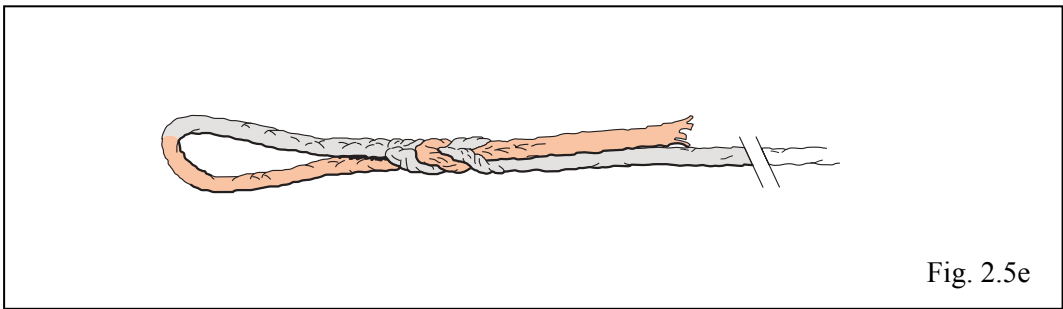
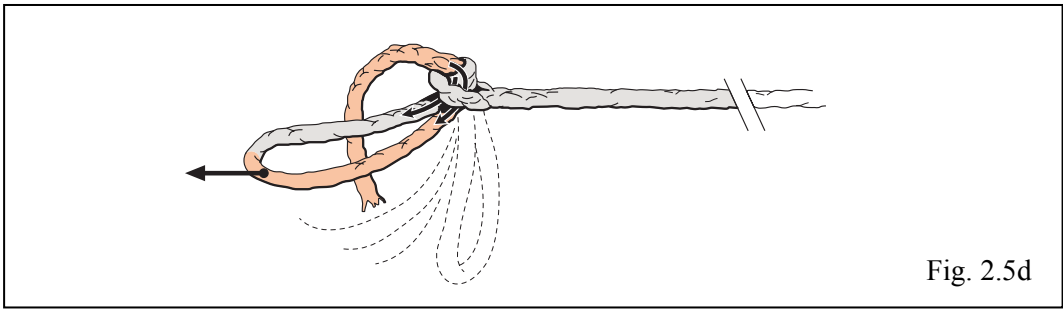
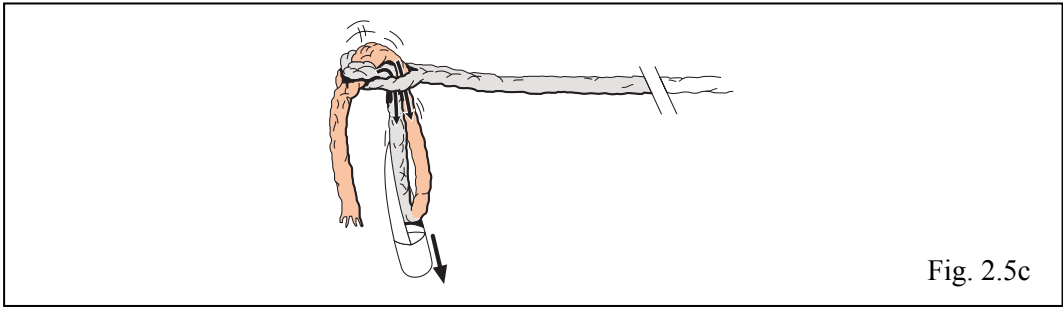
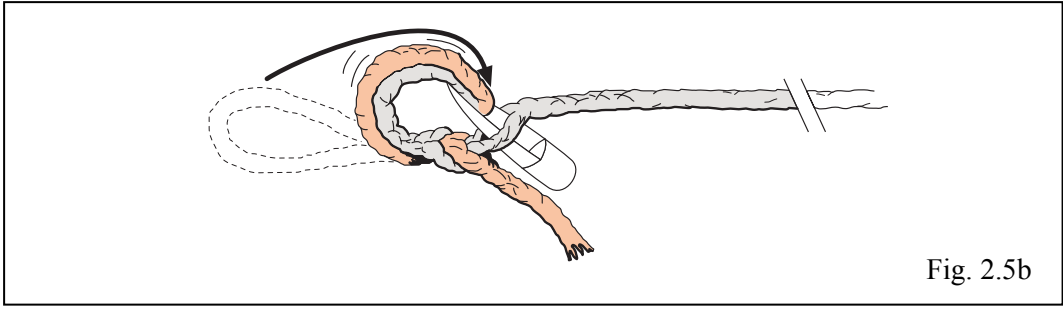
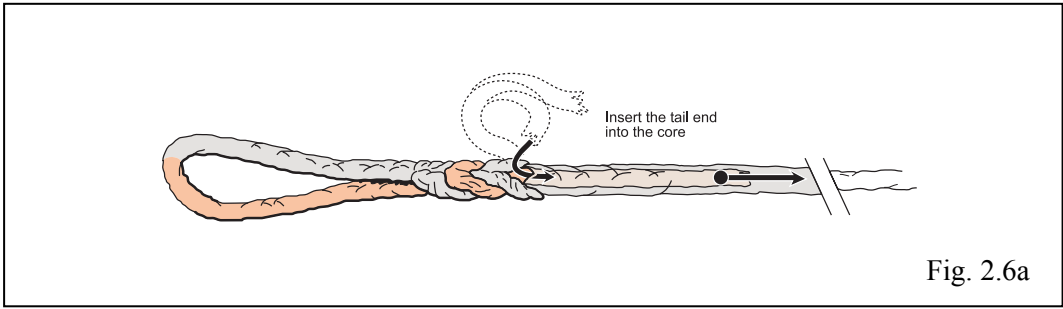


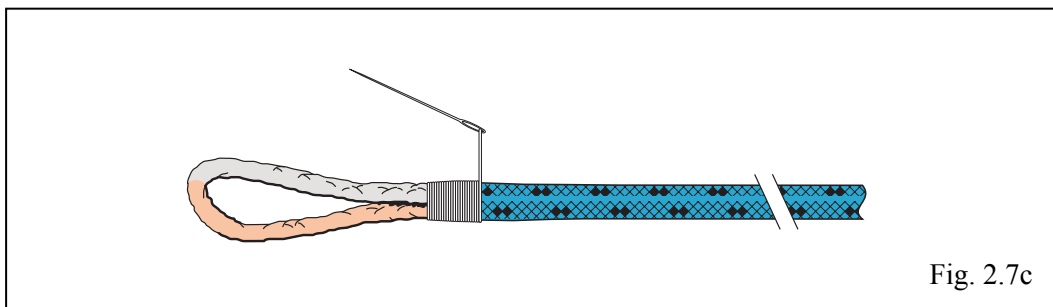
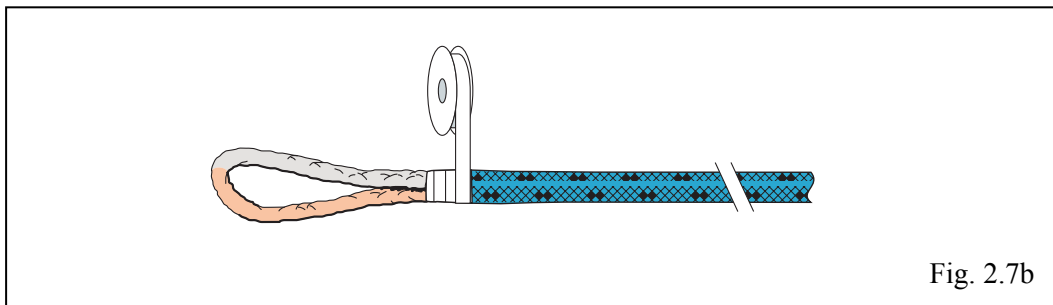
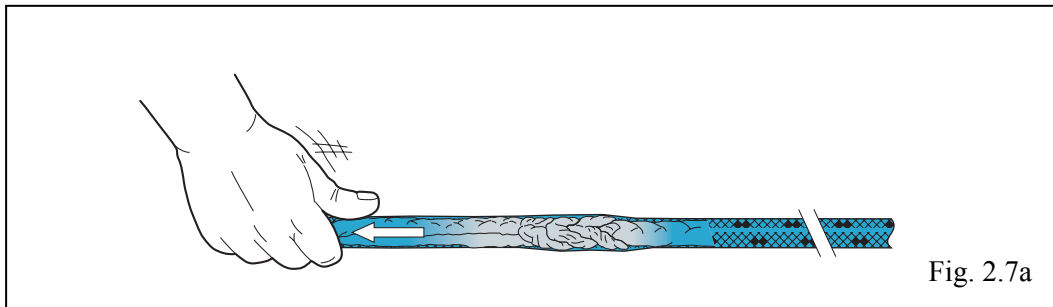
Fig. 2.5a



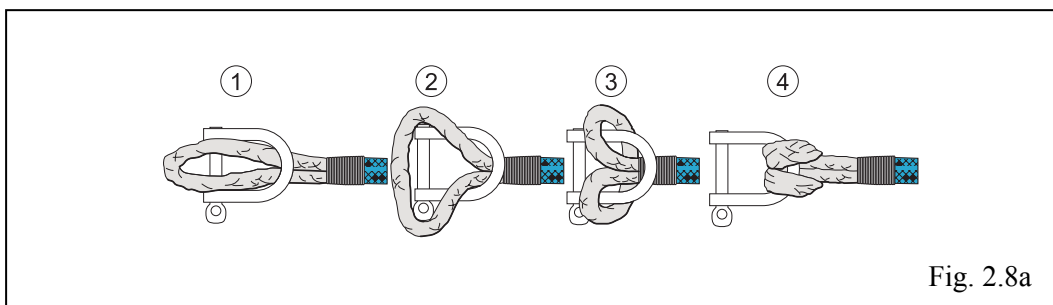
To complete the core splice, tuck the tail end into the core as in Fig 2.6.a



Pull back the "sock" and cover over the splice. Tape over the cover as in Fig. 2.7b 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 15mm wide, see Fig 2.7c. Finish off by dipping the splice in wax, part # 312-528



Fit to a shackle as in Fig. 2.8a. **Note:** This splice must only be used in the way shown.



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