

Dyneema soft shackle with diamond knot

Cutting guide table

Dyneema size	Shackle size (cm)	Diamond knot tail (cm)	Minimum length (cm)
3mm	20	30	100
4mm	20	30	100
5mm	20	40	120
6mm	20	40	120
8mm	20	45	130
10mm	20	45	130

The following images and dimensions are for 6mm Dyneema cord.

Start by cutting 120cm of line and tape the ends. Mark the middle of the cord.



Make a mark 20cm from the middle mark (this is the size of the splice). Insert the splicer or wire into the cord at this second mark and out at the middle mark.



Put the long end into the wire loop and start to pull it through.



Tools:- Tape, Sharp scissors, D Splicer or wire.

Put a fid or spacer in the loop to prevent it closing and pull it tight.



Milk the outer strands and make a mark where the inner core exits.



Make a hole at this mark and pull the outer core through it.



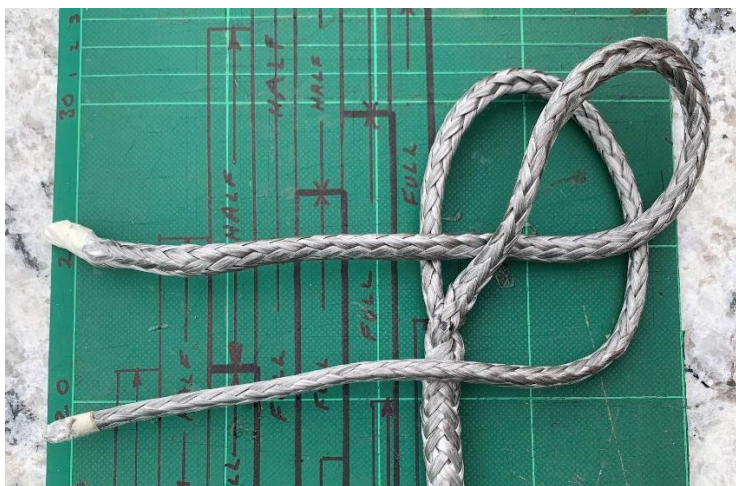
The splice is now locked.

Next step is to tie the soft shackle or diamond knot. (This can be thought of as a carrick bend with the ends passed up through the middle). A button knot could also be used but is more complex.

Make a clockwise loop in one strand by passing the free end underneath.



Bring the other cord towards you under the loop.



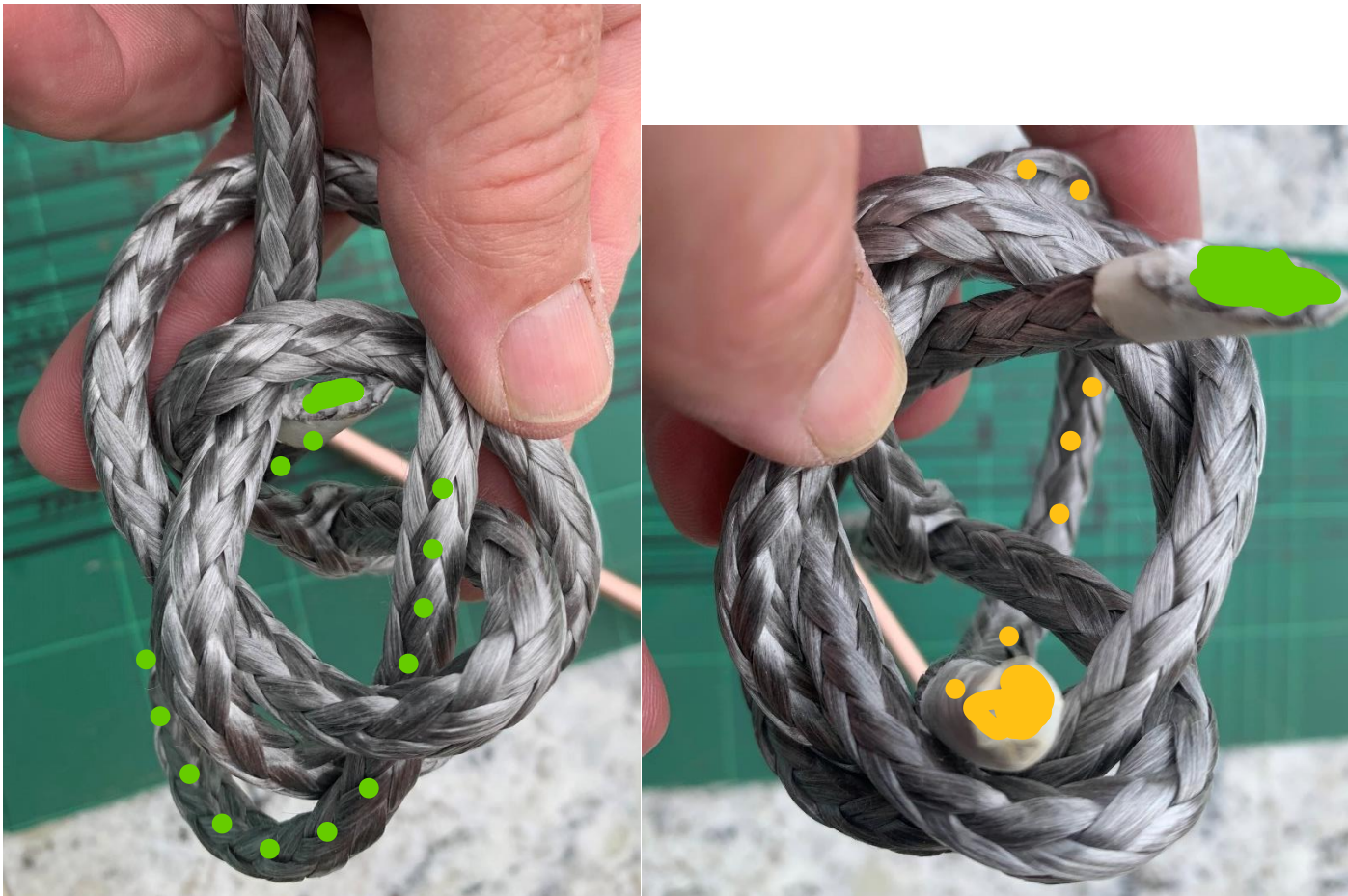
Continue over the standing part, under the free end, over the loop, under itself and over the loop. This forms the carrick bend.



Pick the knot up by with the splice between your fingers. Dress the knot to show the hole in the middle of the carrick bend.



Take one loose end, continue in a clockwise direction and pass it round the first standing cord and up through the middle of the knot. Repeat for the second loose end.

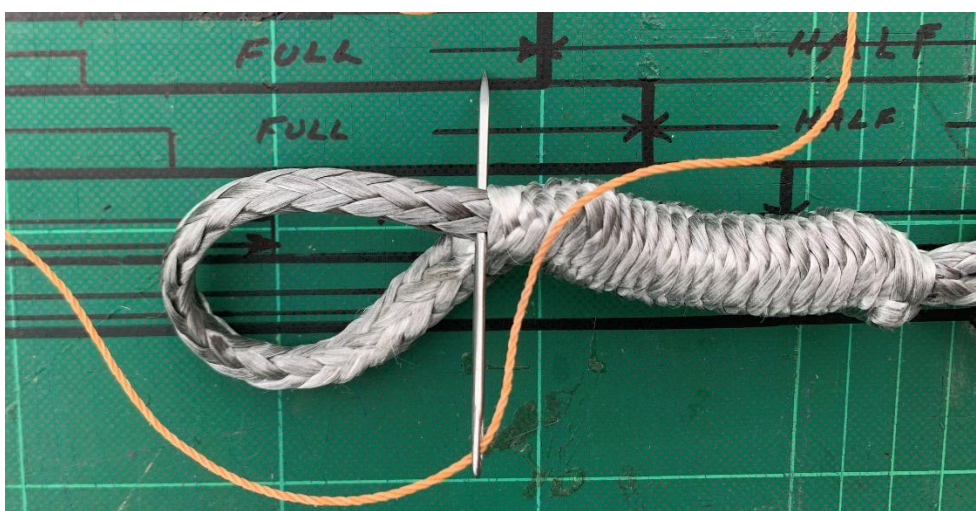


Dress the knot close to the splice and tighten as much as possible. Spike, pliers, ratchet strap or winch may be used.





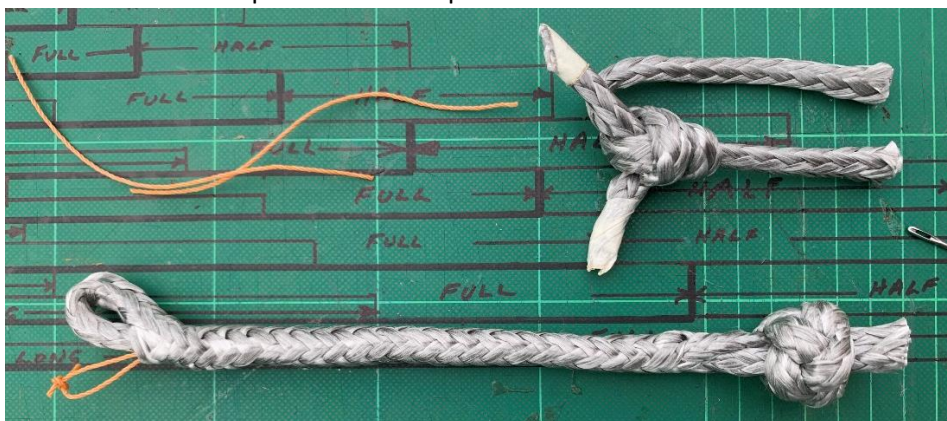
To make the shackle easier to reuse a light line may be added as a quick release. Milk the cover back and pass a light line through the core. You may recognise this as crabbing line!



Milk the cover back and tie the ends of the light line into a loop.



Trim the ends. The splice is now complete.



Tools:- Tape, Sharp scissors, D Splicer or wire.