

Rope type: Liros braid on braid, small gear 8mm, medium and large gear 10mm

Hollow Fid: length for small 170mm length for medium and large 230mm, if you cannot obtain hollow fids, a Marlow ropes splicing needle can be used to pull rope through instead of pushing

1. 2.5 m from end of rope form stopper hitch (not over hand knot as it has to be untied and not trapped in loop)
2. Mark 1 fid length as put single large mark (we use highlighter pens as they don't mark rope permanently)
3. Insert Swedish fid and extract inner core
4. Inner core extracted, insure to pull equally from both sides to keep extraction point in centre
5. Repeat and then mark 40mm on both cores from extraction point towards gear (not rope tails) this forms allowance to form splice.
6. Pull the inner cores out
7. Mark one and a half fids from original mark and draw two highlighter lines at this point
8. On outer braid tail, at 30mm from point where inner core comes out lift two strands with fid, cut and extract from loose end of rope, work round rope leave the next pair of strands and cut the following pair and extract working around the rope you should extract 5 double strands of rope.
9. Repeat for the other end of rope and you will end up as this picture shows; with rope tails tapered
10. On inner core insert fid at mark one, push through the centre of the core and out at mark two
11. Insert opposite end of rope outer section into fid
12. and push through
13. Pull outer section through core until core bunches against the extraction point, do not pull over the extraction point
14. Hold at grip point and tease open all strands and divide roughly into three equal groups
15. First of the three equal parts is to be cut at the grip point
16. Second of the three equal part is be folded in half from the grip point and then cut at fold
17. The third part is not cut. This picture shows the first cut at grip point, second half way up and the third part uncut
18. Grip at extraction point and pull bunched core over the tail to close up
19. Tape round both pieces of rope at extraction point to keep things tidy
20. Repeat process 10-22 on the other end of rope
21. At a distance of 150mm form extraction point lift two strands and cut. And pull out from tail end of rope, leave the next two strand and cut the following two strands, you will remove two double strands in total. Repeat for the other end
22. Transfer the tape to core to prevent unravelling on both ropes
23. Reach up to stopper knot and milk outer covers back towards join until join is almost complete.
24. Milk each strand individually till splice is joined as tightly as possible
25. Cut off both ends leaving approximately 50mm of tail.
26. Carefully tease out bunched core strands as in this picture to relieve bunching at splice
27. Pull hard from stopper knott to set splice at tightly as possible
28. Working a few strand at a time pull slightly from bunch and trim off until all strand are removed and splice looks like the next picture
29. Pull the rope again to set the splice tightly
30. At approximately 80mm from both sides of slice make a stopper hitch
31. Pull from this hitch to bed splice, you will feel splice move slightly then pull from other stopper knot
32. The final splice will look like this

33. Thread a whipping needle with 120mm of fine whipping twine and double up, push through at intersection of splice. Pull through to leave two inch tail, pass needle through four times back and forth through rope. All stitches must be within the distance of 5mm
34. Whip around the rope trapping tail as shown, pull tightly, continue whipping back over tail for 5mm
35. Pass needle through rope at the end of whipping at a 45 degree angle
36. Continue passing needle back and forth through rope climbing about 30mm with each stitch about 200mm from splice cut whipping twine. Also trim off excess twine at splice
37. Pull rope through gear until splice reaches drum, pull back and forth through drum about ten times, this will help to the splice to bed into place.