

Knots & Splices T5

<https://acbo.org.uk/wp-content/uploads/knots-and-splices-T5.pdf>

The sailor, from the very nature of his craft, has a dependence upon rope and a consequent familiarity with knots that is demanded of no other workman. It follows that most important knots owe both their origin and their names to the requirements of a ship at sea. So diverse are these requirements that the number of knots devised by the sailor is probably ten times greater than the sum of all other handicrafts combined. Nor is this surprising if we consider that on a full-rigged ship, in everyday use, are several miles of rigging, and an able seaman, of necessity, is acquainted with every inch of this extent. Ashley's book of knots 1944.

Useful resources

Apps: - (available in both iOS & Android) Knots 3D

Splicing

Splicing modern ropes - Jan-Willemstad Polman. ISBN-978-1-3994-1726-6

Double braid splicing & soft shackles <https://acbo.org.uk/boat-work/>

For the enthusiast/geek, the definitive work is Clifford Ashley's book of knots.
<https://archive.org/details/TheAshleyBookOfKnots/page/n11/mode/2up>

For practical tasks. The Complete Riggers Apprentice, Brion Toss ISBN-978-0071849784

Rope/FID Sizes in Metric (Rounded to nearest **0.5 cm**)

Rope Diam. (mm)	Full Fid (cm)	Short Fid (cm)	Long Fid (cm)	Half fid (cm)
5	10.5	3.5	7	5.5
6	12.5	4	8.5	6.5
8	17	5.5	11	8.5
10	21	7	14	11.5
12	25	8.5	17	12.5
13	27	9	18	13.5
14	29.5	10	20	15
16	33.5	11	22.5	17

Terminology

Working end.

Standing part

Dressing

Whipping

Lashing

Palm

Stopper

Hitch

Bend

Bight

Turn

Knot collectives

Stoppers

Overhand

Figure of eight

Figure of eight followed

Oystermen's



Bends

Reef (square)

Sheet (double)

There are two forms of this bend, when both working ends are on the same side it seems to resist snatch loads better,

Bowline



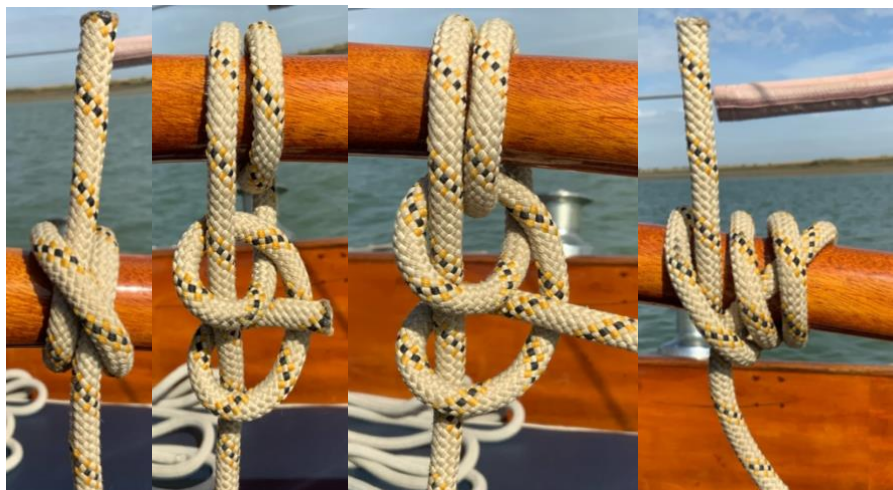
Hitches

Clove

Round turn, two half hitches

Anchor

Rolling



Undoing without a knife

Rolling?

Spike?



Splicing

Tools

Many of these can be made by adapting common items such as knitting needles.



Whipping

Yale Whiplock

<https://youtu.be/ZbYWbZAPwxk?is=RKDGh9jSOWUpNF-M>

Three strand eye splice

https://www.neropes.com/wp-content/uploads/2024/10/17-07-27_3-Strand-Rope-To-Splice_Standard-and-Tapered.pdf

Double Braid eye splice

<https://acbo.org.uk/wp-content/uploads/Splicing-double-braid-images.pdf>

New England ropes splicing guide

<https://youtu.be/UghIS9xdiDw?is=1CYK3hOCseqp6sb->

Dynema eye splice

Two methods, with or without a free standing end.

Bottom up boats

<https://youtu.be/jTimJX9XmXw?is=zNawsChZaQsj-wbo>

New England ropes splicing guides

<https://youtu.be/QZM-0HVic0w?is=9nGLIAJv0VtHZ9VW>

<https://youtu.be/fIR5JdQ7TEo?is=Ato-vPgYJmja8lck>

Advanced ideas

Continuous Jib sheet



Tie an overhand (thumb) knot around the opposing sheet. Dress the bends before pulling together.

Carrick bend



Used to join two lines of equal size and type, it is also the starting point for a diamond knot in a simple soft shackle. Note the final position of the working ends.

Alpine butterfly knot



Used in climbing to secure to a harness, easy to form a temporary loop in the middle of a line. Basis of the truckers hitch to create a two part purchase in a line.

Soft shackles (Two methods)

<https://acbo.org.uk/wp-content/uploads/2023/09/Softshacklebeginner.pdf>
<https://acbo.org.uk/wp-content/uploads/2023/09/dyneemasoftshackle.pdf>

Extras

Choosing ropes

Stretch UV construction etc.

Coiling

Three strand

Braided

Storing coils & Throwing