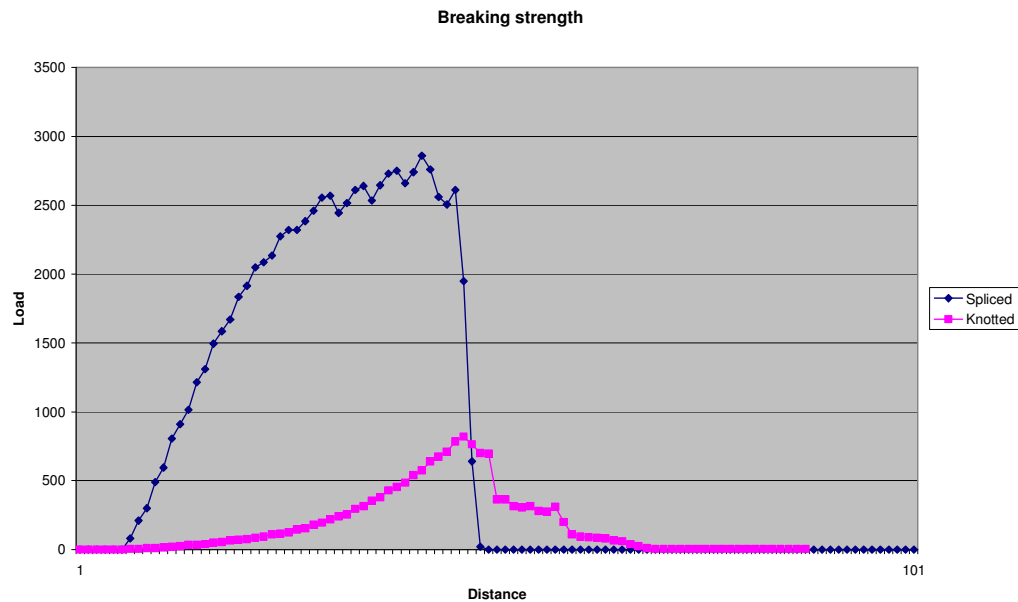


## The importance of splicing rather than a landlubbers knot.

Knots lower the strength of all ropes by at least 50%. This is because knots have a very high centre of curvature when the rope wraps around the same rope in a knot.

Graph of a Dyneema splice verse a Dyneema bowline



However different braided ropes made out of different materials should use the most appropriate splice for the application.

PES and PA double braids should be spliced using a standard PES splice where the outer cover is fed back down the braided centre.

This is not acceptable for UHMWPE, Dyneema fibre, Spectra, Vectran ropes or ropes that have a centre that carries most of the total load. (See splicing instruction )

Single braids in all materials are best to use a Brummel splice where the tail and the main rope are interlinked through each other to make a simple high strength splice.

The tail is then tucked into the centre to finish the splice.

Nautilus has the ability to carry out machine splicing when the rope is being made.

This can only be done at one end however a machine splice is particularly effective as both the centre and the outer can be fed back down the centre of the rope and tapered to make a very superior splice.