

# Introduction to Splicing

Matthew Eglin  
Hugh McGugan



# Agenda

- Introduction to Splicing
- Demos and hands-on
  - Double braid eye-splice
  - Dyneema soft shackle
- Big thanks to The Chandlery for providing tonight's rope



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# Why Splice?

- “That knot has held for years”
- Much higher strength – 100% of rope strength vs 30-50% for a knot
- Lighter – less line used
- Neater – be the cool boat

# Types of Rope

- 3 Strand
- Double Braid
- Core dependent Double Braid
- 12 Strand
- Each type of rope has its own set of splices

## 3 Strand

- Traditional ropes made from hemp, sisal, manilla
- Modern ropes made from nylon, polyester.
- Easy to splice
- Nylon makes good anchor rodes

# Double Braid

- “Yacht braid” made from Dacron/polyester, nylon also used.
- Strength relies on both the core and cover
- Used for most lines
- Available in low stretch

# Core Dependent Double Braid

- Similar construction to double braid but all the strength is in the core
- Dacron/polyester cover for abrasion and UV protection
- High modulus core loads before the cover
- Very low stretch, great for halyards
- Some can be cover stripped to reduce weight for spin sheets

# 12 Strand/Single Braid Rope

- Usually high modulus materials
- 12 Strand construction allows easy splicing
- Dyneema/Spectra 12 core has very high strength
- Used for applications needing low weight, high strength
- Standing rigging – Dux
- Soft shackles
- Backstay adjusters



# Single Braid Rope for Sheets

Mixed construction rope, spun polyester over a high strength fibre

- Yale Ph.D Racer and Cruiser
- New England Salsa and Bzzz
- Samson Control-DPX

Light, easy on the hands, hockle resistant and super easy to splice

These are sheets you are looking for...

# Tools

- Fids
  - Tubular – Selma and/or Samson
  - Swedish
  - Wire fids and Toss Wand
- Knife – Olfa
- Scissors
- Sharpie
- Tape
- Awl or small marlinspike

# Projects

- Sheets
- Control lines
- Docking, anchoring and drogues
- Halyards
- Backstay adjusters

# Tonight's Splices

- Double braid Eye Splice
  - Dock lines
  - Main sheets
  - Control lines
  - Halyards
- Soft Shackle
  - Great intro to high-tech 12 strand rope
  - Sheets
  - Halyards
  - Running repairs
- Two tables, Hugh and I will guide you
- Swap tables to do both splices