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New!

CYCLONE™ MOORING PENNANTS

New high tech pennants mean smaller diameter lines and better resistance to chaffing and heat build up.

Traditional mooring pennants have been made from nylon fibers. When nylon is put under load the material will stretch, giving it excellent shock absorbing abilities. Unfortunately, this ability to stretch causes friction where pennants are lead through a boat's chocks. This friction leads to heat buildup and chaffing and eventually can cause the pennant to break.

The answer to this problem is the new Cyclone™ Mooring Pennants which use two sections of very different line. Standard nylon double braid is used on the bottom standing section where the pennant attaches to the buoy. STS-12 SK-75 line is used on the top section where the pennants are lead through the chocks and around cleats. STS-12 SK-75 is a high tech line that is made with Dyneema fibers, resulting in extremely high tensile strength and an ultra low elongation properties.

A high tensile strength means smaller diameter lines can be used on the upper end of the pennant. This allows for a much easier fit on boats with smaller chocks and cleats. Ultra low elongation means that wear from heat buildup and chaffing is greatly reduced. Additionally, because the top and bottom sections are simply looped together through spliced eyes, damaged sections can be changed without replacing the entire pennant.

Please e-mail or call us with any questions you might have or to order a set for your mooring. Our website will be updated soon with additional information and pictures. We are always striving to offer our customers the best mooring products available. This type of pennant has been tested in many of the major Northeast mooring fields and is endorsed by New England Ropes, our rope supplier. All of our pennants are spliced in house and are assembled with components that are made in the USA.



An example of a similar setup used in Nantucket. The bottom white section is made of Nylon and the upper blue section is made from STS-12 SK-75.

Tensile Strength Comparison

Line Diameter	Tensile Strength Nylon Double Braid	Tensile Strength STS-12 SK-75
1/2"	6,900 lbs	28,000 lbs
5/8"	14,500 lbs	51,000 lbs
3/4"	19,800 lbs	68,000 lbs
1"	30,220 lbs	95,000 lbs (7/8 diameter)



CYCLONE™ MOORING PENNANTS

WILLARD & SONS, INC. MARBLEHEAD, MA

STS-12 top sections are available in
1/2", 5/8" and 3/4" diameters.

Stock lengths for 1/2" line are 4 or 6 feet.
Recommended to be coupled with a 6 foot 5/8" or 3/4" Nylon lower.

Stock lengths for 5/8" line are 5 or 7 feet.
Recommended to be coupled with a 7 foot 3/4" or 1" Nylon lower.

Stock lengths for 3/4" line are 6 or 8 feet.
Recommended to be coupled with a 9 foot 1" Nylon lower.

All top sections include appropriately sized nylon chafe sleeve.

Custom configurations are available.
Please e-mail or call us to discuss your needs.



3/4

5/8

1/2



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