

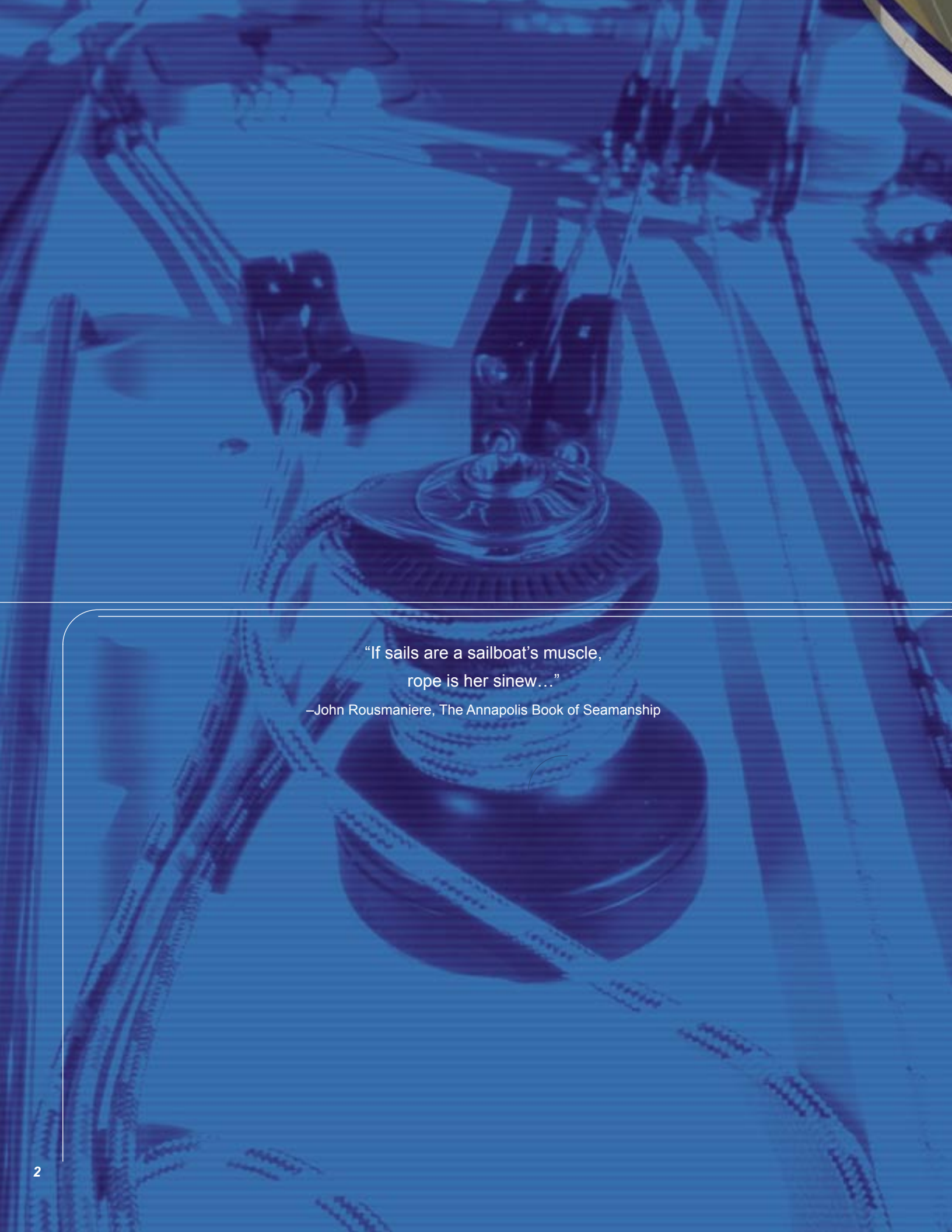


samson

THE STRONGEST NAME IN ROPE

**LINE SELECTION GUIDE:
RUNNING RIGGING**





“If sails are a sailboat’s muscle,
rope is her sinew...”
—John Rousmaniere, The Annapolis Book of Seamanship



Photo © Neil Rabinowitz



The Samson Advantage: Proven performance in the toughest situations.

Around the buoys, a tenth of a knot can make the difference between being first across and an also-ran. Offshore, an approaching squall triggers a quick check that all lines will make it through another patch of rough weather.

For over 125 years, Samson has led the way in developing high performance cordage products to meet the most demanding applications in the world. The running rigging you select for your boat carries the legacy of our experience in industries as diverse as commercial marine, safety and rescue, arborist, utilities, even the space program. We've built an organization offering unprecedented levels of engineering support, technical expertise, superior customer service and aftermarket support to global customers.

Samson is the only major international cordage company that has a staff of dedicated application engineers. Their job is to understand the unique circumstances of a customer's application, suggest current products that will fulfill the requirements, or assist in the development of new products to meet the customer's needs. It is this dedication to problem solving and new product development that is at the heart of the Samson Advantage.

Working with the application engineers to develop new products is the largest research and development organization in the industry. Samson R&D is leading the development of lighter, stronger, longer lasting ropes for high performance applications.

We've pioneered the use of new synthetic fibers, unique constructions and innovative coatings to produce a steady stream of major new product introductions. Supporting the development process is the most advanced, independently owned rope test equipment in the industry. Capable of testing break strengths in both new and used rope to 1.1 million pounds, Samson's customers are assured that the trust they place in our ropes has been proven and validated.

So when you're looking for new sheets to trim your composite genoa, or replacing the halyards on a trusted friend, look for the Samson Advantage. It assures you of performance you can depend on, around the buoys or around the world.

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"Quite simply, there is no better line of rope products for sailing yachts. Whether cruising or racing one of the world's fastest ultralights through the Southern Ocean Samson rope is as reliable as it gets."

—Brad Van Liew

Selecting the appropriate rope for sailing applications can be a confusing proposition.

Each line on a sailing yacht has a function that calls for different properties for the rope selected. Each type of sailing calls for different characteristics. The racer with a small fortune invested in composite sails needs high strength and as close to zero stretch as it's possible to achieve for his sheets to get the most from his investment. A cruising sailor may want sheets that have a good 'hand' or feel and covers that last several seasons.

This selection guide aims to take a little of the mystery out of selecting the best lines for your sailing style and boat by providing more than raw specifications. On every spread of the catalog you'll find information to help make selection a little easier. Attached to the back cover, you'll find a guide to selecting rope based on the application, size of boat and style of sailing. And on our web site www.samsonrope.com, you'll find more information for selecting line, splicing and rigging.

Progen II

The ultimate performance line for the highest end of technical racing. Offers the highest strength of all double braids. 24-Strand cover of polyester with a Samthane coated core of ZYLON® PBO Fiber. The black cover provides maximum UV protection and is available with your choice of red, green, orange, or blue tracers.

CONSTRUCTION: Color-Match 24 double braid

COVER: Polyester, 3-ends per carrier, 24-Strand

CORE: PBO, Samthane coated, coating color matches tracer color

SPLICING: Class II Double Braid Splice

FEATURES:

- Highest strength double braid
- Very low stretch
- Excellent heat and abrasion resistance

ELASTIC ELONGATION:

10%	20%	30%
0.5% EE	0.74% EE	1.0% EE

After 50 cycles at % of break strength.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	500'	5,500	6.0
1/4"	500'	8,000	11.0
5/16"	500'	11,000	19.0
3/8"	500'	17,500	27.5
7/16"	500'	24,000	35.0
1/2"	500'	30,000	45.0
9/16"	500'	36,500	58.5
5/8"	500'	46,000	71.5
3/4"	500'	68,000	101.0

WarpSpeed® and WarpSpeed White

WarpSpeed offers a great strength/weight/stretch profile that is extremely popular with high-performance racers. 24-Strand polyester cover with a Samthane coated core of Dyneema®. Product core color matches external cover tracers. Cover is beige with your choice of black, red, green, or blue tracers.

WarpSpeed White has a white cover with your choice of all white or tracers in red or blue.

CONSTRUCTION: Color-Match 24 double braid

COVER: Polyester, 3-ends per carrier, 24-Strand

CORE: Dyneema®, Samthane coated, color matches tracer color

SPLICING: Class II Double Braid Splice

FEATURES

- High strength
- Very low stretch
- Excellent abrasion resistance

ELASTIC ELONGATION:

10%	20%	30%
0.44% EE	0.62% EE	0.79% EE

After 50 cycles at % of break strength.

WarpSpeed White



WarpSpeed



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
1/4"	500'	5,100	8.0
5/16"	500'	6,200	15.0
3/8"	500'	9,800	19.0
7/16"	500'	14,000	29.0
1/2"	500'	21,000	41.0
9/16"	500'	26,500	46.0

Color-Match 24 and the racing sailor...

The Color-Match 24 logo you see throughout this catalog denotes a specially engineered type of double braid construction.

These are core dependent ropes – the core is the strength member in this construction. The cover provides protection from abrasion and better grip on winches, cleats and line stoppers. Typically, the high performance fibers used in these ropes have tremendous strength and very low stretch, but don't grip winches well due to their slippery surface.

Color-Match 24 cores are dyed to match the cover's tracer pattern color so that color coding of lines remains intact even when covers are stripped. Covers are 24-Strand, in a 3-end per carrier construction that provides optimum flexibility and grip on winch drums and cleats while resisting abrasion.

To reduce weight, many riggers choose to strip the covers from core dependent double braids in those areas that don't need to be handled by deck hardware. In the case of halyards, stripping covers reduces weight aloft without compromising strength, particularly when compared to wire halyards.

For complete instructions on stripping covers from core dependent double braids, see the splicing instructions at www.samsonrope.com.

LiteSpeed

LiteSpeed was created as a floating version of WarpSpeed. It has a 24-Strand cover made with MFP which is why it floats. The core is 100% Dyneema®. Core color matches external cover tracers. Cover is green with your choice of yellow, black, red, or blue tracers.

CONSTRUCTION: Color-Match 24 double braid

COVER: 100% MFP, 3-ends per carrier, 24-Strand

CORE: Dyneema®, Samthane coated, coating color-matched to tracer color

SPLICING: Class II Double Braid Splice

FEATURES

- High strength-to-weight ratio
- Very low stretch
- Floats

ELASTIC ELONGATION:

10%	20%	30%
0.39% EE	0.49% EE	0.77% EE

After 50 cycles at % of break strength.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
1/4"	500'	4,100	7.0
5/16"	500'	6,200	10.0
3/8"	500'	9,300	16.0

Apex NEW!

A lightweight single braid tuned to the intensity of competition, Apex is available in 3/16" to 1/2" diameters. Our new race-ready line delivers quick and fluid control. Combining the low-stretch strength of Dyneema with the good grip of MFP, it floats, won't kink and is easy on the hands. The effect is smoother sailing and a firm fix on being first to the finish.

CONSTRUCTION: 12-Strand Single Braid
MFP/Dyneema blend

SPLICING: Class II 12-Strand Splice

FEATURES:

- High strength-to-weight ratio
- Very low stretch
- Floats

ELASTIC ELONGATION:

10%	20%	30%
1.0% EE	1.5 % EE	1.8% EE

After 50 cycles at % of break strength.

Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	500'	1,500	3.0
1/4"	500'	3,000	6.0
5/16"	500'	5,200	11.0
3/8"	500'	6,200	13.0
7/16"	500'	7,000	16.0
1/2"	500'	8,000	21.0

Lightning Rope

Samthane coated 12-Strand of blended Vectran and Dyneema®. Available with black, red, green, or blue Samthane coatings.

CONSTRUCTION: 12-Strand Single Braid
Vectran/Dyneema® Blend

SPLICING: Class II 12-Strand Splice

FEATURES:

- High strength-to-weight ratio
- Very low stretch

ELASTIC ELONGATION:

10%	20%	30%
0.59% EE	0.68% EE	0.77% EE

After 50 cycles at % of break strength.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
7/64"	500'	1,400	2.0
1/8"	500'	2,100	2.5
3/16"	500'	5,400	5.0
1/4"	500'	7,900	7.5
5/16"	500'	13,500	13.0
3/8"	500'	18,500	17.5
7/16"	500'	20,600	20.0
1/2"	500'	32,000	30.0
9/16"	500'	41,600	37.0
5/8"	500'	50,600	50.5

Line Selection: A balancing act.

Selecting the appropriate rope to rig your boat is an exercise in balance. The characteristics of the fibers used and the rope's construction are weighed against the application to which it will be put. Characteristics such as strength, weight, elongation, abrasion resistance, heat resistance, ease of splicing and cost can all be weighed into the decision.

Your style of sailing makes a difference as well. The cruiser may select his lines based on function and service life. A good feel and abrasion resistance can be more important than ultra low stretch or heat resistance. The high performance racer may opt for the zero stretch and light weight of Validator 12 or AmSteel®-Blue, even though it may require adding covers in areas that contact winches or stoppers. Between the two extremes are the club racers and the cruiser interested in maximum performance. Each will weigh all the factors, including cost into their decision.

The selection guide attached to the back cover of this catalog takes three factors into consideration: your style of sailing (high performance racing, club racing/ performance cruising, and cruising), the size of your boat, and the application. Use it as a starting point for selecting the most appropriate rope for your application.

Validator SKB

Higher strength than Validator II. 24-Strand polyester cover and Samthane coated core of blended Vectran® and Dyneema®. Blue cover with green, red, or white tracers.

CONSTRUCTION: Color-Match 24 double braid

COVER: Polyester, 3-ends per carrier, 24-Strand

CORE: Blend of Vectran and Dyneema®
Samthane coated, coating color matched to tracers

SPLICING: Class II Double Braid Splice

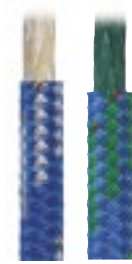
FEATURES

- High strength
- Low stretch
- No creep
- Excellent abrasion resistance

ELASTIC ELONGATION:

10%	20%	30%
0.49% EE	0.72% EE	0.92% EE

After 50 cycles at % of break strength.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	500'	4,800	6.5
1/4"	500'	6,300	12.5
5/16"	500'	8,000	15.0
3/8"	500'	12,900	26.0
7/16"	500'	16,500	38.0
1/2"	500'	22,800	43.5
9/16"	500'	32,500	60.0
5/8"	500'	42,600	77.5
3/4"	500'	53,400	102.0

Validator II

Lower strength than Validator SK but the 100% Vectran® core will not creep. 24-Strand polyester cover. Cover is grey, with your choice of black, red, green, or blue tracers.

CONSTRUCTION: Color-Match 24 double braid

COVER: Polyester, 3-ends per carrier, 24-Strand

CORE: Vectran fiber, Samthane coated, coating color matches tracer color

SPLICING: Class II Double Braid Splice

FEATURES

- High strength
- Very low stretch
- Excellent abrasion resistance
- No creep

ELASTIC ELONGATION:

10%	20%	30%
0.59% EE	0.78% EE	0.98% EE

After 50 cycles at % of break strength.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	500'	3,300	7.0
1/4"	500'	5,000	11.0
5/16"	500'	7,000	18.5
3/8"	500'	11,000	25.0
7/16"	500'	15,200	35.0
1/2"	500'	20,000	45.0
9/16"	500'	26,000	60.0
5/8"	500'	30,000	72.0
3/4"	500'	45,000	102.0
7/8"	500'	63,000	135.0
1"	500'	80,000	175.0
1-1/8"	500'	100,000	220.0
1-1/4"	500'	123,000	260.0
1-5/16"	500'	135,000	290.0
1-3/8"	500'	148,000	316.0
1-7/16"	500'	160,000	339.0
1-1/2"	500'	174,000	373.0

Validator 12

Samthane coated 12-Strand of Vectran. Offers the assurance of "no creep" Vectran fiber. Available with red, green, blue, and black Samthane coatings.

CONSTRUCTION: Vectran®, Samthane coated single braid

SPLICING: Class II 12-Strand Splice

FEATURES

- High strength-to-weight ratio
- Very low stretch
- No creep

ELASTIC ELONGATION:

10%	20%	30%
0.49% EE	0.78% EE	0.98% EE

After 50 cycles at % of break strength.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
7/64"	600'	2,000	2.7
1/8"	600'	2,700	3.7
3/16"	600'	5,500	7.5
1/4"	600'	9,400	13.2
5/16"	600'	14,000	21.6
3/8"	600'	19,500	27.6
7/16"	600'	23,500	36.6
1/2"	600'	35,000	52.8
9/16"	600'	43,000	64.8
5/8"	600'	55,000	84.0

Ultra-Tech

A good alternative to Validator II or Progen II. 24-Strand polyester cover and Samthane coated core of Technora®. Cover is burgundy with your choice of red, green, blue, or black tracers.

CONSTRUCTION: Color-Match 24 double braid

COVER: Polyester, 3-ends per carrier, 24-Strand

CORE: Technora® fiber, Samthane coated, coating color matches tracer color

SPLICING: Class II Double Braid Splice

FEATURES

- Replaces wire halyards
- Works well around sheaves and winches
- Conventional D/d ratio (8:1)

ELASTIC ELONGATION:

10%	20%	30%
0.63% EE	0.97% EE	1.24% EE

After 50 cycles at % of break strength.

Please note the 3/16" diameter is not spliceable due to its parallel core construction.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	500'	2,300	5.0
1/4"	500'	4,800	10.5
5/16"	500'	7,800	20.0
3/8"	500'	10,000	23.0
7/16"	500'	14,800	32.0
1/2"	500'	20,000	49.0

Tech 12

Samthane 12-Strand coated Technora®. Offers excellent heat resistance. Available with black, red, green, or, blue Samthane coatings.

CONSTRUCTION: 100% Technora, Samthane coated single braid

SPLICING: Class II 12-Strand Splice

FEATURES

- Easy to splice
- Samthane UV coating
- Replaces wire halyards
- Works well around sheaves and winches
- Conventional D/d ratio (8:1)
- Excellent heat resistance

ELASTIC ELONGATION:

10%	20%	30%
0.63% EE	0.96% EE	1.20% EE

After 50 cycles at % of break strength.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
1/8"	600'	2,800	3.6
3/16"	600'	5,600	7.8
1/4"	600'	8,200	11.4
5/16"	600'	13,000	19.2
3/8"	600'	18,000	25.8

AmSteel®

An efficient 12-Strand construction of Samthane coated Dyneema®. A good alternative to AmSteel-Blue. Standard color: grey. Other colors available by special order: red, black and green.

CONSTRUCTION: Dyneema®, grey
Samthane coated single braid

SPLICING: Class II 12-Strand Splice

FEATURES

- Easily spliced (much like 12-Strand hollow braid ski rope)
- Extremely light weight
- Floats – will not absorb water
- Extremely low stretch
- Outlasts wire rope

ELASTIC ELONGATION:

10%	20%	30%
0.48% EE	0.72% EE	0.94% EE

After 50 cycles at % of break strength.

SPECIAL ORDER COLORS



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
7/64"	600'	1,400	1.8
1/8"	600'	2,100	3.0
3/16"	600'	5,000	6.0
1/4"	600'	7,400	9.6
5/16"	600'	10,500	16.2
3/8"	600'	15,500	21.6
7/16"	600'	18,000	25.2
1/2"	600'	27,500	38.4
9/16"	600'	34,000	47.4
5/8"	600'	40,700	61.2

AmSteel®-Blue

Samthane coated 12-Strand of Dyneema®. Has the highest strength of all our competition grade single braids. Standard color: blue. Other colors available by special order: red, green and orange.

CONSTRUCTION: Dyneema®, blue
Samthane coated single braid

SPLICING: Class II 12-Strand Splice

FEATURES

- Stronger than AmSteel
- Much stronger than steel
- Very low stretch
- Easily spliced
- Superior wear and flex fatigue
- Torque free

ELASTIC ELONGATION:

10%	20%	30%
0.46% EE	0.70% EE	0.96% EE

After 50 cycles at % of break strength.

SPECIAL ORDER COLORS



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	600'	5,400	6.0
1/4"	600'	8,600	9.6
5/16"	600'	13,700	16.2
3/8"	600'	19,600	21.6
7/16"	600'	23,900	25.2
1/2"	600'	34,000	38.4
9/16"	600'	40,500	47.4
5/8"	600'	52,800	61.2
3/4"	600'	64,400	79.8
7/8"	600'	90,800	118.0
1"	600'	109,000	131.0



Adding covers to high performance single braids...

Modern fiber technology has given us the ability to produce single braids with extreme strength, incredibly light weights, and zero stretch. To enhance handling, protect the line from abrasion, and provide better grip on winches, cleats and rope stoppers, riggers often add a cover just in those sections of the line where they are handled or where they need the additional grip for deck hardware.

While covers can be stripped from less expensive double braids and applied to the lines needing protection, Samson offers two new products to address this problem: Samson Ice and Black Ice. In addition to providing enhanced rope handling and grip, these specialty covers also protect the lines from heat buildup and provide additional wear protection. Samson Ice, braided from a blend of Vectran and PBO fibers; and Black Ice, braided from 100% Vectran, are cover only constructions. Both come complete with messenger lines for easy installation.

Complete information on adding covers is available on the Samson web site at www.samsonrope.com

Ultra-Lite

Ultra-Lite is great for light wind sheets. This lightweight, floating double braid has a 24-Strand MFP cover and a blended core of MFP and Dyneema®. Cover is available in black, red, green or blue. Tracer color is yellow.

CONSTRUCTION: Double braid

COVER: MFP Olefin, 3-ends per carrier, 24-Strand

CORE: Blend of Dyneema® and MFP Olefin

SPLICING: Class II Double Braid Splice

FEATURES

- Floats – will not absorb water
- Excellent strength
- Low stretch

ELASTIC ELONGATION:

10%	20%	30%
0.65% EE	1.00% EE	1.29% EE

After 50 cycles at % of break strength.

**Please note the 3/16" diameter is not spliceable due to its parallel core construction*



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	500'	1,200	4.5
1/4"	500'	2,200	9.5
5/16"	500'	2,900	12.5
3/8"	500'	4,400	16.0

Samson Ice

Designed to mate with our high performance 12-Strand single braided ropes. The cover only construction, a blend of Vectran and PBO fibers, creates protection from heat buildup and gives additional wear protection. Easy to install for any length of coverage required and eliminates the need to strip long lengths of cover off double braided rope constructions.

CONSTRUCTION: Cover only with integrated messenger line. Designed to mate with our high performance 12-Strand ropes.

COVER: Vectran and PBO

FEATURES

- Protects single braid from abrasion and heat resistance

Model	I.D. Color	Size Diameter	Net Wt. Lbs.
A	Red	1/4"	10.2
A	Red	5/16"	10.2
A	Red	3/8"	10.2
B	Blue	7/16"	14.4
B	Blue	1/2"	14.4
B	Blue	9/12"	14.4



XLS Extra and XLS Extra-T

Created for performance-oriented cruisers and for club racers wanting higher strength and lighter weight than that achieved with a polyester double braid. XLS Extra offers the smooth flexibility of a 24-Strand braided polyester cover with a braided core made from a blend of MFP and Dyneema®. Cover is navy blue with your choice of red, green, blue or beige color tracers.

CONSTRUCTION: Double braid

COVER: Polyester, 3-ends per carrier, 24-Strand

CORE: MFP and Dyneema blend

SPLICING: Class II Double Braid Splice

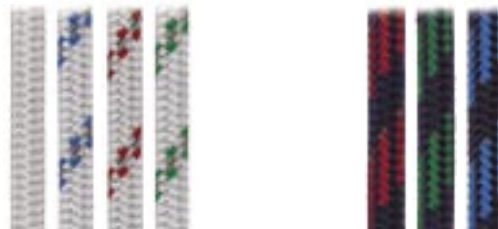
FEATURES

- Excellent wire halyard replacement
- Lighter than double braid polyesters
- May be used for all sheeting applications
- Low stretch

ELASTIC ELONGATION:

10%	20%	30%
0.65% EE	1.00% EE	1.29% EE

After 50 cycles at % of break strength.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
1/4"	500'	2,300	10.5
5/16"	500'	3,500	16.0
3/8"	500'	4,600	20.0
7/16"	500'	6,100	28.5
1/2"	500'	8,700	38.5

Black Ice

The same great benefits of Samson Ice, but made from 100% Vectran. Designed to mate with our high performance 12-Strand single braided ropes, the cover only construction is natural with a black tracer.

CONSTRUCTION: Cover only with integrated messenger line. Designed to mate with our high performance 12-Strand ropes.

COVER: 100% Vectran

FEATURES

- Protects single braid ropes from abrasion

Model	I.D. Color	Size Diameter	Net Wt. Lbs.
A	Black	1/4"	10.2
A	Black	5/16"	10.2
A	Black	3/8"	10.2
B	Black	7/16"	14.4
B	Black	1/2"	14.4
B	Black	9/12"	14.4





LS & LST Yacht Braid

A good general purpose yacht braid for all applications. A 2-in-1® double braid construction with a polyester cover and a polyester core. LS is white with a varigated red and green ID. LST is white with your choice of tracers in black, red, green or blue.

CONSTRUCTION: 2-in-1 double braid

COVER: Polyester, 2-ends per carrier

CORE: Polyester

SPLICING: Class I Double Braid Splice

FEATURES

- Good strength characteristics
- Great 'hand'
- Great flexibility and handling
- Excellent abrasion resistance

ELASTIC ELONGATION:

10%	20%	30%
1.80% EE	2.60% EE	3.30% EE

After 50 cycles at % of break strength.

LST



Recreational Grade Running Rigging

Samson's traditional yacht braids, LS, Trophy and XLS combine the strength, durability and ease of handling of all polyester double braids. Cruisers appreciate the long service life and extreme flexibility these traditional yacht braids deliver. They provide excellent grip on winches and stoppers, moderate to low stretch, and good strength for most applications on board.

Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	250'	1,200	3.3
	500'		6.5
	1,500'		19.5
1/4"	250'	1,900	5.5
	500'		11.0
	2,000'		44.0
5/16"	250'	2,300	7.5
	500'		15.0
	1,500'		45.0
3/8"	250'	3,700	9.5
	500'		19.0
	1,500'		57.0
7/16"	250'	4,900	15.3
	500'		30.5
	2,500'		153.0
1/2"	250'	7,000	18.5
	500'		37.0
	2,500'		185.0
5/8"	250'	11,000	28.3
	500'		56.5
	1,500'		170.0

LST not available in 250' put-ups

**Please note the 3/16" diameter is not spliceable due to its parallel core construction.*

***5/8" diameter is only available in white.*

Trophy Braid

Soft, fuzzy cover gives the rope a softer hand. Excellent for cruising sailors wanting something easy on the hands. 2-in-1 double braid construction with a spun (fuzzy) polyester cover and a polyester core. Trophy Braid is available in white, black, red, green or blue with a variegated red and green ID.

CONSTRUCTION: 2-in-1 double braid

COVER: Spun polyester

CORE: Polyester

SPLICING: Class I Double Braid Splice

FEATURES

- Easy to hold, wet or dry
- Holds well in all types of cleats
- Solid grip on winch drums

ELASTIC ELONGATION:

10%	20%	30%
2.20% EE	3.10% EE	3.80% EE

After 50 cycles at % of break strength.



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	500'	800	5.0
1/4"	500'	1,400	9.0
1/4"	2,000'	1,400	36.0
5/16"	500'	2,000	13.5
5/16"	1,500'	2,000	40.5
3/8"	500'	3,000	18.0
7/16"	500'	4,000	27.5
1/2"	500'	6,000	35.0

*Please note the 3/16" diameter is not spliceable due to its parallel core construction. **1/2" diameter is only available in white.

XLS Yacht Braid, XLS Tracers & XLS Solid Color

Our most popular polyester double braid. XLS Yacht braid has less elongation and a heavier cover than LS Yacht Braid. For cruising sailors desiring the optimal performance afforded by this lower stretch construction and the smooth rendering of the 3-end per carrier cover. 2-in-1 double braid construction with a polyester cover and a polyester core. XLS is available in white, in solid colors and with tracers. XLS White has a variegated red and green ID in the cover. XLS Tracers is available with red, green and blue tracers and the red and green variegated ID. XLS Solid Color is available in black, red, green and blue, all having a triple white tracer with a red and green variegated ID.

CONSTRUCTION: 2-in-1 double braid

COVER: Polyester, 3-ends per carrier

CORE: Polyester

SPLICING: Class I Double Braid Splice

FEATURES

- Outstanding abrasion resistance
- Less stretch than LS Yacht Braid
- Heavier cover than LS Yacht Braid
- Highest strength double braid polyester rope

ELASTIC ELONGATION:

10%	20%	30%
1.50% EE	2.20% EE	2.90% EE

After 50 cycles at % of break strength.

XLS Solid Color



XLS Tracers



Size Diameter	Put-Up	Strength Avg. Lbs.	Net Wt. Lbs.
3/16"	500'	1,200	6.5
1/4"	500'	2,200	11.5
5/16"	500'	3,300	16.5
3/8"	500'	4,400	21.5
7/16"	500'	5,800	32.0
1/2"	500'	8,300	41.0

*Diameters 9/16" and larger are only available in XLS White. Please note the 3/16" diameter is not spliceable due to its parallel core construction. Larger sizes and other put-ups available in XLS and XLS Tracers.

Samson Dock and Anchor Lines provide strength and security whether you're anchored for the night or docked securely in your berth.

There are two different constructions used in Samson dock and anchor lines. 2-in-1® Super Strong, 2-in-1® Solid Color and Gold-N-Braid are double braids composed of a braided nylon core with a braided nylon cover and Pro-Set Nylon, a 3-Strand, all nylon construction.

Samson dock lines are available in a selection of lengths and sizes, and all are pre-spliced with an eye splice on one end. Custom lengths and eye sizes to suit specific mooring requirements are available. Contact your local dealer, and allow 2-3 weeks for shipment.

All Samson dock and anchor lines are treated with Samson's Pro-Gard 1000 marine finish to further enhance wet strength and abrasion resistance.



Samson anchor lines are shipped with a pre-spliced, high strength, reinforced black synthetic captive thimble. Smaller diameters are shipped in convenient, reusable plastic tote boxes. Longer lengths or spool put-ups are available; contact your local dealer for more information.

Dock and Anchor Lines

It's a fact of life that, for most of us, our boats spend more time at the dock or moored than underway. Whether your boat is sail or power, the dock and anchor lines are usually the most frequently used lines aboard.

Samson makes dock and anchor lines in two constructions, double braided and three-strand. Both are all nylon – proven to be the best fiber for use in applications like anchoring where greater elongation is a good thing.

Proper stretch can help smooth out the surges caused by wind, wake and heavy seas, and relieve your deck hardware of a little stress from shock loading.

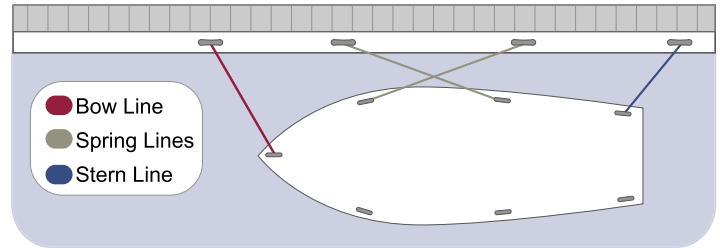
Dock Lines

Double Braids



Gold-N-Braid 2-in-1 Solid Color 2-in-1 Super Strong Pro-Set Nylon 3-Strand

3-Strand



Formulas for calculating custom dock lines:

- Bow Lines = $1-1/2 \times \text{Beam}$
- Spring Lines = $3/4 \times \text{Length Over All}$
- Stern Lines = $1-1/2 \text{ to } 2 \times \text{Beam}$

Elastic Elongation After 50 Cycles at % of Breaking Strength

	10%	20%	30%
2-in-1 Solid Color	3.5	5.6	8.5
Gold-N-Braid	3.5	5.6	8.5
2-in-1 Super Strong	3.0	5.3	6.7
Pro-Set Nylon	5.5	10.0	12.1

Dock & Anchor Line Selection Guide

Strengths are approximate averages of new rope.

Boat Size	Gold-N-Braid	2-in-1 Solid Color	2-in-1 Super Strong	Pro-Set Nylon
15 to 25'	3/8" 4,500 lbs.	3/8" 4,500 lbs.	3/8" 4,900 lbs.	3/8" 4,000 lbs.
26 to 30'	3/8" 4,500 lbs.	3/8" 4,500 lbs.	3/8" 4,900 lbs.	1/2" 7,000 lbs.
31 to 35'	3/8" 4,500 lbs.	3/8" 4,500 lbs.	3/8" 4,900 lbs.	1/2" 7,000 lbs.
36 to 40'	1/2" 7,900 lbs.	1/2" 7,900 lbs.	1/2" 8,600 lbs.	5/8" 11,100 lbs.
41 to 50'	1/2" 7,900 lbs.	1/2" 7,900 lbs.	1/2" 8,600 lbs.	5/8" 11,100 lbs.
51 to 60'	5/8" 14,000 lbs.	5/8" 14,000 lbs.	5/8" 15,200 lbs.	3/4" 15,000 lbs.
61 to 75'	3/4" 19,400 lbs.	3/4" 18,500 lbs.	3/4" 18,800 lbs.	7/8" 21,100 lbs.
76 to 90'	3/4" 19,400 lbs.	7/8" 27,000 lbs.	7/8" 29,000 lbs.	1" 27,800 lbs.
91 to 100'		1" 33,900 lbs.	1" 36,000 lbs.	
101 to 120'		1" 33,900 lbs.	1" 36,000 lbs.	



Chafe Protection

Dock and anchor lines should be well protected from chafe. The constant abrasion where lines contact chocks or the rail can cause the strongest lines to fail well before their normal useful lifespan. All contact points should be covered with canvas, leather, chafing tape or even plastic tubing to prevent wear.

Anchor Line Scope

The holding power of any anchor is dramatically increased with the proper scope of anchor line. Lengths of anchor line should be available to provide a scope of 7:1 (seven times the waters depth at the anchor) in all anticipated anchorages. This will provide enough security for even heavy seas. Holding power can be further enhanced with a section of chain (6 to 8 feet or more) between the anchor and rode. The combination lowers the angle of pull, causing most modern anchor designs to bury-in, rather than drag.





General Cordage

Samson products serve many purposes on board – not just the glamour jobs on deck. From high performance lashing twines to a floating line that's perfect for your dingy's painter, Samson lines perform yeoman duty on the dock, in the lazerette, and on deck.



Lash-It!

A single braid made from Dyneema® fiber with Samthane urethane coating. Offers high strength to weight ratio. It is stronger than steel, floats and will not absorb water. Multiple uses – it's the sailor's duct tape

Size Diameter	Spool Put-Up	Average Strength	Net Wet. Lbs.
1.75 mm	180' Tube	400 lbs.	0.22 lbs.
1.75 mm	600' Spool	400 lbs.	0.72 lbs.



MFP Floatline

2-in-1® Braid with a multifilament polypropylene cover and floating core. Yellow with red ID.

Size Diameter	Spool Put-Up	Average Strength	Net Wet. Lbs.
1/4"	600'	1,700 lbs.	8.4 lbs.
3/8"	600'	2,300 lbs.	16.2 lbs.
1/2"	600'	3,700 lbs.	28.8 lbs.

Hollow Braid Polypropylene

UV Stabilized, mono-filament, polypropylene. Easy to splice. Floats. Color: Green.

Size Diameter	Spool Put-Up	Average Strength	Net Wet. Lbs.
3/16"	600'	750 lbs.	3.6 lbs.
1/4"	600'	1,200 lbs.	6.6 lbs.
5/16"	600'	1,700 lbs.	9.6 lbs.
3/8"	600'	2,600 lbs.	13.8 lbs.
1/2"	600'	4,300 lbs.	22.2 lbs.



Accessory Cord

With a polyester cover and nylon core, Samson's Accessory Cord has excellent flexibility, knotting and strength characteristics for a smooth running, torque-free cord.

Size Diameter	Spool Put-Up	Average Strength	Net Wet. Lbs.
2 mm	300'	230 lbs.	0.6 lbs.
3 mm	300'	600 lbs.	1.5 lbs.
4 mm	300'	1,000 lbs.	2.4 lbs.
5 mm	300'	1,200 lbs.	4.2 lbs.
6 mm	300'	2,200 lbs.	5.4 lbs.
7 mm	300'	2,800 lbs.	6.9 lbs.
8 mm	300'	3,500 lbs.	9.0 lbs.
9 mm	300'	4,300 lbs.	11.4 lbs.



Solid Braid Nylon

Firm round construction that resists rot and mildew. Stays flexible and has shock absorbing ability.

Size Diameter	Put-Up	Pack Lbs	Units Per Pack
1/8"	250' Spool	1.0 lbs.	1
	500' Spool	2.0 lbs.	1
	1,000' Spool	4.0 lbs.	1
5/32"	500' Spool	3.0 lbs.	1
3/16"	250' Spool	2.0 lbs.	1
	500' Spool	4.0 lbs.	1
1/4"	250' Spool	3.2 lbs.	1
	500' Spool	6.5 lbs.	1
5/16"	250' Spool	5.0 lbs.	1
	500' Spool	10.0 lbs.	1
3/8"	250' Spool	9.0 lbs.	1
	500' Spool	18.0 lbs.	1
1/2"	500' Spool	27.5 lbs.	1



Solid Braid Polyester

Firm round construction that resists rot and mildew. Stays flexible and has shock absorbing ability.

Size Diameter	Put-Up	Pack Weight	Units Per Pack
3/32"	50' Hank	2.0 lbs.	12
	500' Spool	1.5 lbs.	1
	1,000' Spool	3.0 lbs.	1
1/8"	50' Hank	3.5 lbs.	12
	500' Spool	2.5 lbs.	1
5/32"	1,000' Spool	5.0 lbs.	1
	50' Hank	4.5 lbs.	12
	500' Spool	4.0 lbs.	1
"	1,000' Spool	7.0 lbs.	1
	50' Hank	8.0 lbs.	12
	500' Spool	5.5 lbs.	1
3/16"	1,000' Spool	11.0 lbs.	1
	50' Hank	10.0 lbs.	12
	500' Spool	8.0 lbs.	1
1/4"	1,000' Spool	16.0 lbs.	1
	50' Hank	14.0 lbs.	12
	500' Spool	28.0 lbs.	1
5/16"	500' Spool	14.0 lbs.	1
	1,000' Spool	28.0 lbs.	1
3/8"	500' Spool	20.0 lbs.	1



Tie-It Braid

Constructed of white braided polypropylene cover with a knot holding control core.

Size Diameter	Put-Up	Pack Weight	Units Per Pack
3/16"	100' Hank	6.7 lbs.	12
	1,000' Spool	5.9 lbs.	1
7/32"	100' Hank	8.1 lbs.	12
	1,000' Spool	10.0 lbs.	1
1/4"	100' Hank	12.5 lbs.	12
	1,000' Spool	15.4 lbs.	1
5/16"	100' Hank	25.0 lbs.	12
	1,000' Spool	15.4 lbs.	1
3/8"	100' Hank	25.0 lbs.	12



Nylon Starter Cord

General purpose cord with a braided nylon cover and twisted nylon core.

Size Diameter	Put-Up	Pack Weight
3/32"	1,000' Spool	4.0 lbs.
1/8"	1,000' Spool	7.0 lbs.
5/32"	1,000' Spool	8.0 lbs.
3/16"	1,000' Spool	10.0 lbs.
7/32"	1,000' Spool	13.0 lbs.

Size Diameter	Put-Up	Pack Lbs	Units Per Pack
1/4" Fid	1 each	0.6 lbs.	12
5/16" Fid	1 each	1.2 lbs.	12
3/8" Fid	1 each	1.8 lbs.	12
7/16" Fid	1 each	2.4 lbs.	12
1/2" Fid	1 each	2.4 lbs.	12
9/16" Fid	1 each	3.0 lbs.	6
5/8" Fid	1 each	3.0 lbs.	6
3/4" Fid	1 each	6.0 lbs.	6
7/8" Fid	1 each	9.0 lbs.	6
1" Fid	1 each	12.0 lbs.	6
Small Pusher	1 each	2.4 lbs.	12
Large Pusher	1 each	2.4 lbs.	6
Selma Fids	set of 5	0.5 lbs.	1
Splice Training	1 each	12.0 lbs.	6
Splicing Kit	1 kit	9.6 lbs.	12

Splicing Tools & Kits

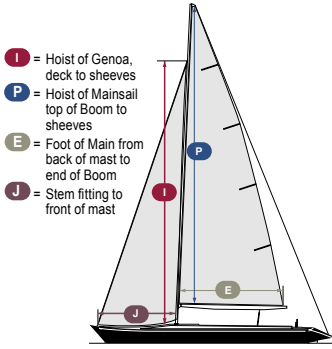


The Samson Splice Training Kit comes complete with a fid, pusher, instruction manual and a length of double braid rope.



The Samson Splicing Kit comes with 5 aluminum tubular fids (size range 1/4" through 1/2" diameter).

Racing or cruising, Samson makes a line for every application.

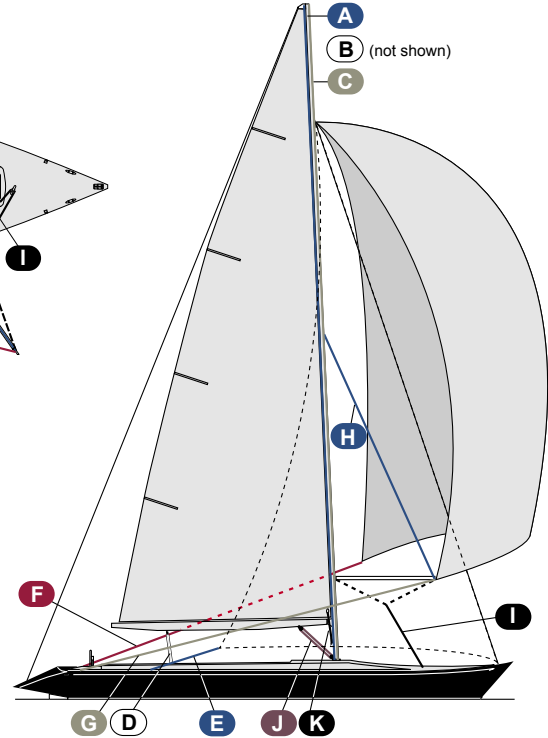
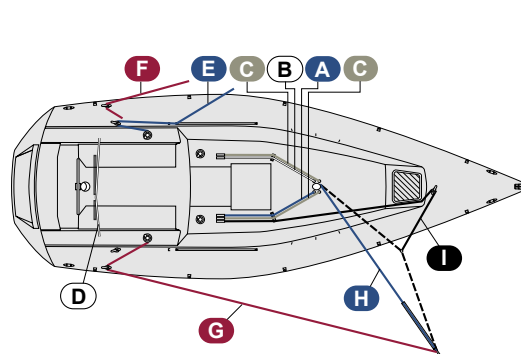


Sheets, halyards and control lines all require different characteristics in strength and stretch. In the charts on the reverse side, you'll find a Samson line engineered for your size boat, the type of sailing you do, and its function in your rig. For sheets, use your sail plan and the sheet load formula provided to determine the appropriate size/strength for your boat and the wind conditions you expect to encounter.

To calculate typical loads on sheets for genoas, jibs, end of boom mainsheets, spinnaker guys and sheets, the following formula can be used: (not applicable to multihull vessels)
(Windspeed)² x .004 x (Sail area in Square Feet) = Sheet Load at Clew in pounds

To calculate sail area based on your sail plan, use the following formulas:

100% Fore Triangle = 1/2J x P Mainsail = 1/2E x P



HALYARDS

- A Main Halyard**
Usage: Hoist or lower Mainsail
- B Jib/Genoa Halyard**
Usage: Hoist or lower Jib/Gnoa
- C Spinnaker Halyard**
Usage: Hoist or lower Spinnaker

SHEETS

- D Main Sheet**
Usage: In or out trim of Mainsail
- E Jib/Genoa Sheet**
Usage: In or out trim of Jib
- F Spinnaker Sheet**
Usage: In or out trim of Spinnaker
- G Spinnaker Guy**
Usage: In or out trim of Spinnaker Pole

CONTROL LINES

- H Topping Lift**
Usage: Up or down adjustment of Spinnaker Pole
- I Fore Guy**
Usage: Downward Tensioner for Spinnaker Pole
- J Boom Vang**
Usage: Tensioner – usually downward for Boom
- K Cunningham**
Usage: Tensioner for Mainsail

BREAKING STRENGTHS (Approximate Average in lbs.)											
Diameter	7/64"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"
Tech 12		2,800	5,600	8,200	13,000	18,000					
Validator 12	2,000	2,700	5,500	9,400	14,000	19,500	23,500	35,000	43,000	55,000	
WarpSpeed				5,100	6,200	9,800	14,000	21,000	26,500		
Validator II			3,300	5,000	7,000	11,000	15,200	20,000	26,000	30,000	45,000
Validator SKB			4,800	6,300	8,000	12,900	16,500	22,800	32,500	42,600	53,400
Progen II			5,500	8,000	11,000	17,500	24,000	30,000	36,500	46,000	68,000
Ultra-Tech			2,300	4,800	7,800	10,000	14,800	20,000			
LiteSpeed				4,100	6,200	9,300					
AmSteel	1,400	2,100	5,000	7,400	10,500	15,500	18,000	27,500	34,000	40,700	
AmSteel Blue			5,400	8,600	13,700	19,600	23,900	34,000	40,500	52,800	64,400
Lightning Rope	1,400	2,100	5,400	7,900	13,500	18,500	20,600	32,000	41,600	50,600	
XLS Extra				2,300	3,500	4,600	6,100	8,700			
Ultra Lite			1,200	2,200	2,900	4,400					
XLS			1,200	2,200	3,300	4,400	5,800	8,300	11,000	13,600	19,000
LS			1,200	1,900	2,300	3,700	4,900	7,000		11,000	
Trophy			800	1,400	2,000	3,000	4,000	6,000			
Apex			1,500	3,000	5,200	6,200	7,000	8,000			

Using Break Strength

The Break Strength chart lists tested average break strengths for all ropes in this catalog. In selecting ropes keep in mind that standard working loads should be no more than 20% of the ropes rated break strength.



Using Elastic Elongation Data

For some applications, the amount of stretch of a line under a known load can be critical. Elastic elongation is expressed as a percentage of the line's length under a given load. To use the chart, calculate, or approximate the anticipated load – and determine what percentage (10%, 20% or 30%) of the rope breaking strength is closest to your load.

Use the percentage listed in the chart to calculate the elongation: multiply the length of the line by the percentage of elongation in the chart. If the percentage of elongation from the chart is .44%, multiply the length of the line by .0044.

ELASTIC ELONGATION AFTER 50 CYCLES

% of Breaking Strength	10%	20%	30%
Tech 12	0.63%	0.96%	1.20%
Validator 12	0.49%	0.78%	0.98%
WarpSpeed / White	0.44%	0.62%	0.79%
Validator II	0.59%	0.78%	0.98%
Validator SKB	0.49%	0.72%	0.92%
Progen II	0.50%	0.74%	1.0%
Ultra-Tech	0.63%	0.97%	1.24%
LiteSpeed	0.39%	0.49%	0.77%
AmSteel	0.48%	0.72%	0.94%
AmSteel-Blue	0.46%	0.70%	0.96%
Lightning Rope	0.59%	0.68%	0.77%
Apex	1.00%	1.50%	1.80%
XLS Extra / Extra-T	0.65%	1.00%	1.29%
Ultra-Lite	0.65%	1.00%	1.29%
XLS	1.50%	2.20%	2.90%
LS	1.80%	2.60%	3.30%
Trophy	2.20%	3.10%	3.80%

Metric Conversion Chart for Line Diameter and Circumference

Diameter		Circumference	
Inch	mm	Inch	mm
7/64"	2.5	5/16"	7.5
1/8"	3	3/8"	9
3/16"	5	9/16"	15
1/4"	6	3/4"	18
5/16"	8	1"	24
3/8"	9	1-1/8"	27
7/16"	11	1-1/4"	33
1/2"	12	1-1/2"	36
9/16"	14	1-3/4"	42
5/8"	16	2"	48
3/4"	18	2-1/4"	54
7/8"	22	2-3/4"	66
1"	24	3"	72



Halyard Selection (For Main, Jib/Genoa, & Spinnaker Halyards)

Size	Cruiser	Cruiser/Racer	High Tech Racer
15'	3/16" LS	3/16" LS	1/8" Tech 12 or 1/4" XLS Extra
20'	1/4" XLS	1/4" XLS, XLS Extra or Warpspeed	1/4" WarpSpeed, Validator II, Ultra-Tech, AmSteel, 3/16" AmSteel-Blue, Tech 12, Lightning Rope
25'	5/16" XLS	5/16" XLS, XLS Extra or Warpspeed	1/4" WarpSpeed, Validator II, Ultra-Tech, AmSteel, 3/16" AmSteel-Blue, Tech 12, Lightning Rope
30'	3/8" XLS	3/8" XLS, XLS Extra or Warpspeed	5/16" WarpSpeed, Validator II, Ultra-Tech, AmSteel, 1/4" AmSteel-Blue or Tech 12
35'	7/16" XLS	7/16" XLS, XLS Extra or Warpspeed	3/8" WarpSpeed or Validator II, 5/16" Ultra-Tech or AmSteel, 1/4" AmSteel-Blue, Tech 12, Lightning Rope
40'	1/2" XLS	1/2" XLS, XLS Extra or Warpspeed	3/8" WarpSpeed or Validator II, 5/16" Ultra-Tech or AmSteel, 1/4" AmSteel-Blue, Tech 12, Lightning Rope
45'	1/2" XLS	5/8" XLS, XLS Extra or Warpspeed	3/8" WarpSpeed or Validator II, 5/16" Ultra-Tech or AmSteel, 1/4" AmSteel-Blue, Tech 12, Lightning Rope
50'	5/8" XLS	5/8" XLS Extra or 7/16" WarpSpeed	7/16" WarpSpeed, Validator II, Ultra-Tech or 3/8" AmSteel, 5/16" AmSteel-Blue, Tech 12, Lightning Rope

NOTE: The high tech racer may wish to break down the halyards more specifically and in the same diameters as follows:

Main: Validator 12; UltraTech
 Spinnaker: WarpSpeed; XLS Extra
 Jib: WarpSpeed; Validator SKB, Validator 12

Main Sheet Selection (End of Boom Sheeting)

Size	Cruiser	Cruiser/Racer	High Tech Racer
15'	1/4" LS or Trophy	1/4" XLS or XLS Extra	1/4" WarpSpeed, Apex or 3/16" Ultra-Tech
20'	5/16" LS or Trophy	5/16" XLS or XLS Extra	1/4" WarpSpeed, Apex or 3/16" Ultra-Tech
25'	5/16" LS or Trophy	5/16" XLS or XLS Extra	1/4" WarpSpeed, Apex or Ultra-Tech
30'	3/8" LS or Trophy	3/8" XLS or XLS Extra	5/16" WarpSpeed, Apex or Ultra-Tech
35'	7/16" LS or Trophy	7/16" XLS or XLS Extra	5/16" Ultra-Tech or 3/8" WarpSpeed, Apex
40'	1/2" LS or Trophy	1/2" XLS or XLS Extra	3/8" WarpSpeed, Apex or Ultra-Tech
45'	1/2" LS or Trophy	5/8" XLS or 1/2" XLS Extra	7/16" WarpSpeed, Apex or Ultra-Tech
50'	5/8" LS or Trophy	5/8" XLS or 1/2" XLS Extra	7/16" WarpSpeed, Apex or Ultra-Tec

Spinnaker Sheets

Size	Cruiser	Cruiser/Racer	High Tech Racer
15'	1/4" LS	1/4" Ultra-Lite	1/4" Ultra-Lite or 3/16" Ultra-Tech or 1/4" WarpSpeed
20'	1/4" LS	1/4" Ultra-Lite or XLS Extra	1/4" Ultra-Lite or 3/16" Ultra-Tech or 1/4" WarpSpeed
25'	5/16" LS	5/16" Ultra-Lite or XLS Extra	5/16" Ultra-Lite or 1/4" Ultra-Tech or WarpSpeed
30'	3/8" LS	3/8" Ultra-Lite or XLS Extra	3/8" Ultra-Lite or 5/16" Ultra-Tech or WarpSpeed
35'	7/16" LS	3/8" Ultra-Lite or XLS Extra	3/8" Ultra-Lite or 5/16" Ultra-Tech or WarpSpeed
40'	1/2" LS	1/2" XLS or 7/16" XLS Extra	7/16" XLS Extra or 3/8" Ultra-Tech or WarpSpeed
45'	1/2" LS	1/2" XLS or 7/16" XLS Extra	1/2" XLS Extra or 3/8" Ultra-Tech or WarpSpeed
50'	5/8" LS	1/2" XLS or XLS Extra	1/2" XLS Extra or 7/16" Ultra-Tech or WarpSpeed

Jib/Genoa Sheet Selection

Size	Cruiser	Cruiser/Racer	High Tech Racer
15'	1/4" Trophy	1/4" XLS	1/4" WarpSpeed
20'	1/4" Trophy	1/4" XLS	1/4" WarpSpeed
25'	5/16" Trophy or LS	5/16" XLS or XLS Extra	1/4" WarpSpeed
30'	3/8" Trophy or LS	3/8" XLS or XLS Extra	1/4" WarpSpeed
35'	7/16" Trophy or LS	7/16" XLS or XLS Extra	5/16" WarpSpeed
40'	1/2" Trophy or LS	1/2" XLS or XLS Extra	3/8" WarpSpeed
45'	1/2" LS	5/8" XLS or 1/2" XLS Extra	3/8" WarpSpeed
50'	5/8" LS	5/8" XLS or 1/2" XLS Extra	7/16" WarpSpeed

Spinnaker Guy Selection

Size	Cruiser	Cruiser/Racer	High Tech Racer
15'	N/A	1/4" XLS	1/4" WarpSpeed
20'	N/A	1/4" XLS	1/4" WarpSpeed or 3/16" Validator II
25'	N/A	5/16" XLS or XLS Extra	1/4" WarpSpeed or Validator II
30'	3/8" XLS	3/8" XLS Extra	5/16" WarpSpeed or Validator II
35'	7/16" XLS	7/16" XLS Extra	5/16" WarpSpeed or Validator II
40'	1/2" XLS	1/2" XLS Extra	3/8" WarpSpeed or Validator II
45'	5/8" XLS	5/8" XLS Extra	7/16" WarpSpeed or Validator II
50'	3/4" XLS	7/16" WarpSpeed	7/16" WarpSpeed or Validator II

Control Lines Selection (For Topping Lifts, Fore Guys, Boom Vangs & Cunninghams)

Size	Cruiser	Cruiser/Racer	High Tech Racer
15'	3/16" LS	3/16" XLS	1/4" WarpSpeed
20'	1/4" LS	1/4" XLS or XLS Extra	1/4" WarpSpeed
25'	1/4" LS	1/4" XLS or XLS Extra	1/4" WarpSpeed or 3/16" Validator II
30'	5/16" LS	5/16" XLS or XLS Extra	1/4" WarpSpeed or 3/16" Validator II
35'	5/16" LS	5/16" XLS or XLS Extra	1/4" WarpSpeed or Validator II
40'	3/8" LS	3/8" XLS or XLS Extra	5/16" WarpSpeed or Validator II
45'	7/16" LS	3/8" XLS or XLS Extra	5/16" WarpSpeed or Validator II
50'	1/2" LS	7/16" XLS or XLS Extra	3/8" WarpSpeed or Validator II

Note: For any multiple purchase control lines, i.e. travellers, jib car leads etc. Apex would be the choice.



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