

LINE SELECTION GUIDE

2024







So many different ropes — need a little help choosing?

Samson offers a large variety of ropes specifically designed for use as running rigging. Each is engineered to perform superbly under a particular set of circumstances. The cause may seem intimidating. Armed with a little knowledge and an accurate assessment of your sailing needs, the choice becomes clear.

Accurately assess your working load

Formulas for sheet loads are available in the back of this brochure but consider the following:

Halyard loads are best determined by your rigger. For sheets, halyards, or control lines, anticipated loads are considered workin loads. The standard working load for any Samson rope is 20% of the rated break strength.

For example, the total load for an end-of-boom mainsheet going through a four-purchase sheave system may be calculated at 900 lbs. Factoring in a 20% working load, the rope's break strength needs to be five times the working load, or 4,500 lbs. for this application.

Synthetic fibers: What are the differences?

Nylon was the first synthetic fiber widely used in ropes. Reasonably strong (much stronger than the natural fibers it replaced), nylon is still used in dock and anchor lines where its excellent elasticity allows it to absorb shock loads.

The introduction of polyester fiber allowed rope manufacturers to build ropes that were as strong as nylon, but with much less stretch and wet-strength loss. Because it has excellent grip, it works well on winches. Polyester ropes, particularly polyester double braids, became the standard against which all ropes were measured. Polyester is still regarded as an excellent fiber for many marine applications and is widely used for covers on high-performance, or high-modulus double braids.

High-modulus fibers: Which one, for what, and why?

There are several modern high-modulus fibers, each with a unique set of characteristics. The challenge of the rope designer is to match these characteristics with the unique performance requirements of the application for which they are designing.

High-modulus polyethylene (HMPE) fiber has a particularly well balanced set of characteristics that allow it to be used in a variety of applications. Extremely lightweight with ultra-high strength, very low stretch, and excellent abrasion, cut, and UV resistance, it is well-suited for use in halyards, control lines, and sheets.

Other high-modulus fibers include aramid fibers that blend very high strength, low stretch, and abrasion resistance with extreme heat resistance; liquid crystal polymer (LCP) fibers; and PBO fibers, which offer the highest strength of all the high-modulus fibers; however, it must be protected from UV light. These are all exceptionally low-creep fibers.

In some cases, Samson blends fibers to take advantage of the relative properties of each of the components. See our product descriptions for more information.

Class I and Class II ropes: What are they?

Samson ropes are classified into two main categories based on fiber type. Ropes manufactured using the traditional fibers of nylon, polyester, and olefin are categorized as Class I. Those ropes, made in whole or in part with any of the high-modulus fibers, are categorized as Class II.

Double braids and single braids: What's the difference?

Samson invented the double braid in the late 1950s, when nylon was still the king of synthetic fibers. This construction incorporates a braided core within a braided cover, each carrying an equal percentage of the total load. This type of construction is common to lines that use the more traditional synthetic fibers like polyester, olefin, and nylon. In addition to carrying up to one-half of the load, the cover serves to protect the core from abrasion or ultraviolet degradation, to provide grip on winches or in clutches and stoppers, and to provide protection from friction-generated heat.

For applications that require higher strength and lighter weight than traditional Class I fibers provide, you will look to a core-dependant double braid. In this construction, the core is made from Class II fibers and serves as the strength member while the cover is typically made of Class I fibers.

Single braids are ropes designed without a separate core. Samson manufactures a wide variety of single braids. For sailing applications, the most common single braid is a 12-strand line. Where necessary or desired, covers can be added to single braids to protect them from exposure to heat, abrasion, or cutting while in use.

Alternately, a sailor may opt to strip the cover from a double braid in order to save additional weight aloft for halyard applications. The cover remains intact in areas on the rope where the rope is cleated or winched.

Splicing techniques: Why is knowing the class of my line important?

Splicing techniques are different between Class I and Class II ropes and reflect the differences in strengths and grip between the two groups. It is absolutely critical to use the correct splice for the class of rope being used. The product specifications include rope construction, class and recommended splicing technique.

>> LINE SELECTION GUIDE

Racing or cruising, Samson makes a line for every application

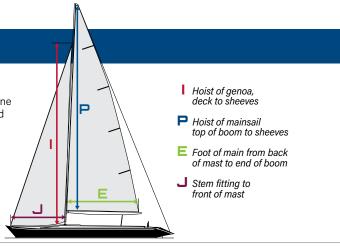
Sheets, halyards, and control lines all require different characteristics in strength and stretch. In these charts, you'll find a Samson line engineered for your size boat, the type of sailing you do, and its function in your rig. For sheets, use your sail plan and the sheet load formula provided to 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 multi-hull vessels):

(windspeed) $^2 \times .004 \times$ (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 = $1/2J \times I$ mainsail = $1/2E \times P$



BREAK STRENGTH VS. ELASTIC STIFFNESS

When selecting a sailing line, the most commonly cited specification—break strength—is often NOT the most critical. For nearly all applications on a recreational sailboat, the strength of modern lines far exceeds both the load that it will experience and the strength of the hardware connected to it. Other characteristics, such as size, hand, weight, coefficient of friction, and flexibility are more important criteria for selection. Of these—elastic stiffness, or stretchiness of the line—is most critical.

Elastic stiffness is the resistance of a line to stretch under load. This is determined by the size, material, and construction of the line; and this is what sailors care about, because it impacts the way the rope handles. Before we can define the elastic stiffness of a rope, we must define one more thing: strain. Strain is the percentage change in length of an object when under the load. The higher the elastic stiffness, the less a line will elongate under load. In other words, the higher the elastic stiffness, the lower the strain.

What does this mean, and how do we select the optimum stiffness of a line? Lines that control sail camber, such as halyards, outhauls, cunninghams, or jib sheets, benefit most from high stiffness. If, when beating to windward in a fresh breeze with your sail in the ideal trim, you are hit by a puff, the pressure on the sail would increase and thus the load on all the lines controlling that sail shape would increase—causing them to elongate. This elongation increases the depth of the sail camber, increasing both lift and drag on a sail.

There are cases where choosing a line with some stretch (lower elastic stiffness) is beneficial. A boom vang that is able to stretch when a puff hits allows the mainsail to twist and dump power from the head of the sail, thus preventing the boat from being overpowered. Similarly, using a lower stiffness line for a boom preventer is advisable, since it lowers the shock load on hardware and deck fittings.

Samson running and rigging lines allow sailors to select the appropriate lines for the desired elastic stiffness, based on your use and equipment.

ELASTIC STIFFNESS Approximate average in kN (kilonewtons)											
	DIAMETER	2.5 mm 7/64"	3 mm 1/8"	5 mm 3/16"	6 mm 1/4"	8 mm 5/16"	9 mm 3/8"	10 mm 13/32"	11 mm 7/16"	12 mm 1/2"	14 mm 9/16"
S	AmSteel-Blue	330	380	810	1,300	2,100	3,000		3,600	5,100	6,500
BRAID	AmSteel°				1,200	1,900	2,700		3,300	4,600	5,900
BR	Lightning Rope	240	310	720	1,100	1,900	2,600		3,000	4,400	5,600
븼	Tech-12"		290	590	880	1,500	2,000				
SINGLE	Validator-12"	180	310	630	1,100	1,600	2,200		2,700	4,000	4,200
S	Control-DPX				490	740	1,200		1,500	1,900	
DS	WarpSpeed® II				850	1,200	1,700		2,400	2,900	4,400
BRAIDS	MLX3 [®]				570	970		1,500	1,700	1,900	2,500
UBLE	Ultra-Lite*			150	300	550	700				
	XLS3			80	110	190		280	350	390	530
00	Trophy Braid			30	60	90	130		170	260	

HALYARDS ■ Main Halyard Usage: Hoist or lower mainsail **B** Jib/Genoa Halvard Usage: Hoist or lower jib/genoa Spinnaker Halyard Usage: Hoist or lower spinnaker SHEETS ■ Mainsheets Usage: In or out trim of mainsail ■ Jib/Genoa Sheets Usage: In or out trim of jib Spinnaker Sheet Usage: In or out trim of spinnaker Spinnaker Guy Usage: In or out trim of spinnaker pole CONTROL LINES H Topping Lift Usage: Up or down adjustment of spinnaker pole Fore Guy Usage: Downward tensioner for spinnaker pole Boom Vang Usage: Tensioner—usually downward for boom K Cunningham Usage: Tensioner for mainsail

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E	REAKING ST	ren	GTHS	6 Approxi	mate aver	age in po	unds				
	DIAMETER	2.5 mm 7/64"	3 mm 1/8"	5 mm 3/16"	6 mm 1/4"	8 mm 5/16"	9 mm 3/8"	10 mm 13/32"	11 mm 7/16"	12 mm 1/2"	14 mm 9/16"
S	AmSteel [®] -Blue	1,600	2,500	5,400	8,600	13,700	19,600		23,900	34,000	40,500
BRAID	AmSteel [®]				7,400	11,900	16,200		19,300	26,500	33,500
BR	Lightning Rope	1,400	2,100	5,400	7,900	13,500	18,500		20,600	32,000	41,600
븼	Tech-12 [®]		2,800	5,600	8,200	13,000	18,000				
SINGLE	Validator-12	2,000	2,700	5,500	9,400	14,000	19,500		23,500	35,000	43,000
<i>-</i> 0	Control-DPX"				3,700	5,600	9,300		11,000	14,000	
S	WarpSpeed® 3 SD					7,000	9,800		14,000	15,300	22,000
BRAID	WarpSpeed® II				5,100	7,000	9,800		14,000	15,300	22,000
	MLX3 [°]				3,400	4,500		7,700	9,800	12,000	17,200
DOUBLE	Ultra-Lite*			1,200	2,200	2,900	4,400				
00	XLS3 ⁻			1,700	2,400	4,100		6,300	7,300	8,700	11,700
_	Trophy Braid			800	1,400	2,000	3,000		4,000	6,000	

ال	JIB/GENOA SHEETS								
SIZE	CRUISER	CRUISER/RACER	HIGH-TECH RACER						
15'	6mm Control-DPX, Trophy	6mm Control-DPX, XLS3	6mm Control-DPX, WarpSpeed II						
20'	6mm Control-DPX, Trophy	6mm Control-DPX, XLS3	6mm Control-DPX, WarpSpeed I						
25'	8mm Control-DPX, Trophy, XLS3	8mm Control-DPX, MLX3, XLS3	6mm WarpSpeed II 8mm Control-DPX, WarpSpeed 3 SD						
30'	9mm Control-DPX,Trophy 10mm XLS3	9mm Control-DPX 10mm MLX3, XLS3	6mm WarpSpeed I 8mm Control-DPX, WarpSpeed 3 SD						
35'	10mm XLS3 11mm Control-DPX, Trophy	11mm Control-DPX, MLX3, XLS3	8mm WarpSpeed II, WarpSpeed 3 SD 11mmControl-DPX						
40'	12mm Control-DPX, Trophy, XLS3	12mm Control-DPX, MLX3, XLS3	9mm WarpSpeed II, WarpSpeed 3 SD 12mm Control-DPX						
45'	12mm Control-DPX, XLS3	12mm Control-DPX, MLX3	9mm WarpSpeed II, WarpSpeed 3 SD 12mm Control-DPX						
50'	12mm Control-DPX,XLS3	12mm Control-DPX, MLX3	9mm WarpSpeed II, WarpSpeed 3 SD 12mm Control-DPX						

	CONTROL LINES For Topping Lifts, Fore Guys, Boom Vangs & Cunninghams								
SIZE	CRUISER	CRUISER/RACER	HIGH-TECH RACER						
15'	6mm XLS3	5mm AmSteel® 6mm XLS3	5mm AmSteel [®] Blue, Lightning Rope, Tech-12, WarpSpeed II						
20'	6mm Control-DPX, Trophy, XLS3	6mm AmSteel, Control-DPX, MLX3, XLS3	5mm AmSteel [®] Blue, Lightning Rope, Tech-12 6mm Control-DPX, WarpSpeed II						
25'	6mm Control-DPX, Trophy, XLS3	6mm AmSteel, Control-DPX, MLX3, XLS3	5mm AmSteel [®] Blue, Lightning Rope, Tech-12 6mm Control-DPX, WarpSpeed II						
30'	8mm Control-DPX, Trophy, XLS3	8mm AmSteel, Control-DPX, MLX3, XLS3	6mm AmSteel [®] Blue, WarpSpeed II 8mm Control-DPX, WarpSpeed 3 SD						
35'	8mm Control-DPX, Trophy, XLS3	8mm AmSteel, Control-DPX, MLX3, XLS3	5mm AmSteel [®] Blue, Lightning Rope, Tech-12 6mm WarpSpeed II 8mm Control-DPX, WarpSpeed 3 SD						
40'	9mm Control-DPX, Trophy 10mm XLS3	9mm AmSteel, Control-DPX 10mm MLX3, XLS3	6mm AmSteel [®] Blue, Lightning Rope, Tech-12 8mm WarpSpeed II, WarpSpeed 3 SD 9mm Control-DPX						
45'	10mm XLS3 11mm Control-DPX,Trophy	9mm AmSteel® 10mm MLX3, XLS3 11mm Control-DPX	6mm AmSteel [®] Blue, Lightning Rope, Tech-12 8mm WarpSpeed II, WarpSpeed 3 SD 11mm Control-DPX						
50'	12mm Control-DPX, Trophy, XLS3	10mm MLX3, XLS3 11mm AmSteel® 12mm Control-DPX	8mm AmSteel [®] Blue, Lightning Rope, Tech-12 9mm WarpSpeed II, WarpSpeed 3 SD 12mm Control-DPX						

SPINNAKER SHEETS							
SIZE	CRUISER	CRUISER/RACER	HIGH-TECH RACER				
15'	6mm Control-DPX, Trophy, XLS3	6mm Control-DPX, MLX3, Ultra-Lite	6mm Control-DPX, Ultra-Lite, WarpSpeed II				
20'	6mm Control-DPX, Trophy, XLS3	6mm Control-DPX, MLX3, Ultra-Lite	6mm Control-DPX, Ultra-Lite, WarpSpeed II				
25'	8mm Control-DPX, Trophy, XLS3	8mm Control-DPX, MLX3, Ultra-Lite	6mm WarpSpeed II 8mm Control-DPX, WarpSpeed 3 SD, Ultra-Lite				
30'	9mm Control-DPX, Trophy 10mm XLS3	9mm Control-DPX, Ultra-Lite 10mm MLX3	8mm WarpSpeed II, WarpSpeed 3 SD 9mm Control-DPX, Ultra-Lite				
35'	10mm XLS3 11mm Control-DPX, Trophy	9mm Ultra-Lite 10mm MLX3 11mm Control-DPX	8mm WarpSpeed II, WarpSpeed 3 SD 9mm Ultra-Lite 11mm Control-DPX				
40'	11mm Control-DPX 12mm Trophy,XLS3	11mm Control-DPX 12mm MLX3, XLS3	9mm WarpSpeed II, WarpSpeed 3 SD 10mm MLX3 11mm Control-DPX				
45'	12mm Control-DPX, XLS3	12mm Control-DPX, MLX3,XLS3	9mm WarpSpeed II, WarpSpeed 3 SD 10mm MLX3 12mm Control-DPX				
50'	12mm Control-DPX	12mm Control-DPX, MLX3, XLS3	11mm WarpSpeed II, WarpSpeed 3 SD 12mm Control-DPX, MLX3				

HALYARDS For Main, Jib/Genoa, & Spinnaker Halyards							
SIZE	CRUISER	CRUISER/RACER	HIGH-TECH RACER				
15'	6mm XLS3	6mm XLS3	3mm Tech-12 6mm MLX3, WarpSpeed II				
20'	6mm XLS3	6mm MLX3, XLS3, WarpSpeed II	5mm AmSteel®Blue, Tech-12, Lightning Rope, Validator-12 6mm WarpSpeed II, AmSteel®				
25'	8mm XLS3	6mm WarpSpeed II 8mm MLX3, XLS3	5mm AmSteel [®] Blue, Tech-12, Lightning Rope, Validator-12 6mm WarpSpeed II, AmSteel [®]				
30'	10mm XLS3	8mm WarpSpeed II 10mm MLX3, XLS3	6mm AmSteel [®] Blue, Tech-12, Lightning Rope, Validator-12 8mm WarpSpeed II, WarpSpeed 3 SD, AmSteel [®]				
35'	10mm XLS3	9mm WarpSpeed II 10mm MLX3, XLS3	6mm AmSteel Blue, Tech-12, Lightning Rope, Validator-12 8mm WarpSpeed II, WarpSpeed 3 SD				
40'	12mm XLS3	9mm WarpSpeed II 12mm MLX3, XLS3	6mm AmSteel [®] Blue, Tech-12, Lightning Rope, Validator-12 8mm WarpSpeed II, WarpSpeed 3 SD, AmSteel [®]				
45'	12mm XLS3	11mm WarpSpeed II 12mm MLX3	6mm AmSteel [®] Blue, Tech-12, Lightning Rope, Validator-12 8mm AmSteel [®] 9mm WarpSpeed II, WarpSpeed 3 SD				
50'	10mm MLX3	11mm WarpSpeed II 12mm MLX3	8mm AmSteel [®] Blue, Tech-12, Lightning Rope, Validator-12 9mm AmSteel [®] 11mm WarpSpeed II, WarpSpeed 3 SD				

NOTE: The high-tech racer may wish to break down the halyards more specifically and in the same diameters as follows: Main: Validator-12; Spinnaker: WarpSpeed II, WarpSpeed 3 SD

MAINSHEETS End of Boom Sheeting								
SIZE	CRUISER	CRUISER/RACER	HIGH-TECH RACER					
15'	6mm Control-DPX, Trophy, XLS3	6mm Control-DPX, MLX3, XLS3, Ultra-Lite	6mm Control-DPX, WarpSpeed II					
20'	8mm Control-DPX, Trophy, XLS3	8mm Control-DPX, MLX3, XLS3, Ultra-Lite	6mm WarpSpeed II 8mm Control-DPX, WarpSpeed 3 SD					
25'	8mm Control-DPX, Trophy, XLS3	8mm Control-DPX, MLX3, XLS3, Ultra-Lite	6mm WarpSpeed II 8mm Control-DPX, WarpSpeed 3 SD					
30'	8mm Control-DPX 9mm Trophy 10mm XLS3	8mm Control-DPX 10mm MLX3, XLS3	8mm Control-DPX, WarpSpeed II, WarpSpeed 3 SD					
35'	8mm Control-DPX 10 mm XLS3 11mm Trophy	8mm Control-DPX 10mm MLX3, XLS3	8mm Control-DPX 9mm WarpSpeed II, WarpSpeed 3 SD					
40'	11mm Control-DPX 12mm Trophy, XLS3	11mm Control-DPX 12mm MLX3, XLS3	8mm Control-DPX 9mm WarpSpeed II, WarpSpeed 3 SD					
45'	11mm Control-DPX 12mm Trophy, XLS3	11mm Control-DPX 12mm MLX3	11mm Control-DPX, WarpSpeed II, WarpSpeed 3 SD					
50'	12mm Control-DPX 16mm Trophy	12mm Control-DPX, MLX3	11mm WarpSpeed II, WarpSpeed 3 SD 12mmControl-DPX					

SPII	SPINNAKER GUYS							
SIZE	CRUISER	CRUISER/RACER	HIGH-TECH RACER					
15'	N/A	6mm Control-DPX, XLS3	6mm Control-DPX, WarpSpeed II					
20'	N/A	6mm Control-DPX, XLS3	6mm Control-DPX, WarpSpeed I					
25'	N/A	8mm Control-DPX, MLX3, XLS3	6mm WarpSpeed II 8mm Control-DPX, WarpSpeed 3 SD					
30'	8mm Control-DPX 9mm XLS3	9mm Control-DPX 10mm MLX3	8mm WarpSpeed II, WarpSpeed 3 SD 9mm Control-DPX					
35'	10mm XLS3 11mm Control-DPX	10mm MLX3 11mm Control-DPX	8mm WarpSpeed II, WarpSpeed 3 SD 11mm Control-DPX					
40'	11mm Control-DPX 12mm XLS3	11mm Control-DPX 12mm MLX3	9mm WarpSpeed II, WarpSpeed 3 SD 11mm Control-DPX					
45'	12mm Control-DPX	11mm WarpSpeed II, WarpSpeed 3 SD 12mm Control-DPX	11mm WarpSpeed II, WarpSpeed 3 SD 12mm Control-DPX					
50'	12mm Control-DPX	11mm WarpSpeed II, WarpSpeed 3 SD 12mm Control-DPX	11mm WarpSpeed II, WarpSpeed 3 SD 12mm Control-DPX					

AmSteel®-Blue Product Code: 872

This 12-strand single braid is made from 100% HMPE fiber which provides the maximum strength-to-weight ratio. It is lightweight, floats, and has high abrasion and cut resistance. Cover where winch or rope clutches are used.



FEATURES:

- > Size-for-size, the same strength as wire rope
- > Extremely low stretch
- > Lightweight
- > Floats
- > Superior wear and flex fatigue
- > Torque-free construction
- > Easily spliced
- > UV stabilized

CONSTRUCTION:

12-strand single braid FIBER: HMPE

COLORS:

Blue, some sizes also available by special order in black, gray, green, orange, red, or yellow SPLICE/CLASS:

12-Strand Class II

AmSteel® Product Code: 870

and abrasion.

AmSteel® is a non-rotational rope that yields high strength and low stretch. It is flexible. easily spliced, and resists flex-fatigue



FEATURES:

- > High strength
- > Extremely low stretch
- > Floats
- > Easy to splice
- > Extremely lightweight
- > Wire rope replacement

CONSTRUCTION: 12-strand single braid FIBER:

HMPE

COLORS:

Gray, red, blue, green, orange, and yellow SPLICE/CLASS:

12-Strand Class II

Lightning Rope[™] Product Code: 379 This 12-strand construction blends liquid

crystal polymer (LCP) and HMPE fibers into a reliable, lightweight line with very low stretch and resistance to creep elongation.

weight ratio > Extremely low stretch

FFATURES:

CONSTRUCTION: 12-strand single braid

> High strength-to

FIBER:

LCP-HMPE blend

COLORS:

Black, blue, green, or red

SPLICE/CLASS: 12-Strand Class II

MLX3[™] Product Code: 436

MLX3 is a lightweight, core-dependent line with excellent strength and moderate stretch. The core is coated to match the cover, making the line strippable for greater

weight savings.



MIDNIGHT

FEATURES:

- > High strength
- > Lightweight
- > Moderate stretch
- > Coated core matches cover

CONSTRUCTION: Core-dependent double braid

FIBER (Core/Cover): HMPE blend / Polyester

COLORS: Slate with midnight, ocean, daybreak or dawn tracers and matching cores

SPLICE/CLASS: Double Braid Class II

Ultra-Lite Product Code: 441

Great for light-wind sheets. This lightweight, floating double braid has a 24-strand MFP cover and a blended core of MFP and HMPE.



FEATURES:

- > Floats
- > High strength
- > Low stretch

CONSTRUCTION: Core-dependent double

FIBER (Core/Cover):

HMPE blend / Polypropylene

COLORS: Black, blue, green, or red all with yellow tracers

SPLICE/CLASS:

Double Braid Class II

XLS3[™] Product Code: 435

XLS3 is an update to a classic line now stronger and more responsive with an updated look. Cruising sailors looking for optimal performance will appreciate the low-stretch polyester construction, smooth rendering, and long life of XLS3.



FEATURES:

- > Excellent abrasion resistance
- > Easy to splice
- > Great value using learnings from our elite-level rope

CONSTRUCTION: Double braid

FIBER (Core/Cover): Polyester / Polyester

COLORS:

White with midnight. ocean, daybreak or dawn tracers and solid navy, khaki, and white

SPLICE/CLASS: Double Braid Class I



Tech-12[™] Product Code: 890

This Samthane-coated 12-strand is made with 100% aramid fiber and offers excellent heat resistance, in addition to a high resistance to flex fatique.



FEATURES:

- > Easy to splice
- > Samthane coated
- > Works well around sheaves and winches
- > Excellent heat resistance
- > Non-rotational
- > Negligible creep > Wire rope

replacement CONSTRUCTION:

12-strand single braid

FIBER: Aramid

COLORS: Black, blue, green, or red

SPLICE/CLASS: 12-Strand Class II

Validator-12[™] Product Code: 446

Validator-12 is a 12-strand construction made of 100% LCP. This easy-to-splice, no-creep line is extremely strong and lightweight.



FEATURES:

- > High strength-toweight ratio
- > Extremely low stretch
- > Negligible creep
- > Samthane coated
- > Non-rotational
- > Heat resistant
- > Excellent durability
- > Abrasion resistant
- > Wire rope replacement

CONSTRUCTION: 12-strand single braid

FIBER: LCP

COLORS:

Black, blue, green, or red SPLICE/CLASS: 12-Strand Class II

Control-DPX Product Code: 888

Control-DPX™combines HMPE fiber and Samson's patented DPX™ fiber technology into a strong, lightweight line that is winchand cleat-friendly while being incredibly easy on the hands. It performs well where

winches are required without an added cover, while retaining the great "feel" you want

in a mainsheet or guy. Control-DPX is not recommended for use with self-tailing winches.



FEATURES:

- > High strength
- > Low stretch
- > Solid grip on winch drums
- > Runs through blocks without kinking
- > Easy to handle
- > Lightweight
- > Easy to splice

CONSTRUCTION: 12-strand single braid

FIBER:

HMPE-Polyester blend

COLORS:

White with black, blue, green, red, or white tracers SPLICE/CLASS:

12-Strand Class II

Trophy Braid Product Code: 453

Trophy Braid line has a soft, fuzzy cover that is easy on the hands. This double braid construction has a spun polyester cover and a polyester core.



FEATURES:

- > Easy to hold, wet or dry
- > Holds well in all types of cleats
- > Has a solid grip on winch drums

CONSTRUCTION: Double braid

FIBER (Core/Cover): Polyester / Spun Polyester

COLORS: Black, blue, green, red, or white - all with

a green and red ID SPLICE/CLASS:

Double Braid Class I

WarpSpeed® II Produc The strength member in this double braid is

100% HMPE with a flexible 24-strand polyester cover. Strip the cover to save weight.



FEATURES:

- > High strength
- > Extremely low stretch
- > Lightweight
- > Excellent abrasion resistance

CONSTRUCTION:

Core-dependent double braid FIBER (Core/Cover):

HMPE / Polyester

COLORS:

Variegated beige with black, blue, green, or red and matching cores

SPLICE/CLASS:

Double Braid Class II

WarpSpeed®3 SD

WarpSpeed 3 SD keeps its flexibility and good handling with the addition of the hydrophobic coating. WarpSpeed 3 SD is spliceable, works well with hardware, and has an elastic elongation of only 1.1% at 10% of its breaking strength load.



Product Code: 540 FEATURES:

- > All the features vou love from WarpSpeed II PLUS
- SamsonDrv technology

CONSTRUCTION:

Core-dependent double braid

FIBER (Core/Cover): HMPE / Polyester

COLORS:

Beige with blue or red tracers and matching cores

SPLICE/CLASS:

Double Braid Class II Modified





Dock & Anchor Lines

Whether power or sail, the most frequently used lines aboard are the dock and anchor lines

It's a fact of boating life that, for most of us, our boats spend more time moored than underway. Protect your investment and give yourself a little peace of mind by ensuring that you've got the best dock and anchor lines available.

Is there really a difference?

Yes. All Samson lines are built with 100% premium nylon that provides excellent stretch and flexibility. Nylon's elastic elongation properties help smooth out the surge effects of wakes, waves, wind, or heavy seas, making nylon the perfect fiber for dock and anchor lines. All of Samson's colored dock lines are produced with solution-dyed nylon to prevent bleed or fade.

Consistent quality from the company that moors more vessels than any other

Our recreational marine products are subjected to the same rigorous testing and quality control under which we produce mooring lines and hawsers for some of the world's largest vessels. They are also professionally prespliced, with thimbles included on all anchor lines.

>> DOCK LINES

Choices—because not all boats are the same

Samson manufactures a complete line of double-braided dock lines to suit your vessel, no matter how large or small. All Samson HarborMaster™ dock lines are constructed of 100% nylon. Nylon's elastic elongation helps smooth out the surge effects of wakes, waves, wind or heavy seas. HarborMaster dock lines are pre-spliced with a secure eye in one end and available in a wide range of diameters and lengths.





NAVY BLUE



GOLD/WHITE



WHITE WITH TRACERS

CHECK YOUR LOCAL DEALER FOR COLOR AND SIZE AVAILABILITY.

DOCK LINE SELECTION GUIDE

Strengths	are	approximate	e average	S O	t new	rop

Boat Size	DOCK LINE LENGTH FEET	3/8" (9 mm) 4,900 lb	1/2" (12 mm) 8,200 lb	5/8" (16 mm) 13,500 lb	3/4"** (18 mm) 22,200 lb
15-25 ft	10'	~	~		
26-30 ft	15'	~	~		
31-35 ft	20'	~	~	~	
36-40 ft	25'	~	~	~	
41-50 ft	30'		~	~	
51-60 ft	35'		~	~	
61-75 ft	40'			~	~
61-75 ft	45'				~
61-75 ft	50'			~	~

^{*}For storm conditions upgrade one size and double chafe protection.

CUSTOM DOCK LINES Formulas for calculating

custom dock lines:

Bow Lines = 1-1/2 × Beam

Spring Lines = 3/4 × Length Over All

Stern Lines = 1-1/2 to 2 × Beam

>> ANCHOR LINES

Choices—because not all boats are the same

Available in double braid (HarborMaster) or 3-strand twisted constructions (Pro-Set-3), Samson anchor lines provide excellent strength, energy absorption, and long service life.



HarborMaster" 3-STRAND



Pro-Set-3

Samson anchor lines are shipped with a prespliced high-strength, reinforced captive thimble. Smaller diameters are shipped in convenient, reusable plastic tote boxes. Longer lengths on spools are available. Contact your local Samson dealer for more information.

ANCHOR LINE SELECTION GUIDE

Strengths are approximate averages of new rope.							
Boat Size	HarborMaster™	Pro-Set [™]					
15-25 ft	3/8 in. 4,900 lb	3/8 in. 3,600 lb					
26-30 ft	3/8 in. 4,900 lb	1/2 in. 6,300 lb					
31-35 ft	3/8 in. 4,900 lb	1/2 in. 6,300 lb					
36-40 ft	1/2 in. 8,200 lb	5/8 in. 10,000 lb					
41-50 ft	1/2 in. 8,200 lb	5/8 in. 10,000 lb					
51-60 ft	5/8 in. 13,500 lb						
61-75 ft	3/4 in. 22,200 lb						

ANCHOR LINE LENGTHS Diameter HarborMaster™ Pro-Set" INCHES FEET FEET 3/8 in. 100', 150', 200', 250', 300' 100', 150', 200' 1/2 in. 150', 200', 250', 300' 100', 150', 200', 300'

150', 200', 250', 300'

200', 250', 300'

5/8 in.

^{**3/4&}quot; dock lines are available in black and navy blue only.



Samson Splice Training Kit



Samson Splicing Kit

Comes with a pusher, and 5 aluminum tubular fids (size range 1/4" through 1/2" diameter).

Product Code: 999-0070



Selma Fids

Made from highly polished stainless steel, Selma Fids are patented worldwide. Available in sets only, the Selma Fid may be used to splice hollow braided lines from 1/8" to 9/16," or double braid and 3-strand rope up to 1-1/8."

Product Code: 903

Visit SamsonRope.com for detailed splice instructions, available in video and PDF formats



Lash-It! Product Code: 811

Lash-It! has been called "the sailor's duct tape" because of its multiple uses on any sailboat. A single braid made from HMPE fiber with Samthane urethane coating, Lash-It! offers a high strength-toweight ratio: it is stronger than steel, so light it floats, and does not absorb water. Lash-It! comes in 180' easily dispensed from a plastic tube.

SPECIFICATIONS Available in 180 ft, tubes and 600 ft, spools.

Size Diameter INCHES	Size Diameter MILLIMETER	Strength Average POUNDS	Weight Per 100 ft. POUNDS
1/16 in.	1.75 mm	500 lb	0.12 јь
3/32 in.	2.20 mm	650 lb	0.16 в

MFP Floatline Product Code: 461

Double braid with a multifilament polypropylene cover and floating core. MFP Floatline is yellow with red ID.

SPECIFICATIONS Available in 600 ft, spools

SI LCII ICATIONS Available III 000 IL spools					
Size	Size	Strength	Weight		
Diameter	Diameter	Average	Per 100 ft.		
INCHES	MILLIMETER	POUNDS	POUNDS		
1/4 in.	6 mm	1,700 lb	1.4 јь		
3/8 in.	9 mm	3,200 lb	2.7 _{lb}		
1/2 in.	12 mm	5,200 lb	4.5 _{lb}		
5/8 in.	16 mm	7,400 lb	8.0 lb		



Quik-Splice Product Code: 335

Quik-Splice is a fast-splicing single braid constructed

with high-strength Ultra Blue copolymer olefin fiber. It floats and has high wet and dry abrasion resistance. The Ultra Blue fiber has excellent dielectric properties and provides superior resistance to sunlight degradation.

SPECIFICATIONS Available in 500 ft. spools

Size Diameter INCHES	Size Diameter MILLIMETER	Strength Average POUNDS	Weight Per 100 ft. POUNDS
1/4 in.	6 mm	1,400 в	1.1 _{lb}
5/16 in.	8 mm	2,500 в	1.7 в
3/8 in.	9 mm	3,500 в	2.7 њ
7/16 in.	11 mm	4,600 lb	3.5 в
1/2 in.	12 mm	6,700 в	4.9 в
9/16 in.	14 mm	7,500 в	6.0 в
5/8 in.	16 mm	10,900 в	8.0 в



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.

SPECIFICATIONS Available in 500 ft. spools

Size Diameter INCHES	Size Diameter MILLIMETER	Strength Average POUNDS	Weight Per 100 ft. POUNDS
5/64 in.	2 mm	230 lb	0.20 _{lb}
1/8 in.	3 mm	600 lb	0.50 р
5/32 in.	4 mm	1,000 lb	0.80 _{lb}
3/16 in.	5 mm	1,200 lb	1.4 _{1b}
1/4 in.	6 mm	2,200 lb	1.8 lb
9/32 in.	7 mm	2,800 lb	2.3 lb
5/16 in.	8 mm	3,500 lb	3.0 lb
3/8 in.	9 mm	4,300 lb	3.8 lb

TECH TIP: STRIPPING COVERS



Stripping covers from core-dependent double braids

Many high-performance sailors like to strip the covers from core-dependent double braids to save weight, but it is important to leave the cover intact wherever the line needs to be cleated, worked on a winch, or through a rope clutch or stopper. Complete instructions for stripping covers are available on our website at SamsonRope.com



TECH TIP: HALYARDS

Upgrade Your Halyards

Have you ever had a difficult time furling your jib when the breeze picked up? Many times, this is due to an old halyard that is stretching. This causes your jib to sag at the luff, and keeps the furler from spinning freely.

Upgrade your halyards to any of Samson's low-stretch, lightweight, high-strength options, and watch your jib furl easier under all conditions.



WHY SAMSON?

People and technology make the difference

Chances are you have seen Samson synthetic lines at work all around you. For more than 140 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. So where's the advantage for you? When you buy Samson, you are getting a lot more than a rope. Our all-inclusive package of technology, products, manufacturing excellence, and experience provide our customers peace of mind.

So whether you're looking for new sheets to trim your composite genoa or replacing the halyards on a traditional schooner, look for Samson. It assures you of performance you can depend on, anytime, anyplace.

- > TECHNOLOGY Staffed with dedicated scientists and application engineers, Samson's R&D department is dedicated to problem solving, and leads the industry in the development of lighter, stronger, more durable ropes. Equally important to product innovation is our ability to stand confidently behind our products with accurate, reliable product specifications based on rigorous testing and measuring.
- PRODUCTS Samson products are considered state of the art by sailors around the world. Samson has pioneered the use of new synthetic fibers, unique constructions, and coatings to improve the service life of ropes, reduce weight, reduce snagging, enhance abrasion resistance, and make splicing easier.
- MANUFACTURING Samson's standards of manufacturing guarantee a quality product every time. Our manufacturing plants, in Lafayette, Louisiana and Ferndale, Washington are both ISO certified and utilize LEAN manufacturing principles.
- EXPERIENCE When you sail with Samson, your boat carries the legacy of our 140+ years' experience providing rope to diverse industries. Known for excellence and quality, we have the experience, integrity, and reliability you can get only from The Strongest Name in Rope.





Samson App

Available for Android, iOS, and Windows, the Samson app brings you the latest in rope maintenance, innovation, and technology. Now it's easier than ever to track the condition of your rope while you are in the field.

The new and improved Samson App allows users to:

- > take the guesswork out of what to inspect.
- > pinpoint and document the exact positioning and severity of damaged ropes.
- easily align rope condition to Samson retirement guidelines.
- > reduce time with automated reporting.
- make informed decisions based on inspection results.

Find it on the app store!

TRADEMARK NOTICES:

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2090 Thornton Street Ferndale, WA 98248 USA

Tel 01.360.384.4669 Fax 01.360.384.0572 **SamsonRope.com**