

COMMERCIAL MARINE PRODUCT GUIDE




samson

THE STRONGEST NAME IN ROPE

SAMSON COMMERCIAL MARINE PRODUCT SPECIFICATIONS



AmSteel-Blue 6	AS-78 7	DPX-75 18	Force-8 14	Fusion-12 8	HTP-12 22	Neutron-8 15	Neutron-12 9	Premium Polyester-8 30	Pro-Set-3 32	Proton-8 16	Q-12 Defender 10	Quantum-8 17	Quantum-12 11	Quantum-X 12	RP-12 Nylon 23
															

LINE SELECTION

Not an Off-the-Shelf Decision

A number of factors should be considered when selecting a rope for commercial marine applications: intended use or application, potential for abrasion, surface preparation, rope design/construction, chafe protection, proper installation procedures, inspection schedule, and retirement criteria. Samson's team of experts is available to assist you to guarantee that there is a comprehensive understanding of each of these considerations.

This is the best approach to ensuring a long service life and mitigating unnecessary failure.

FOR ASSISTANCE

Contact your Samson technical representative

- > Email: CustServ@SamsonRope.com
- > Phone: +1.360.384.4669 (7:30 am – 4:30pm PST)
- > Web: SamsonRope.com
Resources & Literature section has case studies, technical bulletins, videos, and more

PRODUCT SELECTION GUIDES



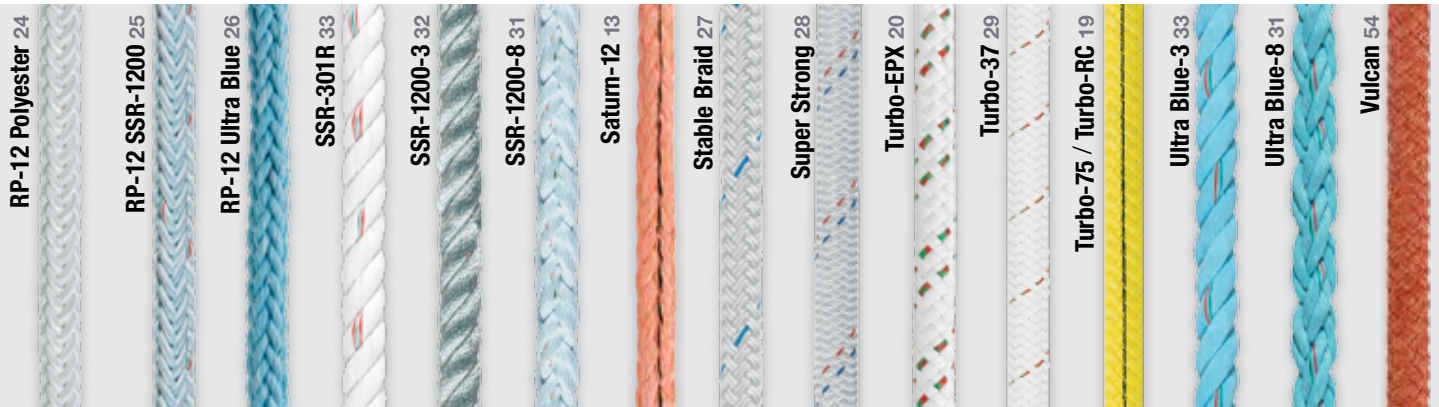
Available from your
Samson representative
or via download at
SamsonRope.com

Commercial Fishing PAGES 35–42

Chafe Gear PAGES 43–47

Hardware PAGES 48–51

Accessories PAGES 52–55



SAMSON PRODUCT SELECTION MATRIX

- = Class II (high-performance fiber content)
- = Class I (traditional fiber content)

CLASS II

High-performance fiber content

PRODUCT NAME	FAMILY CODE	PAGE	Emergency Pendant	First As- Tow Sys	General Working	Stopper	Pendant	Primary Non-jacketed	Primary Jacketed	Secondary	Barge Working	Barge	Face, V- Barge	Floating Barge	H-Bitt	Lock L	Mainlin	Messenger	
AmSteel®Blue	872	6		●	●			●					●				●	●	
AS-78™	814	7		●	●			●					●				●	●	
DPX™75	865	18			●				●										
Force-8™	871	14			●			●											
Fusion-12™	846	8			●			●		●							●		
Neutron-8™	867	15		●	●												●		
Neutron-12™	842	9		●													●		
Proton-8™	830	16			●			●		●	●				●		●		
Q-12 Defender™	862	10			●			●		●									
Quantum-8™	863	17			●			●			●		●		●		●		
Quantum-12™	873	11			●			●		●		●			●		●		
Quantum-X™	847	12			●			●		●		●	●		●		●		
Saturn-12™	882	13											●				●		
Tech-12™	890	53				●													
Turbo-75™/Turbo-RC™	864/861	19							●				●				●		
Turbo-EPX™	886	20							●								●		
Vulcan™	893	54	●									●							

CLASS I

Traditional fiber content

Traditional fiber content			MOORING							TUG							
HTP-12™	703	22			●		●								●		
Premium Polyester-8™	258	30			●		●			●				●			
Pro-Set-3™	170	32			●					●							
RP-12 Nylon™	323	23			●		●			●							
RP-12 Polyester™	402	24			●		●			●				●		●	
RP-12 SSR-1200™	416	25			●		●	●		●	●			●		●	●
RP-12 Ultra Blue™	333	26		●	●			●		●	●		●				●
SSR-301R™	226	33								●					●		
SSR-1200-3™	220	32			●					●	●						
SSR-1200-8™	263	31			●		●	●		●	●			●			
Stable Braid™	506/806	27			●					●							
Super Strong™	472	28			●		●			●							
Tenex-TEC™	825	53				●											
Turbo-37™	704	29														●	
Ultra Blue-3™	130	33			●					●	●		●				●
Ultra Blue-8™	252	31		●	●			●		●	●						

				OFFSHORE						
	Pendants	Shock Lines	Winch Lines	Lifting Slings	Synthetic Extension Pendants	Winch Lines	Working Lines	CONSTRUCTION	DB = Double Braid CD = Core-Dependent Double Braid 3-S = 3-Strand 8-S = 8-Strand 8x3 = 8x3 Strand 12-S = 12-Strand 12x3 = 12x3 Strand	
									PRODUCT NAME	FIBER (Core/Cover)
	●		●	●	●	●	●	12-S	AmSteel-Blue	Dyneema®
	●		●	●	●	●	●	12-S	AS-78	Dyneema®
								CD	DPX-75	Dyneema®/Dyneema®Polyester Blend
			●					8x3	Force-8	Dyneema®
	●		●					12-S	Fusion-12	Dyneema®Polyester Blend
			●	●		●	●	8x3	Neutron-8	Dyneema®
			●	●		●	●	12x3	Neutron-12	Dyneema®
			●					8-S	Proton-8	Dyneema®Polyester Blend
								12-S	Q-12 Defender	Dyneema®Polyester-Nylon Blend
	●		●	●		●	●	8-S	Quantum-8	Dyneema®Polyester Blend
	●		●	●		●	●	12-S	Quantum-12	Dyneema®Polyester Blend
								12-S	Quantum-X	Dyneema®Polyester Blend
	●		●					12-S	Saturn-12	Dyneema®
								12-S	Tech-12	Technora®
	●		●		●	●		CD	Turbo-75/Turbo-RC	Dyneema®/Dyneema®
	●		●		●	●		CD	Turbo-EPX	Dyneema®/Polyester
								CD	Vulcan	Technora®/Technora®

DB = Double Braid
 CD = Core-Dependent Double Braid
 3-S = 3-Strand
 8-S = 8-Strand
 8x3 = 8x3 Strand
 12-S = 12-Strand
 12x3 = 12x3 Strand

ROPE CLASSIFICATION & SPLICING

Class I rope constructions consist of traditional fibers such as olefin, nylon, and polyester. Class II rope constructions consist of high modulus fibers such as Dyneema®, Technora®, and Vectran®. It is absolutely critical that the proper splicing technique be used when splicing Class II ropes. Refer to the Samson Splicing Manual, Splicing Instruction DVDs, or SamsonRope.com for full details on the appropriate splice for your rope.

				OFFSHORE						
	●	●		●	●	●	●	12-S	HTP-12	Polyester
	●		●					8-S	Premium Polyester-8	Polyester
	●	●	●					3-S	Pro-Set-3	Nylon
		●		●			●	12-S	RP-12 Nylon	Nylon
		●		●			●	12-S	RP-12 Polyester	Polyester
		●						12-S	RP-12 SSR-1200	Ultra Blue Polyolefin-Polyester Blend
		●						12-S	RP-12 Ultra Blue	Ultra Blue Polyolefin
								3-S	SSR-301R	Ultra Blue Polyolefin-Polyester Blend
								3-S	SSR-1200-3	Ultra Blue Polyolefin-Polyester Blend
								8-S	SSR-1200-8	Ultra Blue Polyolefin-Polyester Blend
		●						DB	Stable Braid	Polyester/Polyester
	●	●						DB	Super Strong	Nylon/Nylon
								12-S	Tenex-TEC	Polyester
	●		●					CD	Turbo-37	Polyester/Polyester
							●	3-S	Ultra Blue-3	Ultra Blue Polyolefin
								8-S	Ultra Blue-8	Ultra Blue Polyolefin



AMSTEEL®-BLUE

AmSteel®-Blue is a torque-free 12-strand single braid that, size-for-size, is as strong as steel but outlasts wire 3:1, making it an excellent wire rope replacement. At only 1/7th the weight of wire, it is a safe and efficient solution for all marine applications where wire is traditionally used. The combination of Dyneema® fiber and Samthane coating provide abrasion and tension fatigue resistance for superior wear. *AmSteel®-Blue* is easily spliced and inspected.

AmSteel®-Blue is recommended for split-drum winch applications. It is not recommended for use on H-bitts, capstans, or cleats if surging or rendering the rope is required.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	21.8 lb	98,100 lb	24 mm	32.4 kg	44.5 mt	49.4 mt
1-1/16"	3-1/4"	27.5 lb	121,000 lb	26 mm	40.9 kg	54.7 mt	60.8 mt
1-1/8"	3-1/2"	31.9 lb	133,000 lb	28 mm	47.5 kg	60.4 mt	67.1 mt
1-1/4"	3-3/4"	36.2 lb	149,000 lb	30 mm	53.9 kg	67.4 mt	74.8 mt
1-5/16"	4"	41.8 lb	166,000 lb	32 mm	62.2 kg	75.1 mt	83.5 mt
1-3/8"	4-1/8"	45.0 lb	185,000 lb	34 mm	67.0 kg	83.7 mt	93.0 mt
1-1/2"	4-1/2"	51.7 lb	205,000 lb	36 mm	76.9 kg	93.1 mt	103 mt
1-9/16"	4 3/4"	57.6 lb	229,000 lb	38 mm	85.7 kg	104 mt	115 mt
1-5/8"	5"	65.2 lb	255,000 lb	40 mm	97.0 kg	116 mt	128 mt
1-11/16"	5-1/4"	71.0 lb	276,000 lb	42 mm	106 kg	125 mt	139 mt
1-3/4"	5-1/2"	78.4 lb	302,000 lb	44 mm	117 kg	137 mt	152 mt
2"	6"	87.0 lb	343,000 lb	48 mm	129 kg	156 mt	173 mt
2-1/16"	6-1/4"	95.0 lb	376,000 lb	50 mm	141 kg	171 mt	190 mt
2-1/8"	6-1/2"	109 lb	411,000 lb	52 mm	162 kg	187 mt	207 mt
2-1/4"	7"	116 lb	483,000 lb	56 mm	173 kg	219 mt	244 mt
2-1/2"	7-1/2"	148 lb	529,000 lb	60 mm	220 kg	240 mt	267 mt
2-5/8"	8"	167 lb	596,000 lb	64 mm	248 kg	270 mt	300 mt
2-3/4"	8-1/2"	187 lb	662,000 lb	68 mm	278 kg	300 mt	333 mt
3"	9"	206 lb	749,000 lb	72 mm	307 kg	340 mt	377 mt
3-1/8"	9-1/2"	228 lb	828,000 lb	76 mm	339 kg	376 mt	417 mt
3-1/4"	10"	240 lb	906,000 lb	80 mm	357 kg	411 mt	457 mt
3-3/8"	10-1/8"	265 lb	1,008,000 lb	82 mm	394 kg	457 mt	508 mt
3-1/2"	10-1/2"	295 lb	1,053,000 lb	86 mm	439 kg	478 mt	531 mt
3-5/8"	11"	340 lb	1,313,000 lb	88 mm	506 kg	596 mt	662 mt
3-3/4"	11-1/4"	362 lb	1,464,000 lb	92 mm	539 kg	664 mt	738 mt
4"	12"	399 lb	1,637,000 lb	96 mm	594 kg	743 mt	825 mt
4-1/4"	13"	452 lb	1,826,000 lb	104 mm	673 kg	828 mt	920 mt
4-1/2"	13-1/2"	504 lb	2,021,000 lb	110 mm	750 kg	917 mt	1,019 mt
4-5/8"	14"	551 lb	2,216,000 lb	112 mm	820 kg	1,005 mt	1,117 mt
5"	15"	609 lb	2,421,000 lb	120 mm	906 kg	1,098 mt	1,220 mt
5-1/4"	16"	667 lb	2,637,000 lb	128 mm	992 kg	1,196 mt	1,329 mt
5-1/2"	16-1/2"	730 lb	2,865,000 lb	134 mm	1,086 kg	1,299 mt	1,444 mt
5-3/4"	17-1/4"	793 lb	3,099,000 lb	146 mm	1,180 kg	1,406 mt	1,562 mt
6"	18"	819 lb	3,211,000 lb	152 mm	1,219 kg	1,457 mt	1,618 mt
6-1/8"	18-1/2"	861 lb	3,335,000 lb	156 mm	1,281 kg	1,513 mt	1,681 mt
6-1/4"	19"	924 lb	3,581,000 lb	158 mm	1,375 kg	1,624 mt	1,805 mt
6-1/2"	19-1/2"	998 lb	3,838,000 lb	164 mm	1,485 kg	1,741 mt	1,934 mt
6-5/8"	20"	1,029 lb	3,969,000 lb	168 mm	1,531 kg	1,800 mt	2,000 mt

*Spliced strength ** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.

For sizes 3-5/8" (88 mm) diameter and above please see large diameter 12-strand rope considerations on page 9.

PRODUCT CODE: 872

FIBER: Dyneema®

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

SPECIFIC GRAVITY:

0.98 (floats)

SPLICE/CLASS:

12-Strand Class II

ELASTIC ELONGATION:

At percent of break strength

10% 0.46%

20% 0.70%

30% 0.96%

FEATURES AND BENEFITS:

- > Wire rope replacement
- > Size-for-size as strong as wire
- > 1/7th the weight of wire
- > Similar elastic elongation to wire rope
- > Torque-free construction
- > Flexible
- > Easy to inspect and splice in the field
- > Floats
- > Excellent abrasion resistance

APPLICATIONS:

VESSEL MOORING

- > First ashore/emergency tow system
- > General working line
- > Primary mooring line

TUG

- > Face, wing, and barge wires
- > Mainline
- > Messenger line
- > Pendant
- > Winch line

OFFSHORE

- > Lifting sling
- > Synthetic extension pendant
- > Winch line
- > Working line

Additional sizes available. Please contact customer service or see SamsonRope.com for specifications.

WITH
Dyneema®

PRODUCT CODE: 814

FIBER: Dyneema®

COLOR: Blue, black, gray,
green, orange, red, white,
or yellow

SPECIFIC GRAVITY:
0.98 (floats)

SPLICE/CLASS:
12-Strand Class II

ELASTIC ELONGATION:

At percent of break strength

10% 0.46%

20% 0.70%

30% 0.96%

FEATURES AND BENEFITS:

- > 30–40% lighter than aramid ropes of the same strength
- > A size-for-size strength replacement for wire rope at only 1/7th the weight
- > Easy to inspect
- > Enhanced creep properties
- > Excellent abrasion resistance
- > Flexible
- > Floats
- > Highly flex-fatigue resistant
- > Maximum strength-to-weight ratio
- > Non-rotational
- > Samthane coated
- > Similar elastic elongation to wire rope
- > Torque-free construction

APPLICATIONS:

VESSEL MOORING

- > First ashore/emergency tow system
- > General working line
- > Primary mooring line

TUG

- > Face, wing, and barge wires
- > Mainline
- > Messenger line
- > Pendant
- > Winch line

OFFSHORE

- > Lifting sling
- > Synthetic extension pendant
- > Winch line
- > Working line

AS-78—like its counterpart *AmSteel®-Blue*—is a torque-free, 12-strand single braid that yields the maximum in strength-to-weight ratio and, size-for-size, is the same strength as steel, yet it floats. AS-78 is an excellent wire rope replacement with extremely low stretch and superior flex fatigue and wear resistance. It is specially designed for improved service life in applications where creep results from long-term static loads.

AS-78 is recommended for split-drum winch applications. It is not recommended for use on H-bitts, capstans, or cleats if surging or rendering the rope is required.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	21.8 lb	98,100 lb	24 mm	32.4 kg	44.5 mt	49.4 mt
1-1/16"	3-1/4"	27.5 lb	121,000 lb	26 mm	40.9 kg	54.7 mt	60.8 mt
1-1/8"	3-1/2"	31.9 lb	133,000 lb	28 mm	47.5 kg	60.4 mt	67.1 mt
1-1/4"	3-3/4"	36.2 lb	149,000 lb	30 mm	53.9 kg	67.4 mt	74.8 mt
1-5/16"	4"	41.8 lb	166,000 lb	32 mm	62.2 kg	75.1 mt	83.5 mt
1-3/8"	4-1/8"	45.0 lb	185,000 lb	34 mm	67.0 kg	83.7 mt	93.0 mt
1-1/2"	4-1/2"	51.7 lb	205,000 lb	36 mm	76.9 kg	93.1 mt	103 mt
1-9/16"	4 3/4"	57.6 lb	229,000 lb	38 mm	85.7 kg	104 mt	115 mt
1-5/8"	5"	65.2 lb	255,000 lb	40 mm	97.0 kg	116 mt	128 mt
1-11/16"	5-1/4"	71.0 lb	276,000 lb	42 mm	106 kg	125 mt	139 mt
1-3/4"	5-1/2"	78.4 lb	302,000 lb	44 mm	117 kg	137 mt	152 mt
2"	6"	87.0 lb	343,000 lb	48 mm	129 kg	156 mt	173 mt
2-1/16"	6-1/4"	95.0 lb	376,000 lb	50 mm	141 kg	171 mt	190 mt
2-1/8"	6-1/2"	109 lb	411,000 lb	52 mm	162 kg	187 mt	207 mt
2-1/4"	7"	116 lb	483,000 lb	56 mm	173 kg	219 mt	244 mt
2-1/2"	7-1/2"	148 lb	529,000 lb	60 mm	220 kg	240 mt	267 mt
2-5/8"	8"	167 lb	596,000 lb	64 mm	248 kg	270 mt	300 mt
2-3/4"	8-1/2"	187 lb	662,000 lb	68 mm	278 kg	300 mt	333 mt
3"	9"	206 lb	749,000 lb	72 mm	307 kg	340 mt	377 mt
3-1/8"	9-1/2"	228 lb	828,000 lb	76 mm	339 kg	376 mt	417 mt
3-1/4"	10"	240 lb	906,000 lb	80 mm	357 kg	411 mt	457 mt
3-3/8"	10-1/8"	265 lb	1,008,000 lb	82 mm	394 kg	457 mt	508 mt
3-1/2"	10-1/2"	295 lb	1,053,000 lb	86 mm	439 kg	478 mt	531 mt
3-5/8"	11"	340 lb	1,313,000 lb	88 mm	506 kg	596 mt	662 mt
3-3/4"	11-1/4"	362 lb	1,464,000 lb	92 mm	539 kg	664 mt	738 mt
4"	12"	399 lb	1,637,000 lb	96 mm	594 kg	743 mt	825 mt
4-1/4"	13"	452 lb	1,826,000 lb	104 mm	673 kg	828 mt	920 mt
4-1/2"	13-1/2"	504 lb	2,021,000 lb	110 mm	750 kg	917 mt	1,019 mt
4-5/8"	14"	551 lb	2,216,000 lb	112 mm	820 kg	1,005 mt	1,117 mt
5"	15"	609 lb	2,421,000 lb	120 mm	906 kg	1,098 mt	1,220 mt
5-1/4"	16"	667 lb	2,637,000 lb	128 mm	992 kg	1,196 mt	1,329 mt
5-1/2"	16-1/2"	730 lb	2,865,000 lb	134 mm	1086 kg	1,299 mt	1,444 mt
5-3/4"	17-1/4"	793 lb	3,099,000 lb	146 mm	1180 kg	1,406 mt	1,562 mt
6"	18"	819 lb	3,211,000 lb	152 mm	1219 kg	1,457 mt	1,618 mt
6-1/4"	19"	924 lb	3,581,000 lb	158 mm	1375 kg	1,624 mt	1,805 mt
6-1/2"	19-1/2"	998 lb	3,838,000 lb	164 mm	1485 kg	1,741 mt	1,934 mt
6-5/8"	20"	1,029 lb	3,969,000 lb	168 mm	1531 kg	1,800 mt	2,000 mt

*Spliced strength ** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.

For sizes 3-5/8" (88 mm) diameter and above please see large diameter 12-strand rope considerations on page 9.

FUSION-12™

Fusion-12 brings real value to the middle ground between heavy traditional fiber ropes and the lighter, stronger high-performance lines. Blending polyester and Dyneema® fibers, *Fusion-12* bridges the gap between performance and investment for lines made of 100% traditional fibers (such as polyester or nylon) and those made with 100% Dyneema® HMPE fiber. Size-for-size, *Fusion-12* is stronger than similar traditional polyester lines, yet significantly lighter. It has elongation properties between Class I and newer, high-performance products, and better resistance to abrasion compared to traditional polyester lines. *Fusion-12* is a 12-strand single braid that performs well on winches. When replacing traditional polyester lines, it is possible to downsize the diameter of the line on existing equipment and pull the same load while storing much longer lengths.

WHY NON-JACKETED LINES?

Samson recommends its non-jacketed lines in conjunction with specialized chafe protection in high-contact areas as a superior option to a completely jacketed line. Size-for-size, non-jacketed lines are stronger than jacketed lines. They are also easier to inspect and repair, extending the service life over jacketed, polyester ropes. Unlike jacketed lines, which can rupture in the areas that suffer the greatest abrasion and need to be replaced, only the chafe protection on a non-jacketed rope has to be replaced, saving time and money. A 12-strand line, such as *Fusion-12*, with *Saturn Dynalene* chafe protection, provides the ultimate in cut and abrasion resistance, and the rope maintains its strength for the long-term. Samson's *Fusion-12* is lime green with a black longitudinal line that aids in identifying twist.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	25.1 lb	52,100 lb	24 mm	37.3 kg	23.6 mt	26.2 mt
1-1/8"	3-1/2"	30.2 lb	62,100 lb	28 mm	44.9 kg	28.2 mt	31.3 mt
1-1/4"	3-3/4"	35.4 lb	72,000 lb	30 mm	52.7 kg	32.7 mt	36.3 mt
1-3/8"	4-1/5"	44.5 lb	89,200 lb	34 mm	66.2 kg	40.5 mt	45.0 mt
1-1/2"	4-1/2"	53.7 lb	106,000 lb	36 mm	79.9 kg	48.0 mt	53.3 mt
1-5/8"	5"	61.6 lb	121,000 lb	40 mm	91.7 kg	55.1 mt	61.2 mt
1-3/4"	5-1/2"	70.8 lb	138,000 lb	44 mm	105 kg	62.6 mt	69.6 mt
2"	6"	93.3 lb	178,000 lb	48 mm	139 kg	80.5 mt	89.5 mt
2-1/8"	6-1/2"	104 lb	197,000 lb	52 mm	155 kg	89.3 mt	99.2 mt
2-1/4"	7"	115 lb	216,000 lb	56 mm	171 kg	98.1 mt	109 mt
2-1/2"	7-1/2"	141 lb	263,000 lb	60 mm	210 kg	119 mt	133 mt
2-5/8"	8"	156 lb	289,000 lb	64 mm	232 kg	131 mt	146 mt
2-3/4"	8-1/2"	171 lb	316,000 lb	68 mm	254 kg	143 mt	159 mt
3"	9"	204 lb	372,000 lb	72 mm	304 kg	169 mt	187 mt
3-1/4"	10"	232 lb	420,000 lb	80 mm	345 kg	190 mt	211 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 846

FIBER:

Dyneema®Polyester Blend

COLOR: Lime green with
black longitudinal line

SPECIFIC GRAVITY: 1.19

SPLICE/CLASS:

12-Strand Class II

ELASTIC ELONGATION:

At percent of break strength

10%1.20%

20%1.70%

30%2.20%

FEATURES AND BENEFITS:

(when compared to
ropes made of 100%
traditional fibers)

- > Ability to downsize and store longer lengths on winches
- > Easy to inspect
- > Higher strength than lines made of 100% polyester
- > Elongation properties between Class I and newer, high-performance products
- > Lighter than lines made of 100% polyester
- > Reduced elongation
- > Size-for-size, pulls heavier loads than traditional polyester lines

APPLICATIONS:

MOORING

- > General working line
- > Primary mooring line / non-jacketed
- > Secondary mooring line

TUG

- > Mainline
- > Pendant
- > Winch line

WITH
Dyneema®

NEW!**NEUTRON-12™****CLASS II****PRODUCT CODE: 842****FIBER: Dyneema®****COLOR: Yellow****SPECIFIC GRAVITY:****0.98 (floats)****SPLICE/CLASS:****12x3-Strand Class II****ELASTIC ELONGATION:***At percent of break strength*

10% 0.46%

20% 0.70%

30% 0.96%

FEATURES AND BENEFITS:

- > Available in large diameter sizes and long lengths
- > Excellent wear characteristics
- > Extremely low stretch
- > Flex-fatigue resistant
- > Torque-free construction
- > Wire rope replacement

APPLICATIONS:**VESSEL MOORING**

- > First ashore/emergency tow system

TUG

- > Mainline
- > Winch line

OFFSHORE

- > Lifting sling
- > Specialized deepwater lifting
- > Winch line
- > Working line

Neutron-12 is an excellent wire rope replacement with extremely low stretch, superior flex fatigue and increased wear resistance. Braided in a torque-free 12x3 construction, each of the 12 strands is made of 3-strand sub-ropes. This construction provides enhanced bend fatigue performance and abrasion resistance while maximizing the strength-to-weight ratio. *Neutron-12* is size-for-size the same strength as steel-wire rope, yet it's so light, it floats.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
4"	12"	399 lb	1,555,000 lb	96 mm	594 kg	705 mt	743 mt
4-1/4"	13"	452 lb	1,735,000 lb	104 mm	673 kg	787 mt	828 mt
4-1/2"	13-1/2"	504 lb	1,921,000 lb	110 mm	750 kg	871 mt	917 mt
4-5/8"	14"	551 lb	2,105,000 lb	112 mm	820 kg	955 mt	1,005 mt
5"	15"	609 lb	2,300,000 lb	120 mm	906 kg	1,043 mt	1,098 mt
5-1/4"	16"	667 lb	2,506,000 lb	128 mm	992 kg	1,137 mt	1,196 mt
5-1/2"	16-1/2"	730 lb	2,722,000 lb	134 mm	1,086 kg	1,235 mt	1,300 mt
5-3/4"	17-1/4"	793 lb	2,944,000 lb	146 mm	1,180 kg	1,335 mt	1,406 mt
6"	18"	819 lb	3,051,000 lb	152 mm	1,219 kg	1,384 mt	1,457 mt
6-1/8"	18-1/2"	861 lb	3,168,000 lb	156 mm	1,281 kg	1,437 mt	1,513 mt
6-1/4"	19"	924 lb	3,402,000 lb	158 mm	1,375 kg	1,543 mt	1,624 mt
6-1/2"	19-1/2"	998 lb	3,646,000 lb	164 mm	1,485 kg	1,654 mt	1,741 mt
6-9/16"	19-3/4"	1,029 lb	3,771,000 lb	166 mm	1,531 kg	1,711 mt	1,800 mt
6-5/8"	20"	1,066 lb	3,899,000 lb	168 mm	1,586 kg	1,768 mt	1,862 mt
7"	21"	1,145 lb	4,152,000 lb	178 mm	1,704 kg	1,883 mt	1,982 mt
7-1/4"	22"	1,229 lb	4,425,000 lb	184 mm	1,829 kg	2,007 mt	2,113 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

WITH
Dyneema®

CONSIDERATIONS FOR LARGE DIAMETER 12-STRAND ROPE**CONSIDERATIONS AFFECTING STRENGTH****Connecting hardware:**

- > The size of connecting hardware (i.e., thimbles, shackles, links, etc.) relative to the rope can impact rope strength.
- > For grommet and endless loop configurations, Samson recommends a 1.6x multiplier for determining grommet strength. However, this can be greatly affected by hardware size, and attention should be given when calculating theoretical strength values.

For grommets used in static applications, Samson recommends a MINIMUM diameter for connecting hardware of 3x the rope's diameter:

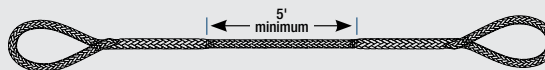
- > This *D/d* ratio affects the grommet and rope strength, and care should be taken in the design and selection of rigging hardware.

CONSIDERATIONS AFFECTING ELONGATION**Elongation characteristics vary for new and broken-in ropes:**

- > For details on elongation characteristics, please contact customer service or engineering.

CONSIDERATIONS FOR ORDER PLACEMENT

- > The minimum order length requirement is 100 feet. Orders between 100 and 300 feet will be accepted with an additional set-up charge.
- > If the required strength is not listed in the charts, please contact customer service for assistance.

CONSIDERATIONS FOR SPLICING & RIGGING

Samson recommends a minimum distance of 5 feet between the ends of each splice:

- > Some applications may require shorter lengths. Careful consideration should be given to ensure that splices do not come into contact with any bearing points under tension.
- > The distance required between splices (clear rope) will impact the minimum sling fabrication length. All hardware and connections should be figured into the overall length of the rope prior to designing the final sling configuration.
- > Rope will increase in diameter in the splice area. This change is on average 1.75x the rope's diameter.

SamsonRope.com

Q-12 DEFENDER™

SAMSON
PATENTED
TECHNOLOGY

Q-12 Defender is a 12-strand line based on Samson's unique, patented reduced recoil technology. When this line is subjected to excessive tension loads, the lower elongating fibers will break first, transferring the load to the remaining specially-designed control strands. This creates an indication of rope failure before the rope completely separates.

Q-12 Defender incorporates Samson's proprietary DPX™ fiber technology on the surface of the rope to provide excellent coefficient of friction properties, while Dyneema® provides high strength, superior abrasion resistance, and low elongation. Q-12 Defender is flexible, UV resistant, lightweight, and does not hockle.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	26.0 lb	58,900 lb	24 mm	38.7 kg	26.7 mt	29.7 mt
1-1/8"	3-1/2"	33.0 lb	79,200 lb	28 mm	49.1 kg	35.9 mt	39.9 mt
1-1/4"	3-3/4"	36.0 lb	89,100 lb	30 mm	53.6 kg	40.4 mt	44.9 mt
1-5/16"	4"	38.0 lb	99,900 lb	32 mm	56.5 kg	45.3 mt	50.3 mt
1-3/8"	4-1/8"	46.0 lb	111,000 lb	34 mm	68.4 kg	50.2 mt	55.8 mt
1-1/2"	4-1/2"	50.0 lb	123,000 lb	36 mm	74.4 kg	55.9 mt	62.1 mt
1-5/8"	5"	55.0 lb	153,000 lb	40 mm	81.8 kg	69.4 mt	77.1 mt
1-3/4"	5-1/2"	82.0 lb	181,000 lb	44 mm	122 kg	82.1 mt	91.2 mt
2"	6"	88.0 lb	205,000 lb	48 mm	131 kg	93.1 mt	103 mt
2-1/8"	6-1/2"	93.0 lb	223,000 lb	52 mm	138 kg	101 mt	112 mt
2-1/4"	7"	124 lb	290,000 lb	56 mm	185 kg	131 mt	146 mt
2-1/2"	7-1/2"	132 lb	318,000 lb	60 mm	196 kg	144 mt	160 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

WITH
Dyneema®

PRODUCT CODE: 862

FIBER: Dyneema®-Polyester-
Nylon Blend

COLOR: Gray

SPECIFIC GRAVITY: 1.04

SPLICE/CLASS:
12-Strand Class II

ELASTIC ELONGATION:
At percent of break strength
10% 0.65%
20% 0.75%
30% 0.90%

FEATURES AND BENEFITS:

- > Reduced recoil property, quantified per Cordage Institute Standard 1502
- > Excellent UV resistance
- > Easy to inspect
- > Easy to splice
- > Meets the requirements of the Canadian National Standard CGSB-40.20-2008
- > High coefficient of friction, great for working off bitts and capstans

APPLICATIONS:

VESSEL MOORING

- > Primary mooring line
- > Secondary mooring line
- > General working line

PRODUCT CODE: 873

FIBER:

Dyneema®Polyester Blend

COLOR: Vivid green, some sizes also available by special order in black, blue, green, orange, or yellow

SPECIFIC GRAVITY:

0.99 (floats)

SPLICE/CLASS:

12-Strand Class II

ELASTIC ELONGATION:

At percent of break strength

10% 0.65%

20% 0.75%

30% 0.90%

FEATURES AND BENEFITS:

- > Wire rope replacement
- > Excellent abrasion resistance
- > High coefficient of friction
- > Flexible
- > Excellent grip
- > Lightweight
- > Floats
- > Easy to handle
- > Easy to inspect
- > Easy to splice

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Primary mooring line
- > Secondary mooring line

TUG

- > Barge tie-up line
- > H-bitt working line
- > Mainline
- > Pendant
- > Winch line

OFFSHORE

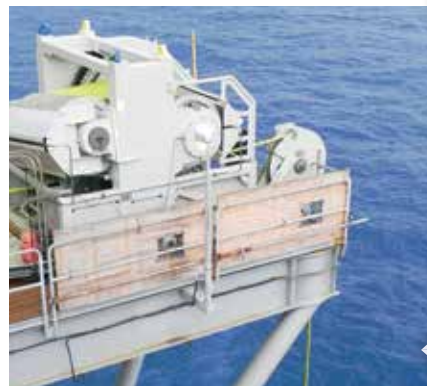
- > Lifting sling
- > Winch line
- > Working line

Quantum-12 is a lightweight, high-strength, floating rope that grips hardware. The patented DPX™ fiber technology provides superior abrasion and cut resistance, but with a higher coefficient of friction than other high modulus polyethylene ropes. The 12-strand construction provides added flexibility, improved handling, and easy splicing. The vivid green Samthane coating provides excellent visibility and additional abrasion resistance.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
3/4"	2-1/4"	11.8 lb	40,800 lb	18 mm	17.6 kg	18.5 mt	20.5 mt
7/8"	2-3/4"	15.2 lb	56,300 lb	22 mm	22.6 kg	25.5 mt	28.4 mt
1"	3"	21.0 lb	74,300 lb	24 mm	31.2 kg	33.7 mt	37.4 mt
1-1/8"	3-1/2"	25.5 lb	94,500 lb	28 mm	37.9 kg	42.9 mt	47.6 mt
1-1/4"	3-3/4"	31.0 lb	118,000 lb	30 mm	46.1 kg	53.5 mt	59.4 mt
1-5/16"	4"	33.0 lb	131,000 lb	32 mm	49.1 kg	59.6 mt	66.2 mt
1-3/8"	4-1/8"	37.5 lb	146,000 lb	34 mm	55.8 kg	66.1 mt	73.5 mt
1-1/2"	4-1/2"	44.7 lb	172,000 lb	36 mm	66.5 kg	78.0 mt	86.6 mt
1-5/8"	5"	50.0 lb	203,000 lb	40 mm	74.4 kg	92.3 mt	103 mt
1-3/4"	5-1/2"	60.8 lb	239,000 lb	44 mm	90.5 kg	108 mt	120 mt
2"	6"	79.4 lb	314,000 lb	48 mm	118 kg	142 mt	158 mt
2-1/8"	6-1/2"	89.6 lb	357,000 lb	52 mm	133 kg	162 mt	180 mt
2-1/4"	7"	100 lb	403,000 lb	56 mm	149 kg	183 mt	203 mt
2-3/8"	7-1/8"	112 lb	453,000 lb	57 mm	167 kg	205 mt	228 mt
2-1/2"	7-1/2"	125 lb	506,000 lb	60 mm	186 kg	229 mt	255 mt
2-5/8"	8"	138 lb	563,000 lb	64 mm	205 kg	255 mt	284 mt
2-3/4"	8-1/2"	155 lb	614,000 lb	68 mm	231 kg	278 mt	309 mt
3"	9"	179 lb	726,000 lb	72 mm	266 kg	329 mt	366 mt
3-1/4"	10"	213 lb	849,000 lb	80 mm	317 kg	385 mt	428 mt
3-5/8"	11"	266 lb	1,050,000 lb	88 mm	396 kg	476 mt	529 mt
4"	12"	324 lb	1,272,000 lb	96 mm	482 kg	577 mt	641 mt
4-1/4"	13"	366 lb	1,428,000 lb	104 mm	545 kg	648 mt	720 mt
4-5/8"	14"	447 lb	1,682,000 lb	112 mm	665 kg	763 mt	848 mt
5"	15"	523 lb	1,956,000 lb	120 mm	778 kg	887 mt	986 mt
5-1/4"	16"	577 lb	2,138,000 lb	128 mm	859 kg	970 mt	1,078 mt
5-1/2"	16-1/2"	634 lb	2,316,000 lb	134 mm	943 kg	1,050 mt	1,167 mt
5-5/8"	17"	656 lb	2,422,000 lb	142 mm	976 kg	1,099 mt	1,221 mt
6"	18"	755 lb	2,703,000 lb	152 mm	1,123 kg	1,226 mt	1,362 mt
6-1/4"	19"	820 lb	2,884,000 lb	158 mm	1,220 kg	1,308 mt	1,453 mt
6-5/8"	20"	922 lb	3,221,000 lb	168 mm	1,372 kg	1,461 mt	1,623 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

For sizes 3-5/8" (88 mm) diameter and above please see large diameter 12-strand rope considerations on page 9.



WITH
Dyneema®

QUANTUM-X™

SAMSON
PATENTED
TECHNOLOGY

QUANTUM-X™—BUILDING ON SUCCESS Samson engineers have taken one of our most popular and dependable working lines, *Quantum-12™*, and added the latest high-performance fiber technology and construction enhancements. The result is the newest addition to our line of high-performance ropes: *Quantum-X*. This 12-strand rope has been engineered for X-tra performance, better snag resistance, higher coefficient of friction, enhanced cyclical bend over sheave (CBOS), and creep performance. It is lightweight, high-strength, flexible, easy to handle and splice, and it floats.

Quantum-X utilizes Dyneema® SK78 fiber, a new fiber based on the same technology that has made Dyneema® high modulus polyethylene (HMPE) fiber the best performing, most consistent fiber for use in rope and cordage products. It also utilizes Samson's patented DPX™ fiber technology. This unique process incorporates a textured fiber on the surface of the high modulus Dyneema® fiber yarns. The result is a rope that maintains the advantages of Dyneema® (extreme strength and light weight, cut and abrasion resistance), and adds a higher coefficient of friction for use where enhanced grip is critical.

A high-visibility orange Samthane coating provides additional abrasion resistance, while a black longitudinal line aids in identifying twist to help mitigate the damage it can cause.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
3/4"	2-1/4"	12.6 lb	43,700 lb	18 mm	18.7 kg	19.8 mt	22.0 mt
7/8"	2-3/4"	16.8 lb	58,200 lb	22 mm	25.0 kg	26.4 mt	29.3 mt
1"	3"	21.6 lb	76,100 lb	24 mm	32.1 kg	34.5 mt	38.4 mt
1-1/8"	3-1/2"	26.4 lb	93,600 lb	28 mm	39.3 kg	42.5 mt	47.2 mt
1-1/4"	3-3/4"	32.7 lb	119,000 lb	30 mm	48.7 kg	53.9 mt	59.9 mt
1-5/16"	4"	64.2 lb	127,000 lb	32 mm	50.9 kg	57.6 mt	64.0 mt
1-3/8"	4-1/8"	38.9 lb	144,000 lb	34 mm	57.9 kg	65.3 mt	72.6 mt
1-1/2"	4-1/2"	45.5 lb	168,000 lb	36 mm	67.7 kg	76.3 mt	84.8 mt
1-5/8"	5"	52.7 lb	196,000 lb	40 mm	78.4 kg	89.0 mt	98.9 mt
1-3/4"	5-1/2"	61.6 lb	232,000 lb	44 mm	91.7 kg	105 mt	117 mt
2"	6"	78.2 lb	301,000 lb	48 mm	116 kg	136 mt	152 mt
2-1/8"	6-1/2"	89.4 lb	344,000 lb	52 mm	133 kg	156 mt	173 mt
2-1/4"	7"	97.8 lb	374,000 lb	56 mm	146 kg	170 mt	189 mt
2-1/2"	7-1/2"	123 lb	488,000 lb	60 mm	183 kg	221 mt	246 mt
2-5/8"	8"	134 lb	532,000 lb	64 mm	199 kg	241 mt	268 mt
2-3/4"	8-1/2"	146 lb	586,000 lb	68 mm	217 kg	266 mt	295 mt
3"	9"	174 lb	701,000 lb	72 mm	259 kg	318 mt	353 mt
3-1/4"	10"	205 lb	833,000 lb	80 mm	305 kg	378 mt	420 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 847

FIBER:

Dyneema®-Polyester Blend

COLOR: Orange with a black longitudinal line

SPECIFIC GRAVITY: 0.99 (floats)

SPLICE/CLASS:

12-Strand Class II

ELASTIC ELONGATION:

At percent of break strength

10% 0.65%

20% 0.75%

30% 0.90%

FEATURES AND BENEFITS:

- > Reduced creep in applications with static load
- > Enhanced abrasion resistance
- > Enhanced grip from patented DPX™ fiber technology
- > High coefficient of friction
- > Samthane coated
- > Snag resistant
- > Easy to handle
- > Easy to inspect
- > Easy to splice
- > Flexible
- > Floats
- > High strength
- > Lightweight

APPLICATIONS:

VESSEL MOORING

- > Primary mooring line
- > Secondary mooring line
- > General working line

TUG

- > Barge tie-up lines
- > Face, wing, and barge wires
- > H-bitt working line
- > Mainline

WITH
Dyneema®

PRODUCT CODE: 882

FIBER: Dyneema®

COLOR: Orange, sizes 13/16" and above have black longitudinal line

SPECIFIC GRAVITY: 0.98 (floats)

SPLICE/CLASS:

For sizes 1/4"–1-1/4"

12-strand Class II

For sizes above 1-1/4"

12-strand Class II Modified

Tuck Bury

ELASTIC ELONGATION:

At percent of break strength

10% 0.46%

20% 0.70%

30% 0.96%

FEATURES AND BENEFITS:

- > Easy to handle
- > Easy to inspect
- > Easy to splice
- > Flexible
- > Floats
- > Lightweight
- > Similar elastic elongation to wire rope
- > Torque-free construction
- > Wire rope replacement

APPLICATIONS:

TUG

- > Face, wing, and barge wires
- > Mainline
- > Pendant
- > Winch line

Since its introduction in 2010, Samson's 12-strand working line, *Saturn-12*, has proven to be one of the longest lasting, most durable marine ropes available, increasing residual strength as much as 15–20% when compared with other HMPE lines and their conventional coatings. Its proprietary coating improves abrasion resistance and has been enhanced for greater UV resistance. In addition, *Saturn-12* is now made with Dyneema® SK78 fiber, the next generation in HMPE fiber technology. SK78 provides improved service life in applications where creep results from long-term static loads. This torque-free, flexible, and easy-to-handle construction is easy to inspect and splice in the field.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1-1/8"	3-1/2"	31.9 lb	133,000 lb	28 mm	47.5 kg	60.4 mt	67.1 mt
1-1/4"	3-3/4"	36.2 lb	149,000 lb	30 mm	53.9 kg	67.4 mt	74.8 mt
1-5/16"	4"	41.8 lb	166,000 lb	32 mm	62.2 kg	75.1 mt	83.5 mt
1-3/8"	4-1/8"	45.0 lb	185,000 lb	34 mm	67.0 kg	83.7 mt	93.0 mt
1-1/2"	4-1/2"	51.7 lb	205,000 lb	36 mm	76.9 kg	93.1 mt	103 mt
1-5/8"	5"	65.2 lb	255,000 lb	40 mm	97.0 kg	116 mt	128 mt
1-3/4"	5-1/2"	78.4 lb	302,000 lb	44 mm	117 kg	137 mt	152 mt
2"	6"	87.0 lb	343,000 lb	48 mm	129 kg	156 mt	173 mt
2-1/8"	6-1/2"	109 lb	411,000 lb	52 mm	162 kg	187 mt	207 mt
2-1/4"	7"	116 lb	483,000 lb	56 mm	173 kg	219 mt	244 mt
2-1/2"	7-1/2"	148 lb	529,000 lb	60 mm	220 kg	240 mt	267 mt
2-5/8"	8"	167 lb	596,000 lb	64 mm	248 kg	270 mt	300 mt
2-3/4"	8-1/2"	187 lb	662,000 lb	68 mm	278 kg	300 mt	333 mt
3"	9"	206 lb	749,000 lb	72 mm	307 kg	340 mt	377 mt
3-1/8"	9-1/2"	228 lb	828,000 lb	76 mm	339 kg	376 mt	417 mt
3-1/4"	10"	240 lb	906,000 lb	80 mm	357 kg	411 mt	457 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

GUIDELINES FOR USING SATURN-12™

Saturn-12 is designed for maximum abrasion resistance, and because of this, it has no grip on a winch, capstan, or bitt. Samson has some recommendations and advice concerning the use of *Saturn-12*.



- 1) If *Saturn-12* will be used on a winch, Samson recommends that a backer line be used. This is a soft line that provides grip on the winch. Connected to the mainline by an eye-to-eye connection, the backer line completely fills the bottom layer of the winch drum, which prevents the load on the mainline from migrating all the way to the winch, causing the line to slip from its termination.
- 2) The 12-strand tuck-bury splice for Class II ropes has been modified for *Saturn-12*. This splice has been tested and gives better results than other splices. This modification must be used on *Saturn-12* products over 1-1/4 inches in diameter. These instructions are available for download at SamsonRope.com.



THE DYNAMIC DUO

The ultimate in abrasion resistance is to use *Saturn-12* with *Saturn Dynalene*. While *Saturn-12* provides internal abrasion resistance, *Saturn Dynalene* protects against external abrasion where *Saturn-12* comes in direct contact with the harsh surfaces on most tug vessels. The combination can extend the life of the towline.

SamsonRope.com

WITH
Dyneema®

FORCE-8™

The unique, patented construction of *Force-8* has a firm cross-section, resulting in reduced compression-flattening and minimal diving on winch drums, while still providing high strength, low weight, and excellent flex-fatigue resistance. *Force-8* is available in long continuous lengths and can be easily inspected for internal and external strand wear. Samthane coating adds to its durability without affecting its flexibility or ease of splicing.

Force-8 is recommended for split-drum or single-drum winch applications. It is not recommended for use on H-bitts, capstans, or cleats if surging or rendering the rope is required.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	21.6 lb	85,100 lb	24 mm	32.1 kg	38.6 mt	42.9 mt
1-1/16"	3-1/4"	25.3 lb	98,200 lb	26 mm	37.6 kg	44.5 mt	49.5 mt
1-1/8"	3-1/2"	29.2 lb	112,000 lb	28 mm	43.4 kg	50.9 mt	56.6 mt
1-1/4"	3-3/4"	33.4 lb	127,000 lb	30 mm	49.7 kg	57.6 mt	64.0 mt
1-5/16"	4"	37.9 lb	143,000 lb	32 mm	56.4 kg	64.7 mt	71.9 mt
1-3/8"	4-1/8"	41.0 lb	152,000 lb	34 mm	61.0 kg	69.0 mt	76.6 mt
1-1/2"	4-1/2"	47.6 lb	176,000 lb	36 mm	70.8 kg	80.0 mt	88.9 mt
1-5/8"	5"	58.5 lb	213,000 lb	40 mm	87.0 kg	96.7 mt	107 mt
1-3/4"	5-1/2"	70.4 lb	253,000 lb	44 mm	105 kg	115 mt	127 mt
2"	6"	83.4 lb	296,000 lb	48 mm	124 kg	134 mt	149 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 871

FIBER: Dyneema®

COLOR: Orange

SPECIFIC GRAVITY:
0.98 (floats)

SPLICE/CLASS:
8x3-Strand Class II

ELASTIC ELONGATION:
At percent of break strength
10%0.70%
20% 0.90%
30%1.20%

FEATURES AND BENEFITS:

- > Wire rope replacement
- > Lightweight
- > Similar elastic elongation to wire rope
- > Torque-free construction
- > Flexible
- > Easy to handle
- > Easy to inspect
- > Easy to splice in the field
- > Floats

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Primary mooring line

TUG

- > Winch line



WITH
Dyneema®

PRODUCT CODE: 867

FIBER: Dyneema®

COLOR: Green

SPECIFIC GRAVITY:
0.98 (floats)

SPLICE/CLASS:
8x3-Strand Class II

ELASTIC ELONGATION:
At percent of break strength
10%0.70%
20%0.90%
30%1.20%

FEATURES AND BENEFITS:

- > Wire rope replacement
- > Retains shape with use
- > Low stretch
- > Flexible
- > UV resistant
- > Durable
- > Easy to inspect
- > Easy to splice in the field
- > Available in long lengths

APPLICATIONS:

VESSEL MOORING

- > First ashore/emergency tow system
- > General working line

TUG

- > Mainline
- > Winch line

OFFSHORE

- > Lifting sling
- > Winch line
- > Working line

Neutron-8 is an excellent floating replacement for large diameter wire rope or chain. The unique patented construction results in an extremely high strength-to-weight ratio with reduced compression and less diving on winch drums. Neutron-8 is ideal for tractor-tug working lines and a variety of specialty deepwater applications where long lengths, high strength, and low weight are critical.

Recommended for split-drum or single-drum winch applications. Not recommended for use on H-bitts, capstans, or cleats if surging or rendering the rope is required.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
2"	6"	95.4 lb	405,000 lb	48 mm	142 kg	184 mt	204 mt
2-1/8"	6-1/2"	101 lb	441,000 lb	52 mm	151 kg	200 mt	222 mt
2-1/4"	7"	114 lb	490,000 lb	56 mm	169 kg	222 mt	247 mt
2-1/2"	7-1/2"	140 lb	596,000 lb	60 mm	209 kg	270 mt	300 mt
2-5/8"	8"	162 lb	652,000 lb	64 mm	241 kg	296 mt	328 mt
2-3/4"	8-1/2"	170 lb	711,000 lb	68 mm	253 kg	322 mt	358 mt
3"	9"	202 lb	835,000 lb	72 mm	301 kg	379 mt	421 mt
3-1/4"	10"	237 lb	998,000 lb	80 mm	353 kg	453 mt	503 mt
3-1/2"	10-1/2"	267 lb	1,091,000 lb	86 mm	397 kg	495 mt	550 mt
3-5/8"	11"	295 lb	1,185,000 lb	88 mm	439 kg	538 mt	597 mt
4"	12"	359 lb	1,422,000 lb	96 mm	534 kg	645 mt	717 mt
4-1/4"	13"	406 lb	1,591,000 lb	104 mm	603 kg	722 mt	802 mt
4-5/8"	14"	480 lb	1,861,000 lb	112 mm	715 kg	844 mt	938 mt
5"	15"	561 lb	2,150,000 lb	120 mm	835 kg	975 mt	1,084 mt
5-1/4"	16"	619 lb	2,353,000 lb	128 mm	921 kg	1,067 mt	1,186 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.



WITH
Dyneema®

PROTON-8™

Proton-8 is a high strength, low weight line that has excellent heat resistance and the grip necessary for use on bitts and capstans. Its firm, flexible, torque-free construction performs well on both single- and split-drum winches.

Proton-8 provides substantially better service life, is almost neutrally buoyant, and has low water absorption for ease and speed of handling during deployment and retrieval. The yellow Samthane coating ensures maximum wear resistance and service life while also making *Proton-8* highly visible.

Proton-8 is designed for use on H-bitts and capstans under surging and rendering conditions.

PRODUCT CODE: 830

FIBER:

Dyneema®Polyester Blend

COLOR: Yellow

SPECIFIC GRAVITY: 1.09

SPLICE/CLASS:

8-Strand Class II

ELASTIC ELONGATION:

At percent of break strength

10% 0.58%

20% 0.87%

30% 0.96%

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	25.0 lb	54,900 lb	24 mm	37.2 kg	24.9 mt	27.7 mt
1-1/8"	3-1/2"	30.5 lb	68,900 lb	28 mm	45.4 kg	31.3 mt	34.7 mt
1-1/4"	3-3/4"	38.5 lb	86,900 lb	30 mm	57.3 kg	39.4 mt	43.8 mt
1-5/16"	4"	41.5 lb	104,000 lb	32 mm	61.8 kg	47.2 mt	52.4 mt
1-3/8"	4-1/8"	46.0 lb	108,000 lb	34 mm	68.4 kg	48.8 mt	54.3 mt
1-1/2"	4-1/2"	55.4 lb	125,000 lb	36 mm	82.4 kg	56.7 mt	63.0 mt
1-5/8"	5"	68.0 lb	140,000 lb	40 mm	101 kg	63.5 mt	70.6 mt
1-3/4"	5-1/2"	74.8 lb	190,000 lb	44 mm	111 kg	86.1 mt	95.7 mt
2"	6"	99.0 lb	238,000 lb	48 mm	147 kg	108 mt	120 mt
2-1/8"	6-1/2"	112 lb	277,000 lb	52 mm	167 kg	126 mt	140 mt
2-1/4"	7"	125 lb	316,000 lb	56 mm	186 kg	143 mt	159 mt
2-3/8"	7-1/8"	140 lb	383,000 lb	57 mm	208 kg	174 mt	193 mt
2-1/2"	7-1/2"	149 lb	396,000 lb	60 mm	222 kg	180 mt	200 mt
2-5/8"	8"	172 lb	436,000 lb	64 mm	257 kg	198 mt	220 mt
2-3/4"	8-1/2"	188 lb	468,000 lb	68 mm	280 kg	212 mt	236 mt
3"	9"	198 lb	542,000 lb	72 mm	294 kg	246 mt	273 mt
3-1/4"	10"	254 lb	628,000 lb	80 mm	378 kg	285 mt	317 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

FEATURES AND BENEFITS:

- > High strength-to-weight ratio
- > Grips winches, bitts, and capstans
- > Heat resistant
- > Low water absorption
- > Torque-free construction
- > Firm, yet flexible
- > Good coefficient of friction
- > Easy to splice in the field

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Primary mooring line
- > Secondary mooring line

TUG

- > Barge and dredge working line
- > H-bitt working line
- > Mainline
- > Winch line



WITH
Dyneema®

PRODUCT CODE: 863

FIBER:

Dyneema®-Polyester Blend

COLOR: Orange

SPECIFIC GRAVITY: 1.00

SPLICE/CLASS:

8-Strand Class II

ELASTIC ELONGATION:

At percent of break strength

10%0.97%

20%1.15%

30%1.29%

Quantum-8 is a lightweight, high-strength, torque-free 8-strand rope that utilizes Samson's patented DPX™ fiber technology, which provides superior abrasion and cut resistance with a higher coefficient of friction than other high modulus polyethylene (HMPE) ropes. It floats, grips on hardware, and has excellent durability. *Quantum-8* has an orange urethane coating for high visibility as well as additional abrasion resistance.

FEATURES AND BENEFITS:

- > Wire rope replacement
- > Abrasion resistant
- > Excellent grip
- > Excellent drum spooling capabilities
- > Compression resistant on winch
- > Lightweight
- > Flexible
- > Retains shape with use
- > Floats
- > High visibility

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Primary mooring line

TUG

- > Barge and dredge working line
- > Face, wing, and barge wires
- > H-bitt working line
- > Mainline
- > Pendant
- > Winch line

OFFSHORE

- > Lifting sling
- > Winch line
- > Working line

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	23.0 lb	57,600 lb	24 mm	34.2 kg	26.1 mt	29.0 mt
1-1/8"	3-1/2"	29.1 lb	76,500 lb	28 mm	43.3 kg	34.7 mt	38.6 mt
1-1/4"	3-3/4"	35.9 lb	103,000 lb	30 mm	53.4 kg	46.5 mt	51.7 mt
1-5/16"	4"	39.7 lb	116,000 lb	32 mm	59.1 kg	52.7 mt	58.5 mt
1-3/8"	4-1/8"	43.5 lb	123,000 lb	34 mm	64.7 kg	55.9 mt	62.1 mt
1-1/2"	4-1/2"	51.8 lb	165,000 lb	36 mm	77.1 kg	74.7 mt	83.0 mt
1-5/8"	5"	60.7 lb	198,000 lb	40 mm	90.3 kg	89.8 mt	99.8 mt
1-3/4"	5-1/2"	70.4 lb	228,000 lb	44 mm	105 kg	103 mt	115 mt
2"	6"	92.0 lb	290,000 lb	48 mm	137 kg	131 mt	146 mt
2-1/8"	6-1/2"	104 lb	324,000 lb	52 mm	155 kg	147 mt	163 mt
2-1/4"	7"	116 lb	356,000 lb	56 mm	173 kg	161 mt	179 mt
2-3/8"	7-1/8"	130 lb	396,000 lb	57 mm	193 kg	180 mt	200 mt
2-1/2"	7-1/2"	144 lb	437,000 lb	60 mm	214 kg	198 mt	220 mt
2-5/8"	8"	158 lb	477,000 lb	64 mm	235 kg	216 mt	240 mt
2-3/4"	8-1/2"	174 lb	522,000 lb	68 mm	259 kg	237 mt	263 mt
3"	9"	207 lb	617,000 lb	72 mm	308 kg	280 mt	311 mt
3-1/4"	10"	243 lb	720,000 lb	80 mm	362 kg	327 mt	363 mt
3-5/8"	11"	289 lb	850,000 lb	88 mm	430 kg	385 mt	428 mt
4"	12"	369 lb	1,079,000 lb	96 mm	549 kg	489 mt	544 mt
4-1/4"	13"	435 lb	1,259,000 lb	104 mm	647 kg	571 mt	635 mt
4-5/8"	14"	503 lb	1,452,000 lb	112 mm	748 kg	658 mt	732 mt
5"	15"	580 lb	1,658,000 lb	120 mm	863 kg	752 mt	836 mt
5-1/4"	16"	663 lb	1,895,000 lb	128 mm	987 kg	860 mt	955 mt
5-1/2"	16-1/2"	760 lb	2,129,000 lb	134 mm	1,131 kg	966 mt	1,073 mt
6"	18"	856 lb	2,354,000 lb	152 mm	1,274 kg	1,068 mt	1,186 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.



WITH
Dyneema®

DPX™-75

DPX™-75 uses a 12-strand core combined with a proprietary braided jacket design of Dyneema® and polyester fibers. The cover and 12-strand core of Dyneema® are bonded to minimize movement between the two components. Samson's patented use of DPX™ fiber creates a very firm round rope that will have minimal flattening under load and little tendency to dive or jam on winch drums. DPX™-75 was designed to replace wire rope on winch drums but not to serve as a marine working rope. This firm construction works extremely well as a mooring or winch line.

This product design requires a specialized splicing technique. A standard cover repair kit is available and easy to use in the field.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1-1/8"	3-1/2"	35.5 lb	113,000 lb	28 mm	52.8 kg	51.0 mt	56.7 mt
1-1/4"	3-3/4"	37.4 lb	135,000 lb	30 mm	55.7 kg	61.2 mt	68.0 mt
1-5/16"	4"	42.3 lb	149,000 lb	32 mm	62.9 kg	67.4 mt	74.8 mt
1-3/8"	4-1/8"	46.4 lb	167,000 lb	34 mm	69.0 kg	75.5 mt	83.9 mt
1-1/2"	4-1/2"	51.5 lb	189,000 lb	36 mm	76.6 kg	85.7 mt	95.3 mt
1-5/8"	5"	58.0 lb	225,000 lb	40 mm	86.3 kg	102 mt	113 mt
1-11/16"	5-1/4"	68.4 lb	252,000 lb	42 mm	102 kg	114 mt	127 mt
1-3/4"	5-1/2"	74.2 lb	275,000 lb	44 mm	110 kg	125 mt	138 mt
2"	6"	93.6 lb	329,000 lb	48 mm	139 kg	149 mt	166 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 865

FIBER (CORE/COVER):
Dyneema®/
Dyneema®-Polyester Blend

COLOR: White with green
and red ID

SPECIFIC GRAVITY: 1.00

SPLICE/CLASS:
Product Specific Class II

ELASTIC ELONGATION:
At percent of break strength
10% 0.30%
20% 0.50%
30% 0.80%

FEATURES AND BENEFITS:

- > Wire rope replacement
- > Abrasion resistant
- > Excellent grip
- > Excellent drum spooling capabilities
- > Compression resistant on winch
- > Good coefficient of friction
- > Lightweight
- > Flexible
- > Retains shape with use
- > Floats
- > High visibility

APPLICATIONS:

VESSEL MOORING

- > Primary mooring line
- > General working line



WITH
Dyneema®

PRODUCT CODE: 864

FIBER (CORE/COVER):
Dyneema®/ Dyneema®

COLOR: Charcoal with a red longitudinal line or orange or yellow with black longitudinal line

SPECIFIC GRAVITY:
0.98 (floats)

SPLICE/CLASS:
Product Specific Class II

ELASTIC ELONGATION:
At percent of break strength
10% 0.30%
20% 0.50%
30% 0.80%

FEATURES AND BENEFITS:

- > Abrasion resistant
- > Firm construction
- > Excellent drum spooling capabilities
- > Easy to handle
- > Retains shape with use
- > Excellent cut resistance
- > Durable
- > Floats

APPLICATIONS:

VESSEL MOORING

- > Primary mooring line

TUG

- > Face, wing, and barge wires
- > Mainline
- > Pendant
- > Winch line

OFFSHORE

- > Synthetic extension pendant
- > Winch line

COMMERCIAL FISHING

- > Gilson wire rope replacement
- > Trawl or bridle line

Turbo-75 has the firmness and low stretch of wire, yet only 1/6th the weight. The durable “turbo” braided jacket is very cut- and abrasion-resistant, and protects the 12-strand single braid strength-member core. Turbo-75 easily spools on winches, does not rust or “fish hook” like wire rope, and it floats. Both cover and core are coated with a proprietary Samthane coating.

This product design requires a specialized splicing technique. A standard cover repair kit is available and easy to use in the field.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
3/4"	2-1/4"	14.0 lb	53,100 lb	18 mm	20.8 kg	24.1 mt	26.8 mt
7/8"	2-3/4"	19.9 lb	73,800 lb	22 mm	29.6 kg	33.5 mt	37.2 mt
1"	3"	25.5 lb	87,300 lb	24 mm	37.9 kg	39.6 mt	44.0 mt
1-1/16"	3-1/4"	28.4 lb	102,000 lb	26 mm	42.3 kg	46.1 mt	51.3 mt
1-1/8"	3-1/2"	32.1 lb	113,000 lb	28 mm	47.8 kg	51.0 mt	56.7 mt
1-1/4"	3-3/4"	40.0 lb	135,000 lb	30 mm	59.5 kg	61.2 mt	68.0 mt
1-5/16"	4"	43.3 lb	149,000 lb	32 mm	64.4 kg	67.4 mt	74.8 mt
1-3/8"	4-1/8"	49.5 lb	167,000 lb	34 mm	73.7 kg	75.5 mt	83.9 mt
1-1/2"	4-1/2"	59.5 lb	189,000 lb	36 mm	88.5 kg	85.7 mt	95.3 mt
1-5/8"	5"	67.0 lb	225,000 lb	40 mm	99.7 kg	102 mt	113 mt
1-11/16"	5-1/4"	73.3 lb	252,000 lb	42 mm	109 kg	114 mt	127 mt
1-3/4"	5-1/2"	85.5 lb	275,000 lb	44 mm	127 kg	125 mt	138 mt
1-7/8"	5-5/8"	89.7 lb	293,000 lb	46 mm	133 kg	133 mt	148 mt
2"	6"	99.0 lb	329,000 lb	48 mm	147 kg	149 mt	166 mt
2-1/8"	6-1/2"	110 lb	351,000 lb	52 mm	164 kg	159 mt	177 mt
2-1/4"	7"	126 lb	405,000 lb	56 mm	187 kg	184 mt	204 mt
2-1/2"	7-1/2"	156 lb	514,000 lb	60 mm	232 kg	233 mt	259 mt
2-5/8"	8"	166 lb	540,000 lb	64 mm	247 kg	245 mt	272 mt
2-3/4"	8-1/2"	185 lb	572,000 lb	68 mm	275 kg	259 mt	288 mt
2-7/8"	8-5/8"	197 lb	612,000 lb	70 mm	293 kg	278 mt	308 mt
3"	9"	216 lb	675,000 lb	72 mm	321 kg	306 mt	340 mt
3-1/4"	10"	207 lb	779,000 lb	80 mm	308 kg	353 mt	392 mt
3-3/8"	10-1/8"	233 lb	855,000 lb	82 mm	347 kg	388 mt	431 mt
3-1/2"	10-1/2"	251 lb	923,000 lb	86 mm	373 kg	418 mt	465 mt
3-5/8"	11"	279 lb	992,000 lb	88 mm	415 kg	450 mt	500 mt
4"	12"	304 lb	1,103,000 lb	96 mm	452 kg	500 mt	556 mt
4-1/4"	13"	381 lb	1,260,000 lb	104 mm	567 kg	572 mt	635 mt
4-5/16"	13-1/8"	396 lb	1,305,000 lb	106 mm	589 kg	592 mt	658 mt
4-1/2"	13-1/2"	423 lb	1,395,000 lb	110 mm	629 kg	633 mt	703 mt
4-5/8"	14"	452 lb	1,481,000 lb	112 mm	673 kg	672 mt	746 mt
4-11/16"	14-1/8"	455 lb	1,488,000 lb	114 mm	677 kg	675 mt	750 mt
5"	15"	530 lb	1,750,000 lb	120 mm	789 kg	794 mt	882 mt
5-1/4"	16"	565 lb	1,827,000 lb	128 mm	841 kg	829 mt	921 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

Turbo-RC—like its counterpart Turbo-75—has the firmness and low stretch of wire, yet only 1/6th the weight. Turbo-RC is specially designed for improved service life in applications where creep results from long-term static loads.

PRODUCT CODE: 861



WITH
Dyneema®

TURBO-EPX™

Turbo-EPX is a unique product made with a 12-strand Dyneema® core and a polyester jacket designed to minimize movement over the core. This durable jacket provides grip and protects the strength-member core from degradation. The core and jacket of *Turbo-EPX* work in harmony, preventing excess cover slack during mooring operations, which translates into longer service life. This construction creates a firm, round, torque-free rope, much like wire rope, but much lighter in weight. *Turbo-EPX* delivers excellent performance on all types of winches and offers much better resistance to flex and tension fatigue than wire. It is Samthane coated to improve service life, reduce snagging, enhance abrasion resistance, and prevent contamination.

This product design requires a specialized splicing technique. A standard cover repair kit is available and easy to use in the field.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
3/4"	2-1/4"	16.0 lb	53,100 lb	18 mm	23.8 kg	24.1 mt	26.8 mt
7/8"	2-3/4"	22.9 lb	73,800 lb	22 mm	34.1 kg	33.5 mt	37.2 mt
1"	3"	28.5 lb	87,300 lb	24 mm	42.4 kg	39.6 mt	44.0 mt
1-1/16"	3-1/4"	31.4 lb	102,000 lb	26 mm	46.7 kg	46.1 mt	51.3 mt
1-1/8"	3-1/2"	35.3 lb	113,000 lb	28 mm	52.5 kg	51.0 mt	56.7 mt
1-1/4"	3-3/4"	44.4 lb	135,000 lb	30 mm	66.1 kg	61.2 mt	68.0 mt
1-5/16"	4"	47.3 lb	149,000 lb	32 mm	70.4 kg	67.4 mt	74.8 mt
1-3/8"	4-1/8"	51.4 lb	167,000 lb	34 mm	76.5 kg	75.5 mt	83.9 mt
1-1/2"	4-1/2"	65.0 lb	189,000 lb	36 mm	96.7 kg	85.7 mt	95.3 mt
1-5/8"	5"	75.0 lb	225,000 lb	40 mm	112 kg	102 mt	113 mt
1-11/16"	5-1/4"	82.9 lb	252,000 lb	42 mm	123 kg	114 mt	127 mt
1-3/4"	5-1/2"	95.0 lb	275,000 lb	44 mm	141 kg	125 mt	138 mt
1-7/8"	5-5/8"	99.8 lb	293,000 lb	46 mm	149 kg	133 mt	148 mt
2"	6"	117 lb	329,000 lb	48 mm	174 kg	149 mt	166 mt
2-1/8"	6-1/2"	126 lb	351,000 lb	52 mm	187 kg	159 mt	177 mt
2-1/4"	7"	144 lb	405,000 lb	56 mm	214 kg	184 mt	204 mt
2-1/2"	7-1/2"	173 lb	514,000 lb	60 mm	257 kg	233 mt	259 mt
2-5/8"	8"	184 lb	540,000 lb	64 mm	274 kg	245 mt	272 mt
2-3/4"	8-1/2"	202 lb	572,000 lb	68 mm	301 kg	259 mt	288 mt
2-7/8"	8-5/8"	220 lb	612,000 lb	70 mm	327 kg	278 mt	308 mt
3"	9"	235 lb	675,000 lb	72 mm	350 kg	306 mt	340 mt
3-1/4"	10"	234 lb	779,000 lb	80 mm	348 kg	353 mt	392 mt
3-3/8"	10-1/8"	255 lb	855,000 lb	82 mm	379 kg	388 mt	431 mt
3-1/2"	10-1/2"	276 lb	923,000 lb	86 mm	411 kg	418 mt	465 mt
3-5/8"	11"	299 lb	992,000 lb	88 mm	445 kg	450 mt	500 mt
4"	12"	330 lb	1,103,000 lb	96 mm	491 kg	500 mt	556 mt
4-1/4"	13"	416 lb	1,260,000 lb	104 mm	619 kg	572 mt	635 mt
4-5/16"	13-1/8"	427 lb	1,305,000 lb	106 mm	635 kg	592 mt	658 mt
4-1/2"	13-1/2"	459 lb	1,395,000 lb	110 mm	683 kg	633 mt	703 mt
4-5/8"	14"	491 lb	1,481,000 lb	112 mm	731 kg	672 mt	746 mt
4-11/16"	14-1/8"	495 lb	1,488,000 lb	114 mm	737 kg	675 mt	750 mt
5"	15"	573 lb	1,750,000 lb	120 mm	853 kg	794 mt	882 mt
5-1/4"	16"	611 lb	1,827,000 lb	128 mm	909 kg	829 mt	921 mt
5-1/2"	16-1/2"	647 lb	1,962,000 lb	134 mm	963 kg	890 mt	989 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 886

FIBER (CORE/COVER):
Dyneema®/ Polyester

COLOR: Gray or white
with green and red ID

SPECIFIC GRAVITY: 1.13

SPLICE/CLASS:

Product Specific Class II

ELASTIC ELONGATION:

At percent of break strength
10% 0.30%
20% 0.50%
30% 0.80%

FEATURES AND BENEFITS:

- > 1/7th the weight of wire
- > Abrasion resistant
- > Firm construction
- > Excellent drum spooling capabilities
- > Easy to handle
- > Good coefficient of friction
- > Retains shape with use
- > Durable
- > Floats

APPLICATIONS:

VESSEL MOORING

- > Primary mooring line

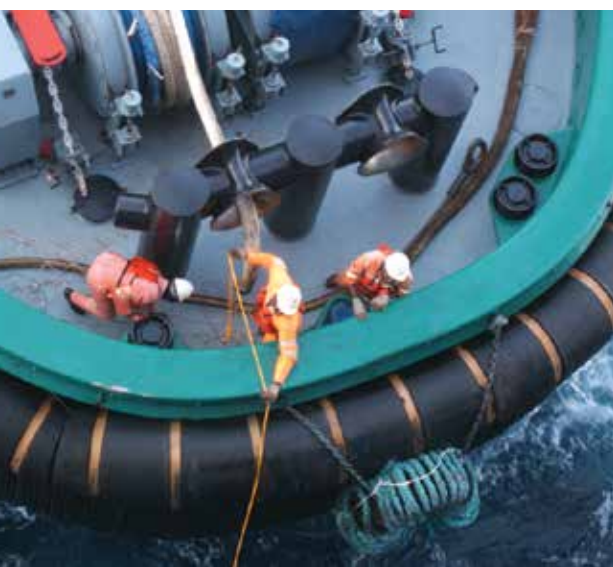
TUG

- > Mainline
- > Pendant
- > Winch line

OFFSHORE

- > Single-drum winch line
- > Synthetic extension pendant
- > Winch line





HTP-12 is a 12-strand construction that provides optimum performance in static bending situations by allowing even distribution of loads across the bend, making HTP-12 ideal for use where small D/d ratios are common. Made with high-tenacity polyester fiber to provide good flex-fatigue resistance and shock absorption, HTP-12 is available with Samson's proprietary Pro-Gard™ marine finish for enhanced performance.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1-1/2"	4-1/2"	72.0 lb	82,600 lb	36 mm	107 kg	37.5 mt	41.6 mt
1-5/8"	5"	93.0 lb	102,000 lb	40 mm	138 kg	46.1 mt	51.3 mt
1-3/4"	5-1/2"	111 lb	122,000 lb	44 mm	165 kg	55.5 mt	61.7 mt
1-7/8"	5-5/8"	118 lb	131,000 lb	46 mm	176 kg	59.2 mt	65.8 mt
2"	6"	130 lb	150,000 lb	48 mm	193 kg	68.2 mt	75.8 mt
2-1/8"	6-1/2"	144 lb	163,000 lb	52 mm	214 kg	73.9 mt	82.1 mt
2-1/4"	7"	162 lb	189,000 lb	56 mm	241 kg	85.7 mt	95.3 mt
2-3/8"	7-1/8"	182 lb	208,000 lb	57 mm	271 kg	94.3 mt	105 mt
2-1/2"	7-1/2"	198 lb	218,000 lb	60 mm	295 kg	98.8 mt	110 mt
2-5/8"	8"	224 lb	240,000 lb	64 mm	333 kg	109 mt	121 mt
2-3/4"	8-1/2"	257 lb	266,000 lb	68 mm	382 kg	121 mt	134 mt
2-7/8"	8-5/8"	266 lb	285,000 lb	70 mm	396 kg	129 mt	144 mt
3"	9"	292 lb	299,000 lb	72 mm	434 kg	136 mt	151 mt
3-1/8"	9-1/2"	320 lb	325,000 lb	76 mm	476 kg	147 mt	164 mt
3-3/16"	9-9/16"	355 lb	357,000 lb	78 mm	528 kg	162 mt	180 mt
3-7/16"	10-5/16"	390 lb	387,000 lb	84 mm	580 kg	176 mt	195 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 703

FIBER: Polyester

COLOR: White with green and red ID

SPECIFIC GRAVITY: 1.38

SPLICE/CLASS:

Round Plait Class I

ELASTIC ELONGATION:

At percent of break strength

10% 1.70%

20% 3.40%

30% 5.80%

FEATURES AND BENEFITS:

- > Flex-fatigue resistant
- > Mitigates shock
- > Easy to inspect
- > Easy to splice
- > Pro-Gard marine finish

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Pendant

TUG

- > Mainline
- > Pendant
- > Shock line

OFFSHORE

- > Lifting sling
- > Synthetic extension pendant
- > Winch line
- > Working line



PRODUCT CODE: 323

FIBER: Nylon

COLOR: White

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS:
Round Plait Class I

ELASTIC ELONGATION:

At percent of break strength
10% 4.20%
20% 6.30%
30% 8.00%

FEATURES AND BENEFITS:

- > High strength
- > Mitigates shock
- > Excellent wear characteristics
- > High strength
- > Easy to splice
- > Pro-Gard marine finish

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Pendant
- > Secondary mooring line

TUG

- > Shock line

OFFSHORE

- > Lifting sling
- > Working line

COMMERCIAL FISHING

- > Trawl or bridle line

Additional sizes available. Please contact customer service or see SamsonRope.com for specifications.

RP-12 Nylon is a round-plaited 12-strand construction of nylon, treated with our proprietary Pro-Gard™ marine finish. This combination provides reduced wet-strength loss, improved abrasion resistance, and high energy-absorbing properties. This firm, flexible rope provides superior handling and maximum wear. RP-12 Nylon offers excellent shock mitigation for peak dynamic loads during towing or mooring operations, and it is easily spliced using Samson's standard tuck-splice.

This product design requires a specialized splicing technique. A standard cover repair kit is available and easy to use in the field.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
3/4"	2-1/4"	15.0 lb	15,000 lb	18 mm	22.3 kg	6.8 mt	7.6 mt
7/8"	2 3/4"	22.6 lb	23,500 lb	22 mm	33.6 kg	10.6 mt	11.8 mt
1"	3"	26.3 lb	29,200 lb	24 mm	39.1 kg	13.3 mt	14.7 mt
1-1/8"	3-1/2"	33.8 lb	34,300 lb	28 mm	50.3 kg	15.6 mt	17.3 mt
1-1/4"	3-3/4"	39.5 lb	40,000 lb	30 mm	58.8 kg	18.1 mt	20.1 mt
1-5/16"	4"	45.1 lb	45,500 lb	32 mm	67.1 kg	20.6 mt	22.9 mt
1-1/2"	4-1/2"	56.4 lb	56,500 lb	36 mm	83.9 kg	25.6 mt	28.5 mt
1-5/8"	5"	67.7 lb	67,600 lb	40 mm	101 kg	30.7 mt	34.1 mt
1-3/4"	5-1/2"	79.0 lb	78,500 lb	44 mm	118 kg	35.6 mt	39.6 mt
2"	6"	95.9 lb	99,500 lb	48 mm	143 kg	45.1 mt	50.1 mt
2-1/8"	6-1/2"	113 lb	111,000 lb	52 mm	168 kg	50.5 mt	56.1 mt
2-1/4"	7"	135 lb	131,000 lb	56 mm	201 kg	59.3 mt	65.9 mt
2-1/2"	7-1/2"	152 lb	149,000 lb	60 mm	226 kg	67.6 mt	75.1 mt
2-5/8"	8"	169 lb	165,000 lb	64 mm	251 kg	74.9 mt	83.2 mt
2-3/4"	8-1/2"	192 lb	197,000 lb	68 mm	286 kg	89.5 mt	99.4 mt
3"	9"	220 lb	219,000 lb	72 mm	327 kg	99.2 mt	110 mt
3-1/4"	10"	271 lb	261,000 lb	80 mm	403 kg	118 mt	132 mt
3-5/8"	11"	321 lb	319,000 lb	88 mm	478 kg	145 mt	161 mt
3-3/4"	11-1/4"	355 lb	354,000 lb	92 mm	528 kg	160 mt	178 mt
4"	12"	389 lb	377,000 lb	96 mm	579 kg	171 mt	190 mt
4-1/8"	12-1/2"	423 lb	415,000 lb	100 mm	629 kg	188 mt	209 mt
4-1/4"	13"	457 lb	440,000 lb	104 mm	680 kg	200 mt	222 mt
4-5/8"	14"	525 lb	492,000 lb	112 mm	781 kg	223 mt	248 mt
5"	15"	658 lb	583,000 lb	120 mm	979 kg	264 mt	294 mt
5-1/4"	16"	725 lb	696,000 lb	128 mm	1,079 kg	316 mt	351 mt
5-5/8"	17"	832 lb	790,000 lb	142 mm	1,238 kg	358 mt	398 mt
6"	18"	948 lb	881,000 lb	152 mm	1,411 kg	400 mt	444 mt
6-1/4"	19"	1,028 lb	937,000 lb	158 mm	1,530 kg	425 mt	472 mt
6-5/8"	20"	1,155 lb	1,056,000 lb	168 mm	1,719 kg	479 mt	532 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.



RP-12 POLYESTER™

CLASS I

RP-12 Polyester has been a standard of performance for years in the tug and mooring industry. The firm strand and smooth construction of this product with low-elongating high-tenacity polyester fiber create a durable workhorse that has excellent flex-fatigue life. The round plait construction allows this rope to conform to contact surfaces. The all-polyester fiber content creates excellent rendering capabilities while giving positive working control. For installing eye splices, RP-12 Polyester is easily spliced using Samson's standard tuck-splice.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
3/4"	2-1/4"	18.8 lb	15,700 lb	18 mm	28.0 kg	7.1 mt	7.9 mt
7/8"	2-3/4"	28.1 lb	23,600 lb	22 mm	41.8 kg	10.7 mt	11.9 mt
1"	3"	35.1 lb	27,500 lb	24 mm	52.2 kg	12.5 mt	13.8 mt
1-1/8"	3-1/2"	41.1 lb	35,300 lb	28 mm	61.2 kg	16.0 mt	17.8 mt
1-1/4"	3-3/4"	45.8 lb	41,200 lb	30 mm	68.2 kg	18.7 mt	20.8 mt
1-5/16"	4"	54.9 lb	47,100 lb	32 mm	81.7 kg	21.4 mt	23.7 mt
1-1/2"	4-1/2"	71.0 lb	58,900 lb	36 mm	106 kg	26.7 mt	29.7 mt
1-5/8"	5"	84.8 lb	70,700 lb	40 mm	126 kg	32.0 mt	35.6 mt
1-3/4"	5-1/2"	98.7 lb	82,400 lb	44 mm	147 kg	37.4 mt	41.5 mt
2"	6"	120 lb	99,900 lb	48 mm	179 kg	45.3 mt	50.3 mt
2-1/8"	6-1/2"	141 lb	118,000 lb	52 mm	210 kg	53.5 mt	59.4 mt
2-1/4"	7"	160 lb	136,000 lb	56 mm	238 kg	61.6 mt	68.5 mt
2-1/2"	7-1/2"	188 lb	159,000 lb	60 mm	280 kg	72.3 mt	80.3 mt
2-5/8"	8"	207 lb	176,000 lb	64 mm	308 kg	80.0 mt	88.9 mt
2-3/4"	8-1/2"	234 lb	200,000 lb	68 mm	348 kg	90.6 mt	101 mt
3"	9"	272 lb	230,000 lb	72 mm	405 kg	104 mt	116 mt
3-1/4"	10"	337 lb	278,000 lb	80 mm	501 kg	126 mt	140 mt
3-5/8"	11"	402 lb	338,000 lb	88 mm	598 kg	153 mt	170 mt
4"	12"	486 lb	405,000 lb	96 mm	723 kg	184 mt	204 mt
4-1/4"	13"	559 lb	465,000 lb	104 mm	832 kg	211 mt	235 mt
4-5/8"	14"	642 lb	533,000 lb	112 mm	955 kg	242 mt	269 mt
5"	15"	745 lb	617,000 lb	120 mm	1,109 kg	280 mt	311 mt
5-1/4"	16"	1,033 lb	661,000 lb	128 mm	1,537 kg	300 mt	333 mt
5-5/8"	17"	1,200 lb	754,000 lb	142 mm	1,786 kg	342 mt	380 mt
6"	18"	1,313 lb	849,000 lb	152 mm	1,954 kg	385 mt	428 mt
6-1/4"	19"	1,419 lb	917,000 lb	158 mm	2,111 kg	416 mt	462 mt
6-5/8"	20"	1,576 lb	1,024,000 lb	168 mm	2,345 kg	464 mt	516 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 402

FIBER: Polyester

COLOR: White

SPECIFIC GRAVITY: 1.38

SPLICE/CLASS:
Round Plait Class I

ELASTIC ELONGATION:

At percent of break strength
10%1.70%
20%2.70%
30%3.90%

FEATURES AND BENEFITS:

- > Durable
- > Firm construction
- > Heat resistant
- > High strength
- > Low elastic elongation

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Pendant
- > Secondary mooring line

TUG

- > H-bitt working line
- > Mainline
- > Shock line

OFFSHORE

- > Lifting sling
- > Working line

Additional sizes available. Please contact customer service or see SamsonRope.com for specifications.



PRODUCT CODE: 416

FIBER: Ultra Blue Polyolefin-Polyester Blend

COLOR: White with green and red fleck

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS:
Round Plait Class I

ELASTIC ELONGATION:

At percent of break strength

10%1.46%

20%2.58%

30%4.04%

FEATURES AND BENEFITS:

- > Excellent grip
- > Heat resistant
- > Firm, yet flexible
- > Excellent abrasion resistance
- > UV resistant
- > Heat resistant
- > Low stretch

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Pendant
- > Primary mooring line
- > Secondary mooring line

TUG

- > Barge and dredge working line
- > H-bitt working line
- > Mainline
- > Messenger line
- > Shock line

Additional sizes available. Please contact customer service or see SamsonRope.com for specifications.

RP-12 SSR-1200 uses a unique design that combines polyester with our proprietary Ultra Blue bi-polymer fiber in each yarn of the strand. The lightweight Ultra Blue fiber does not absorb water adding significant weight advantages in dry and wet working conditions. RP-12 SSR-1200 has a smooth, non-rotational construction with excellent gripping properties. A special marine finish is added to enhance RP-12 SSR-1200's performance.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
3/4"	2-1/4"	16 lb	14,400 lb	18 mm	23.8 kg	6.5 mt	7.3 mt
7/8"	2-3/4"	24 lb	21,600 lb	22 mm	35.7 kg	9.8 mt	10.9 mt
1"	3"	27 lb	25,200 lb	24 mm	40.2 kg	11.4 mt	12.7 mt
1-1/8"	3-1/2"	35 lb	32,400 lb	28 mm	52.1 kg	14.7 mt	16.3 mt
1-1/4"	3-3/4"	39 lb	37,800 lb	30 mm	58.0 kg	17.1 mt	19.1 mt
1-5/16"	4"	47 lb	43,200 lb	32 mm	69.9 kg	19.6 mt	21.8 mt
1-1/2"	4-1/2"	60 lb	54,000 lb	36 mm	89.3 kg	24.5 mt	27.2 mt
1-5/8"	5"	72 lb	64,800 lb	40 mm	107 kg	29.4 mt	32.7 mt
1-3/4"	5-1/2"	84 lb	75,600 lb	44 mm	125 kg	34.3 mt	38.1 mt
2"	6"	102 lb	91,800 lb	48 mm	152 kg	41.6 mt	46.3 mt
2-1/8"	6-1/2"	120 lb	108,000 lb	52 mm	179 kg	49.0 mt	54.4 mt
2-1/4"	7"	136 lb	125,000 lb	56 mm	202 kg	56.7 mt	63.1 mt
2-1/2"	7-1/2"	160 lb	147,000 lb	60 mm	238 kg	66.5 mt	73.9 mt
2-5/8"	8"	176 lb	158,000 lb	64 mm	262 kg	71.4 mt	79.4 mt
2-3/4"	8-1/2"	199 lb	184,000 lb	68 mm	296 kg	83.3 mt	92.5 mt
3"	9"	231 lb	207,000 lb	72 mm	344 kg	93.9 mt	104 mt
3-1/4"	10"	286 lb	252,000 lb	80 mm	426 kg	114 mt	127 mt
3-5/8"	11"	342 lb	306,000 lb	88 mm	509 kg	139 mt	154 mt
4"	12"	413 lb	369,000 lb	96 mm	615 kg	167 mt	186 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

CLASS I



RP-12 ULTRA BLUE™

CLASS I

This line uses Samson's round-plait construction to provide excellent wear characteristics. Ultra Blue, our proprietary blue olefin bi-polymer yarn provides 35–40% higher strength than a conventional olefin rope. The Ultra Blue fiber enhances the gripping capability by developing distinctive outer surface fuzz that protects against internal abrasion.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
5/8"	2"	9.5 lb	8,600 lb	16 mm	14.1 kg	3.9 mt	4.3 mt
3/4"	2-1/4"	12.5 lb	11,400 lb	18 mm	18.6 kg	5.2 mt	5.8 mt
7/8"	2-3/4"	17.0 lb	18,000 lb	22 mm	25.3 kg	8.2 mt	9.1 mt
1"	3"	23.3 lb	22,500 lb	24 mm	34.7 kg	10.2 mt	11.3 mt
1-1/8"	3-1/2"	25.5 lb	24,300 lb	28 mm	37.9 kg	11.0 mt	12.2 mt
1-1/4"	3-3/4"	35.0 lb	34,200 lb	30 mm	52.1 kg	15.5 mt	17.2 mt
1-5/16"	4"	38.0 lb	38,700 lb	32 mm	56.5 kg	17.6 mt	19.5 mt
1-1/2"	4-1/2"	44.0 lb	42,300 lb	36 mm	65.5 kg	19.2 mt	21.3 mt
1-5/8"	5"	54.0 lb	54,900 lb	40 mm	80.4 kg	24.9 mt	27.7 mt
1-3/4"	5-1/2"	67.0 lb	63,000 lb	44 mm	99.7 kg	28.6 mt	31.8 mt
2"	6"	74.0 lb	76,500 lb	48 mm	110 kg	34.7 mt	38.6 mt
2-1/8"	6-1/2"	87.0 lb	85,500 lb	52 mm	129 kg	38.8 mt	43.1 mt
2-1/4"	7"	101 lb	99,000 lb	56 mm	150 kg	44.9 mt	49.9 mt
2-1/2"	7-1/2"	117 lb	117,000 lb	60 mm	174 kg	53.1 mt	59.0 mt
2-5/8"	8"	133 lb	131,000 lb	64 mm	198 kg	59.2 mt	65.8 mt
2-3/4"	8-1/2"	148 lb	141,000 lb	68 mm	220 kg	64.1 mt	71.2 mt
3"	9"	180 lb	162,000 lb	72 mm	268 kg	73.5 mt	81.6 mt
3-1/4"	10"	215 lb	204,000 lb	80 mm	320 kg	92.7 mt	103 mt
3-5/8"	11"	250 lb	239,000 lb	88 mm	372 kg	108 mt	120 mt
4"	12"	297 lb	284,000 lb	96 mm	442 kg	129 mt	143 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 333

FIBER: Ultra Blue Polyolefin

COLOR: Blue with green and red ID

SPECIFIC GRAVITY:
0.94 (floats)

SPLICE/CLASS:
Round Plait Class I

ELASTIC ELONGATION:
At percent of break strength
10% 1.31%
20% 2.27%
30% 3.27%

FEATURES AND BENEFITS:

- > 30–35% stronger than standard polypropylene
- > Excellent grip
- > Durable
- > Floats

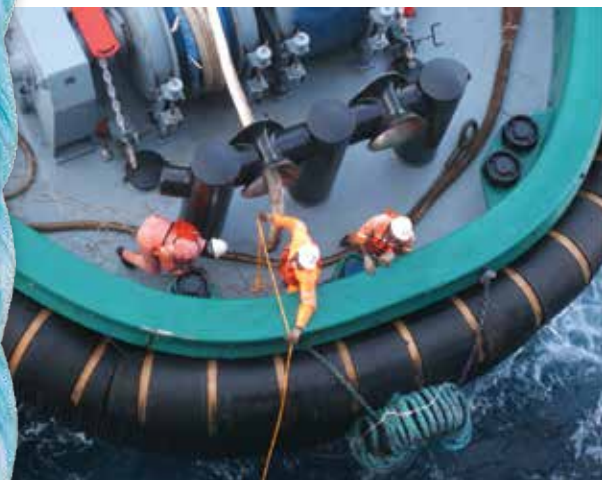
APPLICATIONS:

VESSEL MOORING

- > First ashore/emergency tow system
- > General working line
- > Primary mooring line
- > Secondary mooring line

TUG

- > Barge tie-up line
- > Barge and dredge working line
- > Floating emergency barge trailer line
- > Messenger line
- > Shock line



PRODUCT CODE: 806 / 506

FIBER (CORE/COVER):

Polyester / Polyester

COLOR: UNCOATED (506):

White with blue ID, black (507)

COATED (806): Black, blue, clear, green, orange, red, or yellow—all with blue ID

SPECIFIC GRAVITY: 1.38

SPLICE/CLASS:

Double Braid Class I

ELASTIC ELONGATION:

At percent of break strength

10% 1.10%

20% 1.70%

30% 2.70%

FEATURES AND BENEFITS:

- > Excellent grip
- > Heat resistant
- > Firm, yet flexible
- > Excellent abrasion resistance
- > UV resistant
- > Heat resistant
- > Low stretch

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Secondary mooring line

TUG

- > Shock line

COMMERCIAL FISHING

- > Purse seine line
- > Trawl or bridle line

Stable Braid has a braided core and cover, both contributing to its strength and firm hand, while remaining fully spliceable. It works very well on winch drums and has the non-rotational flexibility to be flaked on deck. Stable Braid is a proven, tough rope with excellent controlled working elongation.

Uncoated rope also available with product code 506. Uncoated black Stable Braid is only available in sizes 3/8", 1/2", 5/8", and 3/4", use product code 507.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT† PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT† PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1/4"	3/4"	2.1 lb	2,000 lb	6 mm	3.1 kg	0.89 mt	0.99 mt
5/16"	1"	3.2 lb	3,100 lb	8 mm	4.8 kg	1.4 mt	1.5 mt
3/8"	1-1/8"	4.5 lb	4,800 lb	9 mm	6.7 kg	2.2 mt	2.4 mt
7/16"	1-1/4"	6.1 lb	6,500 lb	11 mm	9.1 kg	3.0 mt	3.3 mt
1/2"	1-1/2"	8.2 lb	8,800 lb	12 mm	12.2 kg	4.0 mt	4.5 mt
9/16"	1-3/4"	11.0 lb	11,300 lb	14 mm	16.4 kg	5.1 mt	5.7 mt
5/8"	2"	14.0 lb	13,900 lb	16 mm	20.8 kg	6.3 mt	7.0 mt
3/4"	2-1/4"	18.0 lb	17,300 lb	18 mm	26.8 kg	7.9 mt	8.7 mt
7/8"	2-3/4"	27.1 lb	25,400 lb	22 mm	40.3 kg	11.5 mt	12.8 mt
1"	3"	34.0 lb	33,300 lb	24 mm	50.6 kg	15.1 mt	16.8 mt
1-1/8"	3-1/2"	45.3 lb	41,000 lb	28 mm	67.4 kg	18.6 mt	20.6 mt
1-1/4"	3-3/4"	53.9 lb	48,700 lb	30 mm	80.2 kg	22.1 mt	24.5 mt
1-5/16"	4"	60.8 lb	55,000 lb	32 mm	90.5 kg	24.9 mt	27.7 mt
1-1/2"	4-1/2"	73.3 lb	63,800 lb	36 mm	109 kg	29.0 mt	32.2 mt
1-5/8"	5"	85.9 lb	74,100 lb	40 mm	128 kg	33.6 mt	37.4 mt
1-3/4"	5-1/2"	104 lb	88,400 lb	44 mm	155 kg	40.1 mt	44.6 mt
2"	6"	124 lb	105,000 lb	48 mm	185 kg	47.8 mt	53.1 mt
2-1/8"	6-1/2"	147 lb	123,000 lb	52 mm	219 kg	55.9 mt	62.1 mt
2-1/4"	7"	173 lb	141,000 lb	56 mm	257 kg	64.0 mt	71.1 mt
2-1/2"	7-1/2"	196 lb	162,000 lb	60 mm	292 kg	73.3 mt	81.4 mt
2-5/8"	8"	225 lb	180,000 lb	64 mm	335 kg	81.7 mt	90.8 mt
2-3/4"	8-1/2"	246 lb	199,000 lb	68 mm	366 kg	90.2 mt	100 mt
3"	9"	300 lb	236,000 lb	72 mm	446 kg	107 mt	119 mt
3-1/4"	10"	375 lb	292,000 lb	80 mm	558 kg	132 mt	147 mt
3-5/8"	11"	450 lb	346,000 lb	88 mm	670 kg	157 mt	174 mt
4"	12"	525 lb	400,000 lb	96 mm	781 kg	181 mt	201 mt
4-1/4"	13"	589 lb	453,000 lb	104 mm	876 kg	206 mt	228 mt
4-5/8"	14"	689 lb	524,000 lb	112 mm	1,025 kg	238 mt	264 mt
5"	15"	788 lb	593,000 lb	120 mm	1,173 kg	269 mt	299 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

†Weights are for uncoated rope, coating adds approximately 5% to weight listed.



SUPER STRONG™

Super Strong is a braided core and cover, contributing to its strength and firm hand, while remaining fully spliceable. This product works very well on capstans and has the non-rotational flexibility to be flaked on deck.

PRODUCT CODE: 472

FIBER (CORE/COVER):
Nylon / Nylon

COLOR: White with
blue and red ID

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS:
Double Braid Class I

ELASTIC ELONGATION:
At percent of break strength
10% 3.00%
20% 5.30%
30% 6.70%

FEATURES AND BENEFITS:

- > Firm construction
- > Pro-Gard marine finish
- > Remains flexible with use
- > Shrink resistant
- > Excellent shock mitigation
- > Durable

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Pendant
- > Secondary mooring line

TUG

- > Pendant
- > Shock line

COMMERCIAL FISHING

- > Other fishing line

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1/4"	3/4"	1.8 lb	1,900 lb	6 mm	2.7 kg	0.86 mt	0.96 mt
5/16"	1"	2.6 lb	2,900 lb	8 mm	3.9 kg	1.3 mt	1.5 mt
3/8"	1-1/8"	3.8 lb	4,000 lb	9 mm	5.7 kg	1.8 mt	1.8 mt
7/16"	1-1/4"	5.1 lb	5,600 lb	11 mm	7.6 kg	2.5 mt	2.8 mt
1/2"	1-1/2"	6.6 lb	7,300 lb	12 mm	9.8 kg	3.3 mt	3.7 mt
9/16"	1-3/4"	9.3 lb	10,100 lb	14 mm	13.8 kg	4.6 mt	5.1 mt
5/8"	2"	12.0 lb	12,900 lb	16 mm	17.9 kg	5.9 mt	6.5 mt
3/4"	2-1/4"	15.0 lb	16,000 lb	18 mm	22.3 kg	7.2 mt	8.1 mt
7/8"	2-3/4"	22.0 lb	24,700 lb	22 mm	32.7 kg	11.2 mt	12.4 mt
1"	3"	26.0 lb	30,600 lb	24 mm	38.7 kg	13.9 mt	15.4 mt
1-1/16"	3-1/4"	31.0 lb	34,600 lb	26 mm	46.1 kg	15.7 mt	17.4 mt
1-1/8"	3-1/2"	36.0 lb	38,300 lb	28 mm	53.6 kg	17.4 mt	19.3 mt
1-1/4"	3-3/4"	41.0 lb	44,200 lb	30 mm	61.0 kg	20.0 mt	22.3 mt
1-5/16"	4"	43.5 lb	50,400 lb	32 mm	64.7 kg	22.9 mt	25.4 mt
1-1/2"	4-1/2"	60.0 lb	64,300 lb	36 mm	89.3 kg	29.1 mt	32.4 mt
1-5/8"	5"	74.0 lb	78,200 lb	40 mm	110 kg	35.5 mt	39.4 mt
1-3/4"	5-1/2"	89.0 lb	96,300 lb	44 mm	132 kg	43.7 mt	48.5 mt
2"	6"	106 lb	111,000 lb	48 mm	158 kg	50.5 mt	56.1 mt
2-1/8"	6-1/2"	124 lb	132,000 lb	52 mm	185 kg	59.7 mt	66.3 mt
2-1/4"	7"	144 lb	150,000 lb	56 mm	214 kg	68.2 mt	75.8 mt
2-1/2"	7-1/2"	165 lb	172,000 lb	60 mm	246 kg	77.9 mt	86.5 mt
2-5/8"	8"	188 lb	196,000 lb	64 mm	280 kg	88.7 mt	98.5 mt
2-3/4"	8-1/2"	212 lb	218,000 lb	68 mm	315 kg	99.1 mt	110 mt
3"	9"	238 lb	243,000 lb	72 mm	354 kg	110 mt	123 mt
3-1/4"	10"	294 lb	289,000 lb	80 mm	437 kg	131 mt	146 mt
3-5/8"	11"	356 lb	353,000 lb	88 mm	530 kg	160 mt	178 mt
4"	12"	423 lb	425,000 lb	96 mm	629 kg	193 mt	214 mt
4-1/4"	13"	497 lb	479,000 lb	104 mm	740 kg	217 mt	242 mt
4-5/8"	14"	576 lb	549,000 lb	112 mm	857 kg	249 mt	277 mt
5"	15"	662 lb	622,000 lb	120 mm	985 kg	282 mt	314 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.



PRODUCT CODE: 704

FIBER (CORE/COVER):

Polyester / Polyester

COLOR: White with
green and red ID

SPECIFIC GRAVITY: 1.38

SPLICE/CLASS:

Product Specific Class I

ELASTIC ELONGATION:

At percent of break strength

10% 3.20%

20% 4.40%

30% 6.20%

FEATURES AND BENEFITS:

- > Firm shape retention on winch
- > Excellent drum spooling capabilities
- > Excellent shock mitigation
- > High elasticity
- > Abrasion resistant

APPLICATIONS:

TUG

- > Mainline
- > Pendant
- > Winch line

The high elongation of polyester, coupled with a 3-strand core construction, give *Turbo-37* superior shock mitigating properties. Its construction lends itself to retaining its firm, round shape during use with minimal compression or burying on a winch. The best feature of *Turbo-37* is its 100% polyester cover, which provides superior abrasion resistance.

This product design requires a specialized splicing technique.

A standard cover repair kit is available and easy to use in the field.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
2-5/8"	8"	234 lb	244,000 lb	64 mm	348 kg	111 mt	123 mt
2-3/4"	8-1/2"	279 lb	287,000 lb	68 mm	415 kg	130 mt	145 mt
3"	9"	327 lb	332,000 lb	72 mm	487 kg	151 mt	167 mt
3-1/4"	10"	407 lb	405,000 lb	80 mm	606 kg	184 mt	204 mt
3-5/8"	11"	496 lb	483,000 lb	88 mm	738 kg	219 mt	244 mt

**Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.*

CLASS I



PREMIUM POLYESTER-8™

Premium Polyester-8 is a 4-stage, 8-strand, plaited construction made from high-tenacity polyester. This non-torque construction offers excellent strength, low stretch, and superior resistance to wear. This product has Pro-Gard marine finish.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1-5/8"	5"	84.5 lb	66,600 lb	40 mm	126 kg	30.2 mt	33.6 mt
1-3/4"	5-1/2"	101 lb	79,700 lb	44 mm	150 kg	36.1 mt	40.1 mt
2"	6"	122 lb	93,600 lb	48 mm	181 kg	42.5 mt	47.2 mt
2-1/8"	6-1/2"	139 lb	108,000 lb	52 mm	207 kg	49.0 mt	54.4 mt
2-1/4"	7"	162 lb	124,000 lb	56 mm	241 kg	56.3 mt	62.6 mt
2-1/2"	7-1/2"	187 lb	142,000 lb	60 mm	278 kg	64.5 mt	71.7 mt
2-5/8"	8"	210 lb	160,000 lb	64 mm	313 kg	72.7 mt	80.7 mt
2-3/4"	8-1/2"	237 lb	178,000 lb	68 mm	353 kg	80.8 mt	89.8 mt
3"	9"	266 lb	198,000 lb	72 mm	396 kg	89.8 mt	99.8 mt
3-1/4"	10"	328 lb	243,000 lb	80 mm	488 kg	110 mt	122 mt
3-5/8"	11"	396 lb	293,000 lb	88 mm	589 kg	133 mt	147 mt
4"	12"	468 lb	353,000 lb	96 mm	696 kg	160 mt	178 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 258

FIBER: Polyester

COLOR: White

SPECIFIC GRAVITY: 1.38

SPLICE/CLASS:
8-Strand Class I

ELASTIC ELONGATION:

At percent of break strength
10% 3.00%
20% 5.00%
30% 7.70%

FEATURES AND BENEFITS:

- > High strength
- > Low stretch
- > Durable
- > Torque-free construction

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Pendant
- > Secondary mooring line

TUG

- > H-bitt working line
- > Pendant
- > Winch line

COMMERCIAL FISHING

- > Other fishing line
- > Purse seine line
- > Trawl or bridle line



PRODUCT CODE: 263

FIBER: Ultra Blue
Polyolefin-Polyester Blend

COLOR: White with
green and red fleck

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS:
8-Strand Class I

ELASTIC ELONGATION:

At percent of break strength

10%1.40%
20%2.80%
30%3.40%

FEATURES AND BENEFITS:

- > 15–18% lighter than 100% polyester ropes
- > High strength
- > Low elongation
- > Hockle resistant
- > Non-rotational
- > Durable
- > Flexible

SSR-1200-8 is a non-rotational rope with an excellent coefficient of friction for working off H-bitts for tug assist lines on conventional tugs or tractor tugs without winch drums. To minimize connection weight to the assisted ship, many operators use *AmSteel® Blue* connection pendants for their lightweight and high wear resistance.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1-5/8"	5"	68.0 lb	61,200 lb	40 mm	101 kg	27.8 mt	30.8 mt
1-3/4"	5-1/2"	78.4 lb	71,100 lb	44 mm	117 kg	32.3 mt	35.8 mt
2"	6"	99.0 lb	89,100 lb	48 mm	147 kg	40.4 mt	44.9 mt
2-1/8"	6-1/2"	111 lb	99,000 lb	52 mm	166 kg	44.9 mt	49.9 mt
2-1/4"	7"	129 lb	113,000 lb	56 mm	192 kg	51.4 mt	57.2 mt
2-1/2"	7-1/2"	156 lb	135,000 lb	60 mm	232 kg	61.2 mt	68.0 mt
2-5/8"	8"	170 lb	148,000 lb	64 mm	253 kg	67.0 mt	74.4 mt
2-3/4"	8-1/2"	190 lb	169,000 lb	68 mm	283 kg	76.7 mt	85.3 mt
3"	9"	221 lb	191,000 lb	72 mm	328 kg	86.5 mt	96.2 mt
3-1/4"	10"	263 lb	227,000 lb	80 mm	391 kg	103 mt	114 mt
3-5/8"	11"	327 lb	281,000 lb	88 mm	486 kg	127 mt	142 mt
4"	12"	397 lb	337,000 lb	96 mm	591 kg	153 mt	170 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Pendant
- > Primary mooring line
- > Secondary mooring line

TUG

- > Barge and dredge working line
- > Barge tie-up line
- > H-bitt working line

CLASS I

ULTRA BLUE-8™

PRODUCT CODE: 252

FIBER: Ultra Blue Polyolefin

COLOR: Blue with
green and red ID

SPECIFIC GRAVITY:
0.94 (floats)

SPLICE/CLASS:
8-Strand Class I

ELASTIC ELONGATION:

At percent of break strength

10%1.70%
20%3.50%
30%4.20%

FEATURES AND BENEFITS:

- > Easy to splice
- > Excellent grip
- > Floats
- > UV resistant
- > 30–35% stronger than standard polypropylene

In this 8-strand construction, high-strength Ultra Blue fiber creates a rope that is 30–35% higher in strength than the equivalent polypropylene construction, giving *Ultra Blue-8* up to three times more wear life than polypropylene.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	19.2 lb	21,400 lb	24 mm	28.6 kg	9.70 mt	10.8 mt
1-1/8"	3-1/2"	23.7 lb	26,200 lb	28 mm	35.3 kg	11.9 mt	13.2 mt
1-1/4"	3-3/4"	28.8 lb	31,500 lb	30 mm	42.9 kg	14.3 mt	15.9 mt
1-5/16"	4"	31.6 lb	33,800 lb	32 mm	47.0 kg	15.3 mt	17.0 mt
1-1/2"	4-1/2"	41.2 lb	39,900 lb	36 mm	61.3 kg	18.1 mt	20.1 mt
1-5/8"	5"	52.6 lb	52,200 lb	40 mm	78.3 kg	23.7 mt	26.3 mt
1-3/4"	5-1/2"	61.9 lb	62,100 lb	44 mm	92.1 kg	28.2 mt	31.3 mt
2"	6"	73.2 lb	73,800 lb	48 mm	109 kg	33.5 mt	37.2 mt
2-1/8"	6-1/2"	86.6 lb	81,000 lb	52 mm	129 kg	36.7 mt	40.8 mt
2-1/4"	7"	101 lb	98,100 lb	56 mm	150 kg	44.5 mt	49.4 mt
2-1/2"	7-1/2"	116 lb	113,000 lb	60 mm	172 kg	51.0 mt	56.7 mt
2-5/8"	8"	131 lb	126,000 lb	64 mm	195 kg	57.2 mt	63.5 mt
2-3/4"	8-1/2"	149 lb	142,000 lb	68 mm	222 kg	64.5 mt	71.7 mt
3"	9"	168 lb	158,000 lb	72 mm	250 kg	71.9 mt	79.8 mt
3-1/8"	9-1/2"	188 lb	176,000 lb	76 mm	280 kg	80.0 mt	88.9 mt
3-1/4"	10"	208 lb	194,000 lb	80 mm	310 kg	88.2 mt	98.0 mt
3-5/8"	11"	250 lb	231,000 lb	88 mm	371 kg	105 mt	117 mt
4"	12"	294 lb	275,000 lb	96 mm	437 kg	125 mt	138 mt
5"	15"	435 lb	407,000 lb	120 mm	647 kg	185 mt	205 mt
6"	18"	645 lb	583,000 lb	152 mm	960 kg	265 mt	294 mt

*Spliced strength ** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.

APPLICATIONS:

VESSEL MOORING

- > General working line
- > First ashore/emergency tow system
- > Primary mooring line
- > Secondary mooring line

TUG

- > Barge and dredge working line
- > Barge tie-up line

COMMERCIAL FISH

- > Purse seine line
- > Trawl line

PRO-SET-3™

Pro-Set-3 is a premium 3-strand, 4-stage rope. It is manufactured to minimize shrinkage, snagging, and hockling; and maximize strength, durability, and flexibility. Pro-Set-3 is easy to handle and splice.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	26.0 lb	22,500 lb	24 mm	38.7 kg	10.2 mt	11.3 mt
1-1/16"	3-1/4"	29.0 lb	24,500 lb	26 mm	43.2 kg	11.1 mt	12.3 mt
1-1/8"	3-1/2"	34.0 lb	28,800 lb	28 mm	50.6 kg	13.1 mt	14.5 mt
1-1/4"	3-3/4"	40.0 lb	33,800 lb	30 mm	59.5 kg	15.3 mt	17.0 mt
1-5/16"	4"	45.0 lb	37,400 lb	32 mm	67.0 kg	16.9 mt	18.8 mt
1-1/2"	4-1/2"	55.0 lb	46,800 lb	36 mm	81.8 kg	21.2 mt	23.6 mt
1-5/8"	5"	66.5 lb	56,700 lb	40 mm	99.0 kg	25.7 mt	28.6 mt
1-3/4"	5-1/2"	83.0 lb	70,200 lb	44 mm	124 kg	31.8 mt	35.4 mt
2"	6"	95.0 lb	80,100 lb	48 mm	141 kg	36.3 mt	40.4 mt
2-1/8"	6-1/2"	109 lb	90,900 lb	52 mm	162 kg	41.2 mt	45.8 mt
2-1/4"	7"	129 lb	109,000 lb	56 mm	192 kg	49.4 mt	54.9 mt
2-1/2"	7-1/2"	149 lb	122,000 lb	60 mm	222 kg	55.1 mt	61.2 mt
2-5/8"	8"	168 lb	138,000 lb	64 mm	250 kg	62.5 mt	69.4 mt
2-3/4"	8-1/2"	189 lb	156,000 lb	68 mm	281 kg	70.6 mt	78.5 mt
3"	9"	210 lb	171,000 lb	72 mm	312 kg	77.6 mt	86.2 mt
3-1/4"	10"	264 lb	216,000 lb	80 mm	393 kg	98.0 mt	109 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

PRODUCT CODE: 170

FIBER: Nylon

COLOR: White with green and red fleck

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS:
3-Strand Class I

ELASTIC ELONGATION:

At percent of break strength
10%5.5%
20%10.0%
30%12.1%

FEATURES AND BENEFITS:

- > High strength
- > Low stretch
- > Remains flexible with use
- > Durable

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Secondary mooring line

TUG

- > Pendant
- > Shock line
- > Working line

SSR-1200-3™

SSR-1200 ropes are a compound plied-yarn construction that utilizes the ultimate compatibility of filament polyester and Ultra Blue fibers. This unique combination yields strength and wear resistance equal to an all-polyester rope but with a significant reduction in weight and water absorption.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
3/4"	2-1/4"	14.4 lb	13,300 lb	18 mm	21.4 kg	6.0 mt	6.7 mt
13/16"	2-1/2"	17.3 lb	15,800 lb	20 mm	25.7 kg	7.2 mt	8.0 mt
7/8"	2-3/4"	20.6 lb	18,800 lb	22 mm	30.7 kg	8.5 mt	9.5 mt
1"	3"	25.6 lb	22,900 lb	24 mm	38.1 kg	10.4 mt	11.5 mt
1-1/8"	3-1/2"	33.0 lb	29,500 lb	28 mm	49.1 kg	13.4 mt	14.9 mt
1-1/4"	3-3/4"	39.4 lb	35,100 lb	30 mm	58.6 kg	15.9 mt	17.7 mt
1-5/16"	4"	43.3 lb	38,700 lb	32 mm	64.4 kg	17.6 mt	19.5 mt
1-1/2"	4-1/2"	56.2 lb	48,600 lb	36 mm	83.6 kg	22.0 mt	24.5 mt
1-5/8"	5"	68.0 lb	58,500 lb	40 mm	101 kg	26.5 mt	29.5 mt
1-3/4"	5-1/2"	78.4 lb	67,500 lb	44 mm	117 kg	30.6 mt	34.0 mt
2"	6"	99.0 lb	84,600 lb	48 mm	147 kg	38.4 mt	42.6 mt
2-1/8"	6-1/2"	111 lb	94,500 lb	52 mm	166 kg	42.9 mt	47.6 mt
2-1/4"	7"	129 lb	108,000 lb	56 mm	192 kg	49.0 mt	54.4 mt
2-1/2"	7-1/2"	156 lb	128,000 lb	60 mm	232 kg	58.0 mt	64.4 mt
2-5/8"	8"	170 lb	140,000 lb	64 mm	253 kg	63.7 mt	70.8 mt
3"	9"	221 lb	182,000 lb	72 mm	328 kg	82.5 mt	91.6 mt
3-1/4"	10"	263 lb	216,000 lb	80 mm	391 kg	98.0 mt	109 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

APPLICATIONS:

VESSEL MOORING

- > General working line

TUG

- > Barge and dredge working line
- > Barge tie-up line

PRODUCT CODE: 220

FIBER: Ultra Blue
Polyolefin-Polyester Blend

COLOR: White with green and red fleck

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS:
3-Strand Class I

ELASTIC ELONGATION:

At percent of break strength
10%1.50%
20%3.20%
30%4.00%

FEATURES AND BENEFITS:

- > 15–18% lighter than 100% polyester ropes
- > Higher strength than other combination ropes
- > More durable than polypropylene
- > Economical
- > Low elastic elongation
- > Excellent grip

PRODUCT CODE: 226

FIBER: Ultra Blue
Polyolefin-Polyester BlendCOLOR: White with
green and red ID

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS:
3-Strand Class I

ELASTIC ELONGATION:

At percent of break strength

10%	2.10%
20%	3.50%
30%	4.00%

FEATURES AND BENEFITS:

- > 30–35% stronger than standard polypropylene
- > Double the wear of standard lock line ropes
- > Most cost effective lock line available
- > Provides long-term smooth consistent checking
- > Lightweight
- > Low elastic elongation
- > Excellent heat resistance
- > Flex-fatigue resistant

SSR-301R is a high strength, lightweight, and controlled smooth-checking 3-strand line that has double the wear life of standard lockline ropes due to the fiber blend and internal lubricant. Thirty-five percent stronger than standard polypropylene, each core fiber is covered with high-tenacity filament polyester blended with spun polyester. The constant migration of the lubricant to surface yarns maximizes rope wear life, allows consistent checking ability, and minimizes heat buildup during checking.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1-1/2"	4-1/2"	46.9 lb	41,100 lb	36 mm	69.8 kg	18.7 mt	20.7 mt
1-5/8"	5"	57.5 lb	44,600 lb	40 mm	85.6 kg	20.2 mt	22.5 mt
1-3/4"	5-1/2"	66.0 lb	52,700 lb	44 mm	98.2 kg	23.9 mt	26.6 mt
2"	6"	78.4 lb	64,000 lb	48 mm	117 kg	29.0 mt	32.3 mt
2-1/4"	7"	99.0 lb	75,100 lb	56 mm	147 kg	34.0 mt	37.8 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

APPLICATIONS:

VESSEL MOORING

- > General working line
- > Pendant
- > Primary mooring line
- > Secondary mooring line

TUG

- > Barge and dredge working line
- > Barge tie-up line
- > Lock line

CLASS I

ULTRA BLUE-3™

PRODUCT CODE: 130

FIBER: Ultra Blue Polyolefin

COLOR: Blue with
green and red IDSPECIFIC GRAVITY:
0.94 (floats)SPLICE/CLASS:
3-Strand Class I

ELASTIC ELONGATION:

At percent of break strength

10%	2.00%
20%	4.80%
30%	6.80%

FEATURES AND BENEFITS:

- > 30–35% stronger than standard polypropylene
- > More durable than polypropylene ropes
- > Excellent grip
- > Lightweight
- > UV resistant
- > Easy to splice
- > Abrasion resistant

In this 3-strand construction, high-strength Ultra Blue fiber creates a rope that is 30–35% higher in strength than the equivalent polypropylene construction, giving *Ultra Blue-3* up to three times more wear life than polypropylene.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	18.6 lb	20,300 lb	24 mm	27.7 kg	9.20 mt	10.3 mt
1-1/8"	3-1/2"	24.7 lb	23,900 lb	28 mm	36.8 kg	10.9 mt	12.1 mt
1-1/4"	3-3/4"	28.9 lb	29,700 lb	30 mm	43.0 kg	13.5 mt	15.0 mt
1-5/16"	4"	32.5 lb	33,300 lb	32 mm	48.4 kg	15.1 mt	16.8 mt
1-1/2"	4-1/2"	41.2 lb	37,800 lb	36 mm	61.3 kg	17.1 mt	19.1 mt
1-5/8"	5"	52.6 lb	49,500 lb	40 mm	78.3 kg	22.5 mt	24.9 mt
1-3/4"	5-1/2"	61.9 lb	58,500 lb	44 mm	92.1 kg	26.5 mt	29.5 mt
2"	6"	73.2 lb	70,200 lb	48 mm	109 kg	31.8 mt	35.4 mt
2-1/8"	6-1/2"	86.6 lb	76,500 lb	52 mm	129 kg	34.7 mt	38.6 mt
2-1/4"	7"	101 lb	92,700 lb	56 mm	150 kg	42.0 mt	46.7 mt
2-1/2"	7-1/2"	116 lb	106,000 lb	60 mm	172 kg	48.2 mt	53.5 mt
2-5/8"	8"	131 lb	120,000 lb	64 mm	195 kg	54.3 mt	60.3 mt
3"	9"	168 lb	150,000 lb	72 mm	250 kg	68.2 mt	75.8 mt
3-1/4"	10"	208 lb	185,000 lb	80 mm	310 kg	83.7 mt	93.0 mt

*Spliced strength. **ISO strength specifications are for unspliced rope. All other strength specifications are for spliced rope.

APPLICATIONS:

VESSEL MOORING

- > General working line

TUG

- > Barge and dredge working line
- > Barge tie-up line
- > Floating emergency barge trailer line
- > Messenger line

OFFSHORE

- > Working line

SPLICING INFO & TOOLS

Samson provides the most comprehensive splice instructions in the industry

Fids are utilized to perform the appropriate splice procedure based on the class and type of construction.

The fids are used in making required measurements and in burying the rope during the splicing operation.

Each diameter of rope has a matching fid size and, to ensure that the required measurements are made correctly, the proper sized fid for the rope size must be used in performing a splice. There are two styles of fid offered: Aluminum Tubular Fids and Wire Fids. The Aluminum Tubular Fids are used by inserting the end rope section into the fid while the Wire Fids are attached to the end of the rope section. Tubular Fids are pushed through the rope with an appropriate sized pusher where Wire Fids are either fed through the rope or pulled through by attaching a feed line.

TUBULAR FIDS AND PUSHERS

PRODUCT CODES:

901 (fid) 913 (small pusher) 914 (large pusher)

A different sized splicing fid is required for each size of rope. When ordering, be sure to specify the proper sized fid (see chart below).

FID PROD. CODE	FID SIZE ROPE DIAMETER	TOTAL FID LENGTH	SHORT FID SECTION	PUSHER PROD. CODE
901	1/4"	5-1/2"	2-1/16"	913 (Small)
901	5/16"	6-3/4"	2-1/2"	913 (Small)
901	3/8"	7-3/4"	2-7/8"	913 (Small)
901	7/16"	9-1/2"	3-9/16"	913 (Small)
901	1/2"	11"	4-1/8"	913 (Small)
901	9/16"	12-1/4"	3-5/8"	914 (Large)
901	5/8"	14"	4-1/8"	914 (Large)
901	3/4"	16"	4-3/4"	914 (Large)
901	7/8"	19"	4-3/4"	914 (Large)
901	1"	21"	5-1/4"	914 (Large)

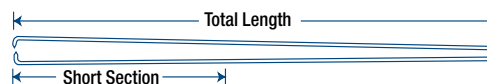
Short Section
of fid

WIRE FIDS

PRODUCT CODE: 905

Use a wire fid for rope sizes above 1" in diameter (3" circumference). The fid scale is 1/2 for rope diameters between 1-1/16" and 2". Larger sizes available, contact customer service.

PRODUCT CODE	FID SIZE = ROPE CIRC.	TOTAL FID LENGTH	SHORT SECTION
905	3"	10-1/2"	2-5/8"
905	3-1/2"	12-1/4"	3"
905	3-3/4"	13-1/4"	3-1/4"
905	4"	14"	3-1/2"
905	4-1/2"	16"	4"
905	5"	17-1/2"	4-1/2"
905	5-1/2"	19"	4-3/4"
905	6"	21"	5-1/4"



SPLICING INSTRUCTIONS

The most current and up-to-date splicing instructions for products listed in the catalog are available online at SamsonRope.com.

As depicted in the catalog, our rope constructions are stated as Class I and Class II ropes and each type of rope class requires unique splicing procedures.

For decades, Samson has been known for supplying the most comprehensive splice instructions in the industry. Our Splicing Manual and DVDs are no exception, get your copy today.



Contact your Samson authorized dealer to order your copy. Also available for download at SamsonRope.com.

SPLICING KITS

The Samson Splice Training

Kit comes complete with a fid, pusher, instructions for a double braid eye splice, and two lengths of double braided ropes.



The Samson Splicing Kit

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



COMMERCIAL FISHING PRODUCTS

- = Class II (high-performance fiber content)
- = Class I (traditional fiber content)

APPLICATIONS

PRODUCT NAME	FAMILY CODE	PAGE	Crab Ropes	Gillnet, Cork & Lead Lines	Gilson Wire Rope Replacements	Longlines	Purse Seine Lines	Trawl or Bridle Lines	Other Fishing Lines	CONSTRUCTION	FIBER (Core/Cover)
AmSteel®	870	37			●		●		●	12-S	Dyneema®
AmSteel®Blue	872	6			●			●	●	12-S	Dyneema®
Aqualine™	357	37							●	12-S	Ultra Blue Polyolefin-Polyester Blend
Braided Nylon Crab Rope™	521	39	●							DB	Nylon/Nylon
Dura Oceanmaster Lead Line™	489	41		●						LL	Segmented Lead/Polypropylene-Nylon
Dura-Plex™	360/860	37					●		●	12-S	Polypropylene-Polyester Blend
Duralon Purse Line™	516	42					●			DB	Polyester/Polyester
Flexcore™	492	41					●			LL	Segmented Lead/Polyester/Polyolefin
FN-16 Nylon™	819	39						●		16-S	Nylon
Herring Gillnet Cork Line™	537	40		●						CL	Ultra Blue Polyolefin-Polypropylene Blend
Hi-Lo Cork Line™	551	40		●			●			CL	Ultra Blue Polyolefin/Polyolefin-Nylon
Hi-Tech Purse Line™	818	42					●			12-S	Dyneema®Polyester Blend (Polyolefin Control Core)
HP Dura Pacificmaster Cork Line™	533/534/535	41		●						DB	Polyester-Polypropylene-Nylon Blend
Kodiak Purse Line™	334	42					●			12-S	Ultra-Blue Polyolefin
Nylon Lube Line™	517	42					●			DB	Nylon/Nylon
Oceanmaster Cork Line™	530	41					●			CL	Nylon/Nylon
Premium Polyester-8™	258	30					●	●	●	8-S	Polyester
Proton-8™	830	16						●	●	8-S	Dyneema®Polyester Blend
PTS-3 Nylon™	188	36						●		3-S	Nylon
PTS-12 Nylon™	820	37						●		12-S	Nylon
Quantum-8™	863	17							●	8-S	Dyneema®Polyester Blend
Quantum-12™	873	11							●	12-S	Dyneema®Polyester Blend
Quik-Splice™	335	38					●		●	12-S	Ultra Blue Polyolefin
Rivermaster Lead Line™	491	41		●						LL	Segmented Lead/Polyester
RP-12 Nylon™	323	23						●		12-S	Nylon
RP-12 Nylon TC™	824	38						●		12-S	Nylon
Seinemaster Cork Line™	531	41					●			CL	Nylon/Polyester
Solid Braid Polytron™	014	40	●			●				SB	Ultra Blue Polyolefin
Stable Braid™	506/806	27		●			●	●		DB	Polyester/Polyester
SSR-100 Crab Rope™	213/214/215	36	●							3-S	Ultra Blue Polyolefin-Polyester Blend
SSR-1200 Ultra Ground Line™	234/235/237	34				●				3-S	Ultra Blue Polyolefin-Polyester Blend
SSR-2400™	412	38					●			12-S	Ultra Blue Polyolefin-Polyester Blend
Super Strong™	472	28							●	DB	Nylon/Nylon
Tenex™	826	38					●		●	12-S	Polyester
TrawlSteel™	878	38						●		12-S	Polyester (Control Core)/Dyneema®
TrawlSteel™-Blue	879	38						●		12-S	Polyester (Control Core)/Dyneema®
TS-II™	877	39						●		CD	Dyneema®(Polyester Control Core)/Polyester
TS-II Premium™	880	39						●		CD	Dyneema®(Polyester Control Core)/Dyneema®
TS-II Turbo™	880	40						●		CD	Dyneema®(Polyester Control Core)/Dyneema®
Turbo Nylon Head Rope™	541	40						●		DB	Nylon/Nylon
Turbo Polyester Head Rope™	542	40						●		DB	Polyester/Polyester
Turbo-75™	864	19			●			●		DB	Dyneema®/Dyneema®
UB-16 Jacketed Trawl Twine™	712	39						●		DB	Nylon/Ultra Blue Polyolefin
UB-16 Jacketed Trawl Twine w/Lead™	713	39						●		DB	Nylon with Segmented Lead/Ultra Blue Polyolefin
Ultra Blue-3™	130	36					●			3-S	Ultra Blue Polyolefin
Ultra Blue-3 Trailer/Bridle™	134	36						●		3-S	Ultra Blue Polyolefin
Ultra Blue-3 Crab™	133/135	36	●							3-S	Ultra Blue Polyolefin
Ultra Blue-3 Longline™	136	37				●				3-S	Ultra Blue Polyolefin
Ultra Blue-8™	252	31					●	●		8-S	Ultra Blue Polyolefin

3-S = 3-Strand
12-S = 12-Strand
16-S = 16-Strand
CL = Cork Line
CD = Core-Dependent Double Braid

DB = Double Braid
LL = Lead Line
SB = Solid Braid

3-STRANDS

PTS-3 Nylon™

PRODUCT CODE: **188** (coated)

FIBER: Nylon

COLOR: Clear

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS: 3-Strand Class I

PTS-3 Nylon is a premium, 3-strand rope that is heat set by our exclusive thermo-set process. This process coats the rope with our Samthane coating and sets the fibers, bonding them to create working firmness and extend wear life. The result is less than 1% shrinkage with excellent energy absorption, improved splicing, and a long wear life.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1/4"	2 lb	2,100 lb	1,900 lb
5/16"	2.7 lb	3,000 lb	2,700 lb
3/8"	3.9 lb	5,200 lb	4,700 lb
7/16"	5.3 lb	6,500 lb	5,900 lb
1/2"	6.8 lb	8,000 lb	7,200 lb
9/16"	8.7 lb	10,000 lb	9,000 lb
5/8"	10.6 lb	12,000 lb	10,800 lb
3/4"	15.3 lb	14,500 lb	13,100 lb
7/8"	20.1 lb	17,800 lb	16,000 lb

*Spliced strength

SSR-100 Crab Rope™

PRODUCT CODES:

213 (medium-firm lay)

SPECIFIC GRAVITY: 1.16

214 (firm lay)

SPECIFIC GRAVITY: 1.18

215 (medium-hard lay)

SPECIFIC GRAVITY: 1.20

FIBER: Ultra Blue Polyolefin-Polyester Blend

COLOR: White

SPLICE/CLASS: 3-Strand Class I

A long wearing sinking line, *SSR-100 Crab Rope* minimizes hockling when loaded and unloaded and resists abrasion.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
213 Medium-Firm Lay			
3/4"	15.2 lb	10,900 lb	9,800 lb
7/8"	21.2 lb	13,700 lb	12,300 lb
214 Firm Lay			
5/16"	2.5 lb	2,500 lb	2,200 lb
215 Medium-Hard Lay			
3/8"	4.9 lb	3,500 lb	3,200 lb
7/16"	5.7 lb	3,700 lb	3,300 lb
1/2"	7.3 lb	4,800 lb	4,300 lb
9/16"	9.8 lb	6,500 lb	5,900 lb
5/8"	14.0 lb	9,300 lb	8,400 lb
3/4"	15.6 lb	10,400 lb	9,400 lb

*Spliced strength

SSR-1200 Ultra Ground Line™

DIAMETER inches	LAY	PRODUCT CODE UNCOATED	PRODUCT CODE COATED	WEIGHT per 100 ft. UNCOATED	WEIGHT per 100 ft. COATED	AVG. STRENGTH*	MIN. STRENGTH*
234 UNCOATED / 237 COATED Medium-Soft Lay							
5/16"	MSL	234	237	2.5 lb	2.8 lb	3,200 lb	2,900 lb
3/8"	MSL	234	237	3.3 lb	3.7 lb	4,100 lb	3,700 lb
7/16"	MSL	234	237	4.4 lb	4.8 lb	5,300 lb	4,800 lb

*Spliced strength

PRODUCT CODES:

234 (medium-soft lay) UNCOATED 5/16" dia. through 7/16" dia.

237 (medium-soft lay) COATED 5/16" dia. through 7/16" dia.

FIBER: Ultra Blue Polyolefin-Polyester Blend

COLOR: White with green and red ID (234 only), white (237 only)

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS: 3-Strand Class I

This 3-strand construction virtually eliminates the potential for the hook to snag on yarn filaments, provides good grip characteristics combined with good coiling properties, and has excellent abrasion resistance. The coating on *SSR-1200 Ultra Ground Lines* Coated enhances service life and wear.

Ultra Blue-3™

PRODUCT CODE: **130**

FIBER: Ultra Blue Polyolefin

COLOR: Blue with green and red ID

SPECIFIC GRAVITY: 0.94 (floats)

SPLICE/CLASS: 3-Strand Class I

In this 3-strand construction, high-strength Ultra Blue fiber creates a rope that is 30–35% higher in strength than the equivalent polypropylene construction, giving *Ultra Blue-3* up to three times more wear life than polypropylene.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1/4"	1.1 lb	1,700 lb	1,500 lb
5/16"	2.1 lb	2,600 lb	2,300 lb
3/8"	2.6 lb	3,700 lb	3,300 lb
7/16"	3.1 lb	4,600 lb	4,100 lb
1/2"	4.5 lb	6,100 lb	5,500 lb
9/16"	6.3 lb	8,400 lb	7,600 lb
5/8"	8.0 lb	10,600 lb	9,500 lb
3/4"	10.2 lb	12,000 lb	10,800 lb
7/8"	15.8 lb	18,000 lb	16,200 lb
1"	18.6 lb	22,600 lb	20,300 lb
1-1/8"	24.7 lb	26,600 lb	23,900 lb
1-1/4"	28.9 lb	33,000 lb	29,700 lb

*Spliced strength

Larger sizes shown on page 33

Ultra Blue-3 Trailer/Bridle™

PRODUCT CODE: **134** (firm lay)

FIBER: Ultra Blue Polyolefin

COLOR: Yellow

SPECIFIC GRAVITY: 0.94 (floats)

SPLICE/CLASS: 3-Strand Class I

In this 3-strand construction, high-strength Ultra Blue fiber creates a rope that is 30–35% higher in strength than the equivalent polypropylene construction, giving *Ultra Blue-3* up to three times more wear life than polypropylene.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
134 BRIDLE Firm Lay			
1"	18.3 lb	19,000 lb	16,200 lb
1-1/8"	24.3 lb	25,000 lb	21,300 lb
134 TRAWL Firm Lay			
5/8"	8.4 lb	8,800 lb	7,500 lb

*Spliced strength

10,000 LB MINIMUM ORDER

Ultra Blue-3 Crab™

PRODUCT CODES:

133 (medium-firm lay)

135 (medium-hard lay)

FIBER: Ultra Blue Polyolefin

COLOR:

Blue with green and red ID

SPECIFIC GRAVITY: 0.94 (floats)

SPLICE/CLASS: 3-Strand Class I

In this 3-strand construction, high-strength Ultra Blue fiber creates a rope that is 30–35% higher in strength than the equivalent polypropylene construction, giving *Ultra Blue-3* up to three times more wear life than standard polypropylene.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
133 Medium-Firm Lay			
5/16"	2.7 lb	2,600 lb	2,300 lb
11/32"	3.1 lb	3,000 lb	2,700 lb
3/8"	3.6 lb	3,600 lb	3,200 lb
7/16"	4.4 lb	4,400 lb	4,000 lb
1/2"	5.4 lb	5,300 lb	4,800 lb
9/16"	7.8 lb	7,700 lb	6,900 lb
3/4"	13.6 lb	9,400 lb	8,500 lb
7/8"	17.5 lb	12,500 lb	11,300 lb
15/16"	18.0 lb	14,500 lb	13,100 lb
1"	23.1 lb	18,000 lb	16,200 lb
1-1/8"	26.6 lb	21,000 lb	18,900 lb
135 Medium-Hard Lay			
5/16"	2.7 lb	2,400 lb	2,200 lb
11/32"	3.1 lb	2,800 lb	2,500 lb
3/8"	3.6 lb	3,200 lb	2,900 lb
7/16"	4.4 lb	4,200 lb	3,800 lb
1/2"	5.4 lb	5,000 lb	4,500 lb
9/16"	7.8 lb	7,100 lb	6,400 lb
5/8"	10.1 lb	8,600 lb	7,700 lb
3/4"	13.6 lb	12,000 lb	10,800 lb
13/16"	14.4 lb	13,900 lb	12,500 lb
7/8"	17.5 lb	16,000 lb	14,400 lb

*Spliced strength

Ultra Blue-3 Longline™

PRODUCT CODE:

136 (medium-firm lay)

FIBER: Ultra Blue Polyolefin

COLOR: Blue with green and red ID

SPECIFIC GRAVITY: 0.94 (floats)

SPLICE/CLASS: 3-Strand Class I

In this 3-strand construction, high-strength Ultra Blue fiber creates a rope that is 30–35%

higher in strength than the equivalent polypropylene construction, giving Ultra Blue-3 up to three times more wear life than standard polypropylene.

Ultra Blue-3 Longline is constructed to reduce hockling and has superior UV-degradation resistance. Manufactured in super-long, continuous lengths to eliminate the need for splice connections. Pre-marked lengths over 100-fathoms are available at no extra charge.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
9/16"	6.2 lb	8,200 lb	7,400 lb
5/8"	8.2 lb	10,300 lb	9,300 lb
3/4"	10.4 lb	12,200 lb	11,000 lb
13/16"	12.8 lb	16,300 lb	14,700 lb
7/8"	15.6 lb	19,500 lb	17,600 lb
1"	18.5 lb	23,000 lb	20,700 lb
1-1/8"	24.0 lb	27,000 lb	24,300 lb
1-1/4"	28.6 lb	33,000 lb	29,700 lb

*Spliced strength



Photo Courtesy Dave Mann

12-STRANDS

AmSteel®

PRODUCT CODE: **870**

FIBER: Dyneema®

COLOR: Gray, some sizes also available by special order in black, blue, green, orange, red, or yellow

SPECIFIC GRAVITY: 0.98 (floats)

SPLICE/CLASS: 12-Strand Class II

AmSteel® is a non-rotational, Samthane-coated 12-strand single braid that yields high strength and low stretch; equivalent to wire rope with one-seventh the weight. In addition, the product is flexible, spliceable, and resists flex-fatigue and abrasion.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1/4"	1.5 lb	7,400 lb	6,500 lb
5/16"	2.5 lb	11,900 lb	10,400 lb
3/8"	3.5 lb	16,200 lb	14,200 lb
7/16"	4.2 lb	19,300 lb	16,900 lb
1/2"	6.0 lb	26,500 lb	23,200 lb
9/16"	7.5 lb	33,500 lb	29,300 lb
5/8"	10.0 lb	42,300 lb	37,000 lb
3/4"	13.0 lb	53,800 lb	47,100 lb
13/16"	16.6 lb	67,000 lb	58,600 lb
7/8"	18.9 lb	75,300 lb	65,900 lb
1"	22.2 lb	87,200 lb	76,300 lb
1-1/16"	26.3 lb	102,000 lb	89,200 lb
1-1/8"	30.6 lb	117,000 lb	102,000 lb
1-1/4"	34.9 lb	132,000 lb	115,000 lb
1-5/16"	39.6 lb	147,000 lb	129,000 lb
1-1/2"	48.8 lb	178,000 lb	156,000 lb
1-5/8"	61.1 lb	219,000 lb	192,000 lb
1-3/4"	73.5 lb	259,000 lb	227,000 lb
2"	85.8 lb	298,000 lb	261,000 lb
2-1/8"	102 lb	350,000 lb	306,000 lb
2-1/4"	115 lb	390,000 lb	341,000 lb
2-1/2"	142 lb	470,000 lb	411,000 lb

*Spliced strength

Aqualine™

PRODUCT CODE: **357**

FIBER: Polypropylene-Polyester

COLOR: White with green and orange variegated ID

SPECIFIC GRAVITY: 1.10

SPLICE/CLASS: 12-Strand Class I

Aqualine is a low-helix-angle single braid that has excellent strength and is extremely fast to splice. It's a durable rope that is highly resistant to UV degradation. If nets are being hung by way of sewing machines, Aqualine's soft, torque-free flat profile allows fast installation time and minimizes needle damage. Minimum order is two units per put-up for all sizes.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
3/8"	3.2 lb	3,800 lb	3,400 lb
1/2"	5.4 lb	5,700 lb	5,100 lb
5/8"	8.0 lb	13,300 lb	11,900 lb

*Spliced strength

MINIMUM ORDER IS TWO UNITS PER PUT-UP FOR ALL SIZES.

Dura-Plex™

PRODUCT CODES:

360 (uncoated) 860 (coated)

FIBER: Polypropylene-Polyester Blend

COLOR:

UNCOATED White with blue ID

COATED Coated blue, clear, green, orange, red, or yellow—all with blue ID

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS: 12-Strand Class I

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1/4"	1.5 lb	1,800 lb	1,600 lb
5/16"	2.2 lb	2,600 lb	2,300 lb
3/8"	3.4 lb	3,900 lb	3,500 lb
7/16"	4.6 lb	5,000 lb	4,500 lb
1/2"	5.8 lb	6,700 lb	6,000 lb
9/16"	8.3 lb	9,000 lb	8,100 lb
5/8"	11.0 lb	11,600 lb	10,400 lb
3/4"	15.0 lb	14,500 lb	13,100 lb
7/8"	21.5 lb	21,200 lb	19,100 lb
1"	24.2 lb	25,000 lb	22,500 lb

*Spliced strength **Uncoated only

In Dura-Plex, a 12-strand single braid, the composite strands are braided together using parallax construction to produce a rope with an excellent strength-to-weight ratio.

PTS-12 Nylon™

PRODUCT CODE: **820 (coated)**

FIBER: Nylon

COLOR: Coated black, blue, clear, green, orange, or red. Also available with a black longitudinal line

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS: 12-Strand Class I

PTS-12 Nylon is a 12-strand coated, heat-set stabilized nylon trawl twine. This line offers excellent strength, shock mitigation, and is extremely wear resistant. PTS-12 has 1% shrinkage with excellent energy absorption, improved splicing, and a long wear life.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
3/16"	1.2 lb	1,800 lb	1,600 lb
1/4"	2.0 lb	3,000 lb	2,700 lb
5/16"	3.0 lb	4,500 lb	4,100 lb
3/8"	4.0 lb	5,500 lb	5,000 lb
7/16"	5.6 lb	7,000 lb	6,300 lb
1/2"	7.4 lb	10,800 lb	9,700 lb
9/16"	10.4 lb	14,000 lb	12,600 lb
5/8"	12.1 lb	16,000 lb	14,400 lb
3/4"	16.1 lb	21,000 lb	18,900 lb
1-1/8"	30.0 lb	47,000 lb	42,300 lb

*Spliced strength

12-STRANDS / 16-STRANDS

Quik-Splice™

PRODUCT CODE: 335
FIBER: Ultra Blue Polyolefin
COLOR: Blue with green and red ID
SPECIFIC GRAVITY: 0.94 (floats)
SPLICE/CLASS:
 Product Specific Class I

In this fast splicing, 12-strand single braid construction, high-strength Ultra Blue fiber creates a rope that is 30–35% higher in strength than the equivalent polypropylene construction, giving *Quik-Splice* up to three times more wear life than polypropylene.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1/4***	1.1 lb	1,400 lb	1,300 lb
5/16***	1.7 lb	2,500 lb	2,300 lb
3/8***	2.7 lb	3,500 lb	3,200 lb
7/16***	3.5 lb	4,600 lb	4,100 lb
1/2"	4.9 lb	6,700 lb	6,000 lb
9/16"	6.0 lb	7,500 lb	6,800 lb
5/8"	8.0 lb	10,900 lb	9,800 lb
3/4"	9.9 lb	13,000 lb	11,700 lb
7/8"	15.2 lb	16,000 lb	14,400 lb
1"	21.0 lb	23,100 lb	20,800 lb
1-1/8"	24.5 lb	28,600 lb	25,700 lb
1-1/4"	29.0 lb	31,300 lb	28,200 lb
1-1/2"	41.0 lb	43,800 lb	39,400 lb
1-5/8"	51.1 lb	55,000 lb	49,500 lb
1-3/4"	60.0 lb	63,800 lb	57,400 lb
2"	70.0 lb	76,300 lb	68,700 lb
2-1/8"	84.0 lb	88,800 lb	79,900 lb
2-1/4"	98.0 lb	102,000 lb	91,800 lb
2-1/2"	114 lb	113,000 lb	102,000 lb

*Spliced strength. **Sizes 7/16" (11 mm) and below changes from 12-strand to 8-strand or 16-strand construction.

RP-12 Nylon TC™

PRODUCT CODE: 824 (coated)
FIBER: Nylon
COLOR: Coated blue, clear, green, or red. Also available with a black longitudinal line
SPECIFIC GRAVITY: 1.14
SPLICE/CLASS:
 12-Strand Round Plait Class I

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
3/4"	18.0 lb	17,500 lb	15,800 lb
7/8"	25.5 lb	26,800 lb	24,100 lb
1"	32.0 lb	36,000 lb	32,400 lb
1-1/8"	40.0 lb	40,000 lb	36,000 lb
1-1/4"	45.0 lb	48,000 lb	43,200 lb
1-5/16"	51.6 lb	51,700 lb	46,500 lb
1-3/8"	58.0 lb	58,000 lb	52,200 lb

*Spliced strength

This 12-strand round plait is preshrunk, thermo-set, and Samthane coated to create a stabilized, firm, durable rope that is fully spliceable.

SSR-2400™

PRODUCT CODE: 412
FIBER: Ultra Blue Polyolefin-Polyester Blend
COLOR: White with green and red variegated ID. Also available with a black longitudinal line.
SPECIFIC GRAVITY: 1.20
SPLICE/CLASS:
 12-Strand Class I

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
7/8"	22.0 lb	23,000 lb	20,700 lb
1"	28.0 lb	32,500 lb	29,300 lb
1-1/8"	37.5 lb	46,500 lb	41,900 lb
1-1/4"	44.5 lb	52,500 lb	47,300 lb
1-1/2"	61.5 lb	75,000 lb	67,500 lb
1-3/4"	84.0 lb	108,000 lb	97,200 lb
2"	108 lb	146,000 lb	131,000 lb

*Spliced strength

This balanced 12-strand single braid offers very high strength with low handling weight. *SSR-2400* is a firm construction with low elongation and excellent handling qualities. The 2-ends per carrier provide excellent abrasion resistance, and *SSR-2400* is easily spliced.

Tenex™

PRODUCT CODE: 826
FIBER: Polyester
COLOR: Coated black, blue, clear, green, orange, red, or yellow
SPECIFIC GRAVITY: 1.38
SPLICE/CLASS:
 12-Strand Class I

Tenex is a 12-strand single braid that offers high strength with low stretch and outstanding abrasion resistance. It is Samthane coated to provide abrasion resistance, enhance wear life, snag resistance, and increase ease of splicing. It is a viable alternative to using double braids when easy field splicing and economy are major considerations.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
3/16"	1.3 lb	1,800 lb	1,600 lb
1/4"	2.1 lb	3,200 lb	2,900 lb
5/16"	3.2 lb	4,700 lb	4,200 lb
3/8"	3.9 lb	5,800 lb	5,200 lb
7/16"	6.3 lb	9,000 lb	8,100 lb
1/2"	8.0 lb	11,800 lb	10,600 lb
9/16"	10.0 lb	15,000 lb	13,500 lb
5/8"	12.0 lb	17,100 lb	15,400 lb
3/4"	17.2 lb	22,400 lb	20,200 lb
7/8"	25.8 lb	32,600 lb	29,300 lb
1"	34.5 lb	42,700 lb	38,400 lb
1-1/8"	43.0 lb	50,000 lb	45,000 lb
1-1/4"	52.2 lb	57,200 lb	51,500 lb
1-5/16"	59.7 lb	69,500 lb	62,600 lb
1-1/2"	71.5 lb	81,700 lb	73,500 lb
1-5/8"	90.3 lb	94,000 lb	84,600 lb
1-3/4"	105 lb	109,000 lb	98,100 lb

*Spliced strength

TrawlSteel™

PRODUCT CODE: 878
FIBER: Polyester (Control Core) / Dyneema®-MFP Blend
COLOR: Charcoal or yellow
SPECIFIC GRAVITY: 1.03
SPLICE/CLASS:
 Product Specific Class II

TrawlSteel is a strong, low-stretch, Samthane-coated 12-strand single braid that has exceptional resistance to wear and flex-fatigue. A non-load-bearing control core is in the center of the rope to maximize its cross-sectional firmness.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1/2"	8.0 lb	20,000 lb	18,000 lb
9/16"	9.6 lb	24,600 lb	22,100 lb
5/8"	13.3 lb	32,500 lb	29,300 lb
3/4"	16.7 lb	38,400 lb	34,600 lb
7/8"	23.7 lb	54,200 lb	48,800 lb
1"	29.0 lb	64,000 lb	57,600 lb
1-1/16"	32.6 lb	72,000 lb	64,800 lb
1-1/8"	43.5 lb	81,600 lb	73,400 lb
1-1/4"	47.9 lb	91,200 lb	82,100 lb
1-1/2"	69.9 lb	126,000 lb	113,000 lb
1-5/8"	83.5 lb	149,000 lb	134,000 lb
1-3/4"	96.8 lb	176,000 lb	158,000 lb
2"	113 lb	200,000 lb	180,000 lb

*Spliced strength

TrawlSteel™-Blue

PRODUCT CODE: 879
FIBER: Polyester (Control Core) / Dyneema®
COLOR: Blue
SPECIFIC GRAVITY: 1.03
SPLICE/CLASS:
 Product Specific Class II

TrawlSteel-Blue is a high-strength, low-stretch, Samthane coated, 12-strand single braid with exceptional resistance to wear and flex-fatigue. A non-load-bearing control core is in the center of the rope to maximize its cross-sectional firmness.

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1/2"	8.0 lb	29,000 lb	26,100 lb
9/16"	9.6 lb	35,700 lb	32,100 lb
5/8"	13.3 lb	47,200 lb	42,500 lb
3/4"	16.7 lb	55,700 lb	50,100 lb
7/8"	23.7 lb	78,600 lb	70,700 lb
1"	29.0 lb	92,800 lb	83,500 lb
1-1/16"	32.6 lb	105,000 lb	94,500 lb
1-1/8"	43.5 lb	118,000 lb	106,000 lb
1-1/4"	47.9 lb	132,000 lb	119,000 lb
1-5/16"	59.7 lb	147,000 lb	133,000 lb
1-1/2"	69.9 lb	182,000 lb	164,000 lb
1-5/8"	83.5 lb	216,000 lb	194,000 lb
1-3/4"	96.8 lb	255,000 lb	230,000 lb
2"	113 lb	290,000 lb	261,000 lb

*Spliced strength



PHOTO © John P. Lee

16-STRANDS

FN-16 Nylon™

PRODUCT CODE: **819** (coated)
FIBER: Nylon
COLOR: Blue, clear, green, or red
SPECIFIC GRAVITY: 1.14
SPlice/CLASS: Non-spliceable Class I

DIAMETER mm	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH
6 mm	1.7 lb	2,000 lb	1,800 lb
8 mm	2.8 lb	3,500 lb	3,200 lb
10 mm	4.2 lb	4,800 lb	4,300 lb
12 mm	6.2 lb	5,700 lb	5,100 lb
15 mm	8.5 lb	7,900 lb	7,100 lb
17 mm	10.5 lb	9,400 lb	8,500 lb

*Unspliced strength

FN-16 Nylon is a 16-strand single braid. Samthane coating develops a firm, high-strength rope which has good abrasion resistance, memory, and shock-load capacities. This product is not spliceable.

DOUBLE BRAIDS

UB-16 Jacketed Trawl Twine™

PRODUCT CODE: **712**
FIBER (CORE/COVER): Nylon / Ultra Blue Polyolefin
COLOR: Blue with green and red ID
SPECIFIC GRAVITY: 1.00
SPlice/CLASS: Non-spliceable Class I

DIAMETER mm	WEIGHT per 100 ft.	AVG. STRENGTH	MIN. STRENGTH
6 mm	1.4 lb	1,900 lb	1,600 lb
8 mm	2.6 lb	3,100 lb	2,600 lb
10 mm	4.3 lb	4,900 lb	4,200 lb
12 mm	6.0 lb	6,600 lb	5,600 lb
15 mm	9.0 lb	10,000 lb	8,500 lb
17 mm	12 lb	12,600 lb	10,700 lb

*Unspliced strength

UB-16 Jacketed Trawl Twine is a 16-strand, single braid nylon core with an Ultra Blue protective braid-over-braid jacket, which adds additional wear resistance to the trawl twine offerings. The jacket material provides excellent knot-holding characteristics and performs well for front-end material in mid-water trawl twine applications.

UB-16 Jacketed Trawl Twine w/Lead™

PRODUCT CODE: **713**
FIBER (CORE/COVER): Nylon with Segmented Lead / Ultra Blue Polyolefin
COLOR: Blue with green and red ID
SPECIFIC GRAVITY: 1.50
SPlice/CLASS: Non-spliceable Class I

DIAMETER mm	WEIGHT per 100 ft.	AVG. STRENGTH	MIN. STRENGTH
8 mm	6.3 lb	3,100 lb	2,600 lb
10 mm	8.0 lb	4,900 lb	4,200 lb
12 mm	9.7 lb	6,600 lb	5,600 lb
15 mm	14.1 lb	10,000 lb	8,500 lb
17 mm	17.1 lb	12,600 lb	10,700 lb

*Unspliced strength

This product is a 16-strand, single braid nylon core that is braided over a lead string. The Ultra Blue protective braid-over-braid jacket adds additional wear resistance to the trawl twine offering. This product has the same characteristics as the nonleaded version but provides a quicker sink rate when the trawl net is deployed.

DOUBLE BRAIDS

Braided Nylon Crab Rope™

PRODUCT CODE: **521**
FIBER (CORE/COVER): Nylon / Nylon
COLOR: White
SPECIFIC GRAVITY: 1.38
SPlice/CLASS: Non-spliceable Class I

DIAMETER inches	WEIGHT per 300 fms.	AVG. STRENGTH	MIN. STRENGTH
11/32"	57.6 lb	3,000 lb	2,700 lb
3/8"	70.2 lb	3,600 lb	3,200 lb
13/32"	84.6 lb	4,800 lb	4,300 lb
7/16"	97.2 lb	5,200 lb	4,700 lb

*Unspliced strength

Braided Nylon Crab Rope is constructed with a braided nylon cover over a parallel nylon core. The high-tenacity filament nylon is preshrunk to create service life stability.

TS-II™

PRODUCT CODE: **877** (coated)
FIBER (CORE/COVER): Dyneema® (Polyester Control Core) / Polyester
COLOR: Charcoal, orange, or yellow
SPECIFIC GRAVITY: 1.20
SPlice/CLASS: Product-Specific Class II

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1/2"	9.6 lb	21,000 lb	17,900 lb
9/16"	11.5 lb	23,000 lb	19,600 lb
5/8"	15.5 lb	39,000 lb	33,200 lb
3/4"	20.5 lb	46,000 lb	39,100 lb
7/8"	29.3 lb	64,000 lb	54,400 lb
1"	38.0 lb	75,000 lb	63,800 lb
1-1/8"	46.4 lb	91,000 lb	77,400 lb
1-1/4"	58.5 lb	99,000 lb	84,200 lb
1-1/2"	83.5 lb	138,000 lb	117,000 lb
1-5/8"	92.5 lb	160,000 lb	136,000 lb
1-3/4"	112 lb	195,000 lb	166,000 lb

*Spliced strength

TS-II is a core-dependent double braid with a Dyneema® braided core with a polyester cover that has the firmness required for trawl-system applications. The polyester jacket protects the strength member from abrasion. The Samthane coating applied to the cover further enhances abrasion resistance and allows for specific rope identification within the trawl net system. TS-II requires specific splicing instructions, which are available upon request.

TS-II Premium™

PRODUCT CODE: **880** (coated)
FIBER (CORE/COVER): Dyneema® (Polyester Control Core) / Dyneema®
COLOR: Charcoal, orange, or yellow
SPECIFIC GRAVITY: 1.00
SPlice/CLASS: Product-Specific Class II

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1/2"	8.1 lb	21,000 lb	17,900 lb
9/16"	9.8 lb	23,000 lb	19,600 lb
5/8"	12.5 lb	39,000 lb	33,200 lb
3/4"	16.5 lb	46,000 lb	39,100 lb
7/8"	24.0 lb	64,000 lb	54,400 lb
1"	30.5 lb	75,000 lb	63,800 lb
1-1/8"	39.0 lb	91,000 lb	77,400 lb
1-1/4"	46.0 lb	99,000 lb	84,200 lb
1-1/2"	66.8 lb	138,000 lb	117,000 lb
1-5/8"	74.0 lb	160,000 lb	136,000 lb
1-3/4"	90.0 lb	186,000 lb	158,000 lb

*Spliced strength.

TS-II Premium has a Dyneema® core strength member, encased in a Dyneema® fiber jacket. The jacket is further enhanced with Samthane coating to allow for specific rope identification within the trawl net system. This firm, abrasion resistant line has excellent wear characteristics and is excellent on winch drums. Applicable splicing instructions are available upon request.

DOUBLE BRAIDS *(continued)*

TS-II Turbo™

PRODUCT CODE: 881 (coated)

FIBER (CORE/COVER):
Dyneema® (Polyester Control Core) /
Dyneema®

COLOR: Orange

SPECIFIC GRAVITY: 1.01

SPLICE/CLASS:
Product-Specific Class II

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
7/8"	18.1 lb	49,300 lb	41,900 lb
1"	24.7 lb	65,000 lb	55,300 lb
1-1/8"	34.4 lb	86,300 lb	73,400 lb
1-3/8"	40.9 lb	120,000 lb	102,000 lb
1-1/2"	57.6 lb	153,000 lb	130,000 lb
1-5/8"	67.4 lb	181,000 lb	154,000 lb

*Spliced strength

TS-II Turbo is a unique high-performance trawl warp line constructed with Dyneema® fiber and a firm non-load-bearing polyester control core. As a lightweight, steel-wire rope replacement, TS-II Turbo is both cut and abrasion resistant and it floats. The neutral buoyancy allows for greater net control in shallow depths while also achieving wider openings at the front end of the nets to increase catch yield ratios.

Turbo Nylon Head Rope™

PRODUCT CODE: 541 (coated)

FIBER (CORE/COVER): Nylon / Nylon

COLOR: White with one variegated
green and red ID and black
longitudinal line

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS:
Non-spliceable Class I

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH	MIN. STRENGTH
5/8"	11.3 lb	10,800 lb	9,200 lb
3/4"	15.0 lb	16,200 lb	13,800 lb
7/8"	21.0 lb	17,500 lb	14,900 lb
1"	26.5 lb	19,800 lb	16,800 lb
1-1/16"	28.3 lb	24,600 lb	20,900 lb
1-1/8"	32.0 lb	26,200 lb	22,300 lb
1-1/4"	40.5 lb	37,300 lb	31,700 lb
1-1/2"	59.0 lb	50,800 lb	43,200 lb

*Unspliced strength

A firm, knobby nylon double braid, Turbo Nylon Head Rope has a parallel nylon core. This construction allows for swagged eyes, and has good abrasion resistance and excellent shock loading and elongation characteristics.



PHOTO © John P. Lee

Turbo Polyester Head Rope™

PRODUCT CODE: 542

FIBER (CORE/COVER):

Polyester / Polyester

COLOR: White with two variegated
green and red ID markers and
black longitudinal line.

SPECIFIC GRAVITY: 1.38

SPLICE/CLASS: Non-spliceable Class I

DIAMETER inches	WEIGHT per 100 ft.	AVG. STRENGTH	MIN. STRENGTH
5/8"	13.0 lb	16,000 lb	13,600 lb
3/4"	18.0 lb	20,000 lb	17,000 lb
7/8"	26.0 lb	26,000 lb	22,100 lb
15/16"	30.5 lb	30,000 lb	25,500 lb
1"	34.0 lb	32,000 lb	27,200 lb
1-1/16"	36.0 lb	36,000 lb	30,600 lb
1-1/8"	40.0 lb	38,000 lb	32,300 lb
1-1/4"	48.0 lb	43,000 lb	36,600 lb
1-1/2"	59.0 lb	55,000 lb	46,800 lb

*Unspliced strength

A firm, knobby polyester double braid, Turbo Polyester Head Rope has a parallel polyester core. This construction allows for swagged eyes, and has good abrasion resistance and excellent shock loading and elongation characteristics.

SOLID BRAIDS

Solid Braid Polytron™

PRODUCT CODE: 014

FIBER: Ultra Blue Polyolefin

COLOR: Blue with green and
red variegated ID

SPECIFIC GRAVITY: 0.94 (floats)

SPLICE/CLASS:
Non-spliceable Class I

DIAMETER inches	SIZE	WEIGHT per 100 feet	AVG. STRENGTH	MIN. STRENGTH
1/4"	#8	1.1 lb	1,300 lb	1,200 lb
9/32"	#9	1.4 lb	1,600 lb	1,400 lb
5/16"	#10	1.7 lb	1,800 lb	1,600 lb
3/8"	#12	2.6 lb	2,500 lb	2,300 lb

*Unspliced strength

In this solid braid construction, high-strength Ultra Blue fiber creates a rope that is 30–35% higher in strength than the equivalent polypropylene construction, giving Solid Braid Polytron up to three times more wear life than polypropylene.

CORK LINES

Herring Gillnet™ Cork Line

PRODUCT CODE: 537

FIBER (CORE/COVER): Ultra Blue Polyolefin / Polypropylene

COLOR: Blend of black and green

SPECIFIC GRAVITY: 0.92 (floats)

SPLICE/CLASS: Non-spliceable Class I

DIAMETER inches	WEIGHT per 55 fathoms
5/16"	7.6 lb
3/8"	9.2 lb

*Unspliced strength

This braided cork line consists of a polypropylene cover over a parallel polyolefin fiber core. Herring Gillnet Cork Line is a firm, balanced, floating construction with a good strength-to-weight ratio.

Hi-Lo™ Cork Line

PRODUCT CODE: 551

FIBER (CORE/COVER): Ultra Blue
Polyolefin / Polypropylene-Nylon
Blend

COLOR: Green and white with
red ID

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS: Non-spliceable Class I

DIAMETER inches	WEIGHT per 100 fathoms	AVG. STRENGTH	MIN. STRENGTH
3/8"	20.4 lb	2,600 lb	2,300 lb
13/32"	22.8 lb	3,100 lb	2,800 lb
7/16"	27.6 lb	3,500 lb	3,200 lb
1/2"	33.6 lb	5,000 lb	4,500 lb

*Unspliced strength

Hi-Lo Cork Line is a braided cover of white spun nylon/green polypropylene in a 2x2 construction and a parallel core of Ultra Blue high-tenacity fiber. It is available in medium-firm construction only.

CORK LINES *(continued)*

HP Dura Pacificmaster™ Cork Line

PRODUCT CODES:

533 (soft lay)

3/8" dia. through 7/8" dia.

COLOR: Blend of blue, orange, and white

534 (medium lay)

3/8" dia. through 3/4" dia.

COLOR: Blend of green, orange, and white

535 (firm lay)

7/16" dia. through 9/16" dia.

COLOR: Blend of blue, orange, and white

FIBER: Polyester /

Polypropylene-Nylon Blend

SPECIFIC GRAVITY: 1.20 (533 soft lay only)

SPLICE/CLASS: Non-spliceable Class I

DIAMETER inches	WEIGHT per 100 fms.	AVG. STRENGTH	MIN. STRENGTH
Soft/Medium			
3/8"	22.8 lb	4,500 lb	4,100 lb
7/16"	33.6 lb	6,200 lb	5,600 lb
1/2"	46.2 lb	9,500 lb	8,600 lb
9/16"	54.6 lb	11,400 lb	10,300 lb
5/8"	61.2 lb	13,200 lb	11,900 lb
3/4"	89.4 lb	18,900 lb	17,000 lb
Soft			
7/8"	120 lb	21,000 lb	18,900 lb
Firm Lay			
9/16"	33.6 lb	6,000 lb	5,400 lb
5/8"	46.2 lb	8,200 lb	7,400 lb
3/4"	54.6 lb	10,300 lb	9,300 lb

*Unspliced strength

This cork line has high strength and low elongation. Its durable cover provides excellent knot adhesion, working strength, and good abrasion resistance.

Oceanmaster™ Cork Line

PRODUCT CODE: **530**

FIBER (CORE/COVER): Nylon / Nylon

COLOR: White with a green longitudinal hanging line

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS:

Non-spliceable Class I

DIAMETER inches	WEIGHT per 100 fms.	AVG. STRENGTH	MIN. STRENGTH
9/16"	52.2 lb	8,000 lb	7,200 lb
5/8"	73.2 lb	11,000 lb	9,900 lb
3/4"	93.0 lb	14,000 lb	12,600 lb
7/8"	145 lb	19,000 lb	17,100 lb
1"	162 lb	23,000 lb	20,700 lb

*Unspliced strength

Oceanmaster Cork Line has excellent strength, superior elasticity, and strength retention with a firm and balanced cover construction.

Seinemaster™ Cork Line

PRODUCT CODE: **531**

FIBER (CORE/COVER): Nylon / Polyester

COLOR: White with black longitudinal hanging line

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS: Non-spliceable Class I

DIAMETER inches	WEIGHT per 100 fms.	AVG. STRENGTH	MIN. STRENGTH
5/8"	76.7 lb	11,000 lb	9,900 lb
3/4"	109 lb	14,000 lb	12,600 lb
7/8"	149 lb	19,000 lb	17,100 lb

*Unspliced strength

This cork line has a firmly braided cover over parallel yarns. It has excellent strength and low stretch with a firm and balanced cover construction.

LEAD LINES

Dura Oceanmaster™ Lead Line

PRODUCT CODE: **489**

FIBER (CORE/COVER): Segmented Lead / Polypropylene-Nylon

COLOR: Blend of green and white with a black longitudinal line

SPECIFIC GRAVITY: 4.50 (average)

SPLICE/CLASS:

Non-spliceable Class I

WEIGHT per 100 fathoms	AVG. STRENGTH*	WEIGHT per 100 fathoms	AVG. STRENGTH*
30 lb	800 lb	120 lb	800 lb
40 lb	800 lb	140 lb	800 lb
50 lb	800 lb	150 lb	1,500 lb
65 lb	800 lb	175 lb	1,500 lb
75 lb	800 lb	200 lb	2,000 lb
85 lb	800 lb	250 lb	2,000 lb
95 lb	800 lb	300 lb	2,000 lb
110 lb	800 lb		

*Unspliced strength

This easy-to-handle, flexible lead line has excellent strength and good surface yarns on its cover to lash to netting.

Flexcore™

PRODUCT CODE: **492**

FIBER (CORE/COVER): Segmented Lead / Polypropylene / Polyester

COLOR: White with a green longitudinal hanging line

SPECIFIC GRAVITY: 4.30

SPLICE/CLASS:

Product Specific Class I

WEIGHT per fathom	AVG. STRENGTH*	WEIGHT per fathom	AVG. STRENGTH*
2 lb	9,000 lb	9 lb	9,000 lb
3 lb	9,000 lb	10 lb	12,000 lb
4 lb	9,000 lb	11 lb	12,000 lb
5 lb	9,000 lb	12 lb	12,000 lb
6 lb	9,000 lb	14 lb	12,000 lb
7 lb	9,000 lb	16 lb	12,000 lb
8 lb	9,000 lb		

*Spliced strength

Flexcore is a firm construction that allows good adhesion from seine lashing twines. It has very low stretch with a durable cover that provides excellent strength and abrasion resistance. Flexcore is fast sinking. The standard is with a factory-installed eye on each end.

Rivermaster™ Lead Line

PRODUCT CODE: **491**

FIBER (CORE/COVER): Segmented Lead / Acetate-Spun Polyester-Polyester Blend

COLOR: White with a black longitudinal hanging line

SPECIFIC GRAVITY: 7.50

SPLICE/CLASS:

Non-spliceable Class I

WEIGHT per 100 fathoms	AVG. STRENGTH	WEIGHT per 100 fathoms	AVG. STRENGTH
30 lb	380 lb	110 lb	380 lb
50 lb	380 lb	120 lb	480 lb
65 lb	380 lb	140 lb	480 lb
75 lb	380 lb	150 lb	480 lb
85 lb	380 lb	175 lb	480 lb
95 lb	380 lb	200 lb	480 lb

*Unspliced strength

Rivermaster Lead Line has weak cover yarns that are designed to save a snagged gillnet by breaking. This line has excellent abrasion resistance and a firm construction with good knot-holding characteristics.

PURSE LINES

Duralon Purse Line™

PRODUCT CODE: 516

FIBER (CORE/COVER):
Polyester / Polyester

COLOR: White with green ID

SPECIFIC GRAVITY: 1.38

SPLICE/CLASS: Double Braid Class I

Duralon Purse Line is a double braid construction with Pro-Gard Marine Finish. The core has a proprietary wax coating to enhance abrasion resistance.

DIAMETER	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
5/8"	15.6 lb	12,700 lb	10,800 lb
3/4"	19.2 lb	16,000 lb	13,600 lb
7/8"	28.2 lb	23,400 lb	19,900 lb
1"	38.0 lb	30,600 lb	26,000 lb
1-1/8"	47.5 lb	37,700 lb	32,000 lb
1-1/4"	57.0 lb	44,800 lb	38,100 lb

*Spliced strength

Hi-Tech Purse Line™

PRODUCT CODE: 818

FIBER (CORE/COVER):
Polyolefin Control Core/
Dyneema® Polyester Blend
COLOR: Orange with black
longitudinal line

SPECIFIC GRAVITY: 1.00

SPLICE/CLASS: Product Specific Class II

Hi-Tech Purse Line is a non-rotational 12-strand braided construction made of Dyneema® HMPE and Samson's patented DPX™ fiber technology. *Hi-Tech Purse Line* has a non-rotating control core that helps it maintain its round shape under load. When compared to traditional polypropylene purse lines, *Hi-Tech* is much lighter and stronger, allowing downsizing of the line. This weight savings translates into less resistance in the water, easier handling, and lower total cost of operation. The DPX™ fiber technology gives this purse line a high coefficient of friction that aids it in laying back into the net efficiently prior to the next set. This soft flexible construction reduces noise as it moves through the haulers. It floats, has excellent abrasion resistance, low elongation, and superior wear life.

DIAMETER	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
3/4"	12 lb	20,600 lb	18,500 lb
7/8"	16 lb	25,500 lb	23,000 lb
1"	21 lb	30,400 lb	27,400 lb

*Spliced strength

Kodiak Purse Line™

PRODUCT CODE: 334

FIBER: Ultra Blue Polyolefin

COLOR: Blue with green and red ID

SPECIFIC GRAVITY: 0.94 (floats)

SPLICE/CLASS: Non-spliceable Class I

Kodiak Purse Line is a non-rotating 12-strand braided construction. Non-spliceable, it maintains its round shape under load. *Kodiak Purse Line* floats, and has excellent abrasion resistance, low elongation, and superior wear life.

DIAMETER	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH
5/8"	10.4 lb	7,500 lb	6,800 lb
3/4"	11.1 lb	9,600 lb	8,600 lb
7/8"	14.8 lb	13,000 lb	11,700 lb
1"	20.3 lb	17,300 lb	15,600 lb
1-1/8"	30.0 lb	20,500 lb	18,500 lb

*Unspliced strength



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Nylon Lube Line™

PRODUCT CODE: 517

FIBER (CORE/COVER): Nylon / Nylon

COLOR: White

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS: Double Braid Class I

Nylon Lube Line is made of a firmly braided nylon cover over a braided, lubricated nylon core. The combination of the core lubrication and firm cover braid provides a superior wearing seine purse and lifter line for drum applications.

DIAMETER	WEIGHT per 100 ft.	AVG. STRENGTH*	MIN. STRENGTH*
1"	26.7 lb	29,500 lb	25,100 lb
1-1/8"	40.0 lb	42,000 lb	35,700 lb
1-1/4"	43.0 lb	50,500 lb	42,900 lb

*Spliced strength



CHAFE PROTECTION

Samson has the most innovative chafe solutions to extend the life of your synthetic ropes

Samson high-performance synthetic ropes have been engineered to provide ease of handling, extreme strength, and long service life. Dyneema® fiber, a major component in many of Samson's high-performance ropes, is extremely cut- and abrasion-resistant. While properly designed and engineered ropes take maximum advantage of this resistance, in the real world environment of the commercial marine industry, protecting ropes from abrasion and cutting significantly increases service life.

CHAFE GEAR SELECTOR

The chafe gear selector is designed to help you determine which product is suitable for your application based on whether you need sliding or fixed chafe protection, the construction of the rope, and the level of abrasion to which the rope will be exposed. Please confirm your selection with a Samson technical sales engineer or customer service representative.

PRODUCT NAME	FAMILY CODE	PAGE	SLIDING	FIXED	Non-jac	Jackete	Non-jac	Jackete	Non-jac	Jackete
HIGH-PERFORMANCE CHAFE PROTECTION										
DC Gard™	706	44		X	X		X		X	
DC Moor-Gard™	705	45	X		X	X	X	X	X	X
Saturn Dynalene™	988	44		X	X		X		X	
TC Gard™	707	44		X	X		X		X	
Technolene™	976	45		X	X		X		X	
STANDARD CHAFE PROTECTION										
Cor-Gard™	R6	47	X		X	X	X	X		
Chafe-Pro® FS	984	46	X		X	X	X	X	X	X
IFH Chafe Guard™	999601	47	X		X	X	X	X		
PC Gard™	432	44		X	X		X			
Pro-Gard™	974	46	X		X	X	X	X		
Pro-Gard Eye Protector™	973	46		X	X	X	X	X		
Pro-Moor™	977	47	X		X	X	X	X		

SATURN DYNALENE™

PRODUCT CODE: 988

Saturn Dynalene is a unique product that protects the strength member from abrasion, yet allows the rope to be easily inspected for both internal and external fiber wear. This chafe protector is made from cut and abrasion resistant Dyneema® fiber with Samson's proprietary Saturn coating to enhance abrasion resistance and reduce operating temperatures. *Saturn Dynalene* is permanently spliced over the rope and acts as a sacrificial cover, protecting it from abrasion and wear in mooring, tug, and offshore applications.

Saturn Dynalene is fully repairable in the field, does not absorb water, and floats. It is easy to install anywhere on the rope.

WITH
Dyneema®

FEATURES:

- > Lightweight
- > Floats
- > Easy inspection without removal
- > Excellent durability
- > Improved coating for enhanced abrasion resistance

SIZE DESIGNATION	FITS ROPE DIAMETER		COVERS SPliced ROPE DIAMETER	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Small	7/8" – 1-1/4"	22 – 30 mm	5/8" – 1"	16 – 24 mm
Medium	1-5/16" – 1-5/8"	32 – 40 mm	1-1/8" – 1-3/8"	28 – 34 mm
Large	1-3/4" – 3"	44 – 72 mm	1-1/2" – 2-5/8"	36 – 64 mm
Extra-Large	3-1/4" – 4"	80 – 96 mm	2-3/4" – 3-1/4"	68 – 80 mm

SIZE DESIGNATION	FITS ROPE CIRCUMFERENCE		COVERS SPliced ROPE CIRCUMFERENCE	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Small	2-3/4" – 3-3/4"	66 – 90 mm	2" – 3"	48 – 72 mm
Medium	4" – 5"	96 – 120 mm	3-1/2" – 4-1/8"	84 – 100 mm
Large	5-1/2" – 9"	132 – 216 mm	4-1/2" – 8"	108 – 192 mm
Extra-Large	10" – 12"	240 – 288 mm	8-1/2" – 10"	204 – 240 mm



Saturn Dynalene is a great choice for mooring, tug, and offshore applications. Field repairable, rope is easily inspected without removal.

DC GARD™

PRODUCT CODE: 706

DC Gard is a tightly braided cover construction of Dyneema® fiber that is spliced onto the strength member to protect it from wear and abrasion in specific areas. Designed for use in applications like tug operations, where frequent handling and use put a premium on rope protection and resistance to snagging. For vessels where frequent mooring operations are the norm, *DC Gard* provides maximum protection for working ropes. PATENT PENDING.

FEATURES:

- > Light and flexible
- > Floats
- > Can be removed for rope inspection
- > Cut resistant
- > Superior durability

If operating in regions where extreme heat is an issue, contact Customer Service for information about Samson's TC Gard (707) made with Technora®.

DC Gard provides maximum protection for working ropes.



TC GARD PRODUCT CODE: 707

SIZE DESIGNATION	FITS ROPE DIAMETER		COVERS SPliced ROPE DIAMETER	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size C	1" – 1-1/4"	24 – 30 mm	9/16" – 5/8"	14 – 16 mm
Size D	1-5/16" – 1-3/4"	32 – 44 mm	3/4" – 1"	18 – 24 mm
Size E	1-7/8" – 2-1/2"	46 – 60 mm	1-1/8" – 1-3/8"	28 – 34 mm
Size F	2-5/8" – 3-1/8"	64 – 76 mm	1-1/2" – 1-3/4"	36 – 44 mm
Size G	3-1/4" – 4-1/4"	80 – 104 mm	1-7/8" – 2-3/8"	45 – 57 mm
Size H	4-1/2" – 5-3/4"	110 – 146 mm	2-1/2" – 3-1/4"	60 – 80 mm
Size I	6" – 6-3/4"	152 – 172 mm	3-1/2" – 3-3/4"	86 – 92 mm
Size J	7" – 7-3/4"	178 – 196 mm	4" – 4-1/2"	96 – 110 mm
Size K	8"	204 mm	4-5/8" – 5"	112 – 120 mm
Size L	N/A	N/A	5-1/4" – 5-3/4"	128 – 146 mm
Size M	N/A	N/A	6" – 6-1/2"	152 – 164 mm
Size N	N/A	N/A	6-5/8" – 7"	168 – 178 mm
Size O	N/A	N/A	7-1/4" – 8"	184 – 204 mm

SIZE DESIGNATION	FITS ROPE CIRCUMFERENCE		COVERS SPliced ROPE CIRCUMFERENCE	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size C	3" – 3-3/4"	72 – 90 mm	1-3/4" – 2"	42 – 48 mm
Size D	4" – 5-1/2"	96 – 132 mm	2-1/4" – 3"	54 – 72 mm
Size E	5-5/8" – 7-1/2"	136 – 180 mm	3-1/2" – 4-1/8"	84 – 100 mm
Size F	8" – 9-1/2"	192 – 228 mm	4-1/2" – 5-1/2"	108 – 132 mm
Size G	10" – 13"	240 – 312 mm	5-5/8" – 7-1/8"	136 – 174 mm
Size H	13-1/2" – 17-1/4"	328 – 438 mm	7-1/2" – 10"	180 – 240 mm
Size I	18" – 20-1/4"	456 – 516 mm	10-1/2" – 11-1/4"	254 – 272 mm
Size J	21" – 23-1/4"	534 – 588 mm	12" – 13-1/2"	288 – 328 mm
Size K	24"	612 mm	14" – 15"	336 – 360 mm
Size L	N/A	N/A	16" – 17-1/4"	384 – 438 mm
Size M	N/A	N/A	18" – 19-1/2"	456 – 492 mm
Size N	N/A	N/A	20" – 21"	504 – 534 mm
Size O	N/A	N/A	22" – 24"	552 – 612 mm

Can be removed for rope inspection, excellent choice for tug and mooring applications.

PRODUCT CODE: 705

DC Moor-Gard has been redesigned and optimized for lower operating temperatures and longer life for your mooring lines. This new patent pending design is modeled after Samson's robust Turbo series of covers for jacketed ropes and is made of 100% Dyneema® fiber. It features Samson's proprietary Saturn coating for enhanced abrasion resistance and reduced friction between the rope and chafe guard. PATENT PENDING.

SIZE DESIGNATION	FITS ROPE DIAMETER	
	INCHES	MILLIMETERS
Size E	1" – 1-3/4"	24 – 44 mm
Size F	1-7/8" – 2-1/4"	46 – 56 mm
Size G	2-3/8" – 3-1/4"	57 – 80 mm

SIZE DESIGNATION	FITS ROPE CIRCUMFERENCE	
	INCHES	MILLIMETERS
Size E	3" – 5-1/4"	72 – 132 mm
Size F	5-5/8" – 7"	138 – 168 mm
Size G	7" – 10"	171 – 240 mm



FEATURES:

- > Fixed or adjustable for easy positioning
- > Lightweight
- > Flexible
- > Floats



TECHNOLENE™

PRODUCT CODE: 976

The construction of *Technolene* is similar to *Dynalene*, but the fiber composition is Technora®, an aramid fiber with very high heat resistance. *Technolene* should be specified where synthetic ropes are subject to both abrasion and high temperatures from reflected heat sources or friction.

FEATURES:

- > Excellent heat resistance for high heat applications/environments
- > Easy inspection without removal
- > Excellent durability and cut resistance

SIZE DESIGNATION	FITS ROPE DIAMETER		COVERS SPLICED ROPE DIAMETER	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Small	7/8" – 1-1/4"	22 – 30 mm	5/8" – 1"	16 – 24 mm
Medium	1-5/16" – 1-5/8"	32 – 40 mm	1-1/8" – 1-3/8"	28 – 34 mm
Large	1-3/4" – 3"	44 – 72 mm	1-1/2" – 2-5/8"	36 – 64 mm
Extra-Large	3-1/4" – 4"	80 – 96 mm	2-3/4" – 3-1/4"	68 – 80 mm

SIZE DESIGNATION	FITS ROPE CIRCUMFERENCE		COVERS SPLICED ROPE CIRCUMFERENCE	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Small	2-3/4" – 3-3/4"	66 – 90 mm	2" – 3"	48 – 72 mm
Medium	4" – 5"	96 – 120 mm	3-1/2" – 4-1/8"	84 – 100 mm
Large	5-1/2" – 9"	132 – 216 mm	4-1/2" – 8"	108 – 192 mm
Extra-Large	10" – 12"	240 – 288 mm	8-1/2" – 10"	204 – 240 mm

Excellent protection that allows for easy inspection without removal.



Superior heat and abrasion resistance in high ambient heat applications.

technora®
The Power of Aramid

CHAFE GEAR

CHAFE-PRO® FS

PRODUCT CODE: 970

Chafe-Pro® FS provides critical protection for high-performance mooring lines. It has the same great Chafe-Pro® material, but is custom designed specifically for Samson to have a free-sliding fit.

It is durable, easily installed either before the lines are deployed or after. Chafe-Pro® FS is built to last. Multiple layers of specially-formulated, heavy-duty nylon and extremely durable thread provide maximum flexibility. It is easily positioned wherever lines pass through chocks or across fairleads anywhere the lines may be subject to abrasion. A simple hook-and-loop closure allows the Chafe-Pro® FS sleeve to be quickly installed or repositioned where needed. There are attachment points at both ends for tag lines to keep the sleeve in position.

FEATURES & BENEFITS

- > Ease of installation and removal, no lacing or lashing required
- > Highly resistant to abrasion
- > Resistant to UV damage
- > Highly flexible

SIZE DESIGNATION	FITS ROPE DIAMETER		COVERS SPliced ROPE DIAMETER	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size C	1" – 1-1/2"	24 – 36 mm	1/2" – 3/4"	12 – 18 mm
Size D	1-9/16" – 2-1/4"	38 – 56 mm	25/32" – 1-1/4"	19 – 30 mm
Size E	2-3/8" – 3-1/8"	57 – 76 mm	1-5/16" – 1-9/16"	32 – 38 mm

SIZE DESIGNATION	FITS ROPE CIRCUMFERENCE		COVERS SPliced ROPE CIRCUMFERENCE	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size C	3" – 4-1/2"	72 – 108 mm	1-1/2" – 2-1/4"	36 – 54 mm
Size D	4-3/4" – 7"	114 – 168 mm	2-3/8" – 3-3/4"	57 – 90 mm
Size E	7-1/8" – 9-1/2"	174 – 228 mm	4" – 4-3/4"	96 – 114 mm



PRO-GARD™

Pro-Gard Eye Protector is gusseted at the apex for a better fit.

EYE PROTECTOR PRODUCT CODE: 973

Pro-Gard is constructed of dual-woven fabric layers made with HMPE fiber. The finer inner layer allows the rope to adjust to load, while the thicker outer layer is coated to provide a high coefficient of friction to minimize movement on the contact surface. Lightweight Pro-Gard is easily installed in the field, won't absorb water, and floats. Available in 20", 30", 40", and 50" legs.

ROPE PROTECTOR PRODUCT CODE: 974

The hook and loop feature of this product allows this chafe protector to be easily applied over the rope.

FEATURES:

- > Great weight to durability ratio
- > Great abrasion resistance
- > Easy to install and remove for replacement or rope inspection
- > Won't absorb water
- > Floats

SIZE DESIGNATION	FITS ROPE DIAMETER	
	INCHES	MILLIMETERS
Size A	3/8" – 5/8"	9 – 16 mm
Size B	3/4" – 1"	18 – 24 mm
Size C	1-1/8" – 1-3/4"	28 – 44 mm
Size D	1-7/8" – 2-1/2"	46 – 60 mm
Size E	2-5/8" – 3-1/4"	64 – 80 mm

SIZE DESIGNATION	FITS ROPE CIRCUMFERENCE	
	INCHES	MILLIMETERS
Size A	1-1/8" – 2"	27 – 48 mm
Size B	2-1/4" – 3"	54 – 72 mm
Size C	3-1/2" – 5-1/2"	84 – 132 mm
Size D	5-5/8" – 7-1/2"	138 – 180 mm
Size E	8" – 10"	192 – 240 mm

PRO-MOOR™

SIZE DESIGNATION	FITS ROPE DIAMETER		FITS ROPE CIRCUMFERENCE	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size B	1-1/8" – 1-1/2"	28 – 36 mm	3-1/2" – 4-1/2"	84 – 108 mm
Size C	1-5/8" – 2"	40 – 48 mm	5" – 6"	120 – 144 mm
Size D	2-1/8" – 2-1/2"	52 – 60 mm	6-1/2" – 7-1/2"	156 – 180 mm
Size E	2-5/8" – 3"	64 – 72 mm	8" – 9"	192 – 216 mm

PRODUCT CODE: 977

The *Pro-Moor* product has all of the features of the *Pro-Gard* product but since it's tubular, it is generally installed on the product before it leaves the factory.

FEATURES:

- > Versatile, may be fixed or adjustable

IFH CHAFE-GARD™

SIZE DESIGNATION	FITS ROPE DIAMETER		FITS ROPE CIRCUMFERENCE	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
Size A	1-1/8" – 2"	28 – 48 mm	3-1/2" – 6"	84 – 144 mm
Size B	2-1/8" – 3"	52 – 72 mm	6-1/2" – 9"	156 – 216 mm
Size C	2-1/2" – 3-3/4"	60 – 92 mm	7-1/2" – 11-1/4"	180 – 272 mm

PRODUCT CODE: 999601

IFH (Inverted Fire Hose) Chafe-Gard protects your mooring lines from chock wear. The polyester lining allows mooring lines to adjust under tension while the rubberized exterior's high coefficient of friction minimizes movement on the chock. Grommets at each end allow attachment of control lines. Each size comes in standard 8-foot lengths.

FEATURES:

- > Economical
- > Durable
- > Adjustable or fixed positioning

COR-GARD™

SIZE	FITS ROPE DIAMETER		FITS ROPE CIRCUMFERENCE	
	INCHES	MILLIMETERS	INCHES	MILLIMETERS
2	3/4" – 1"	18 – 24 mm	2-1/4" – 3"	54 – 72 mm
3	1" – 1-1/2"	24 – 36 mm	3" – 4-1/2"	72 – 108 mm
4	1-5/8" – 2-1/8"	40 – 52 mm	5" – 6-1/2"	120 – 156 mm
5	2-1/4" – 2-5/8"	56 – 64 mm	7" – 8"	168 – 192 mm
6	2-3/4" – 3-1/4"	68 – 80 mm	8-1/2" – 10"	204 – 240 mm
8	3-3/8" – 4"	82 – 96 mm	10-1/8" – 12"	246 – 288 mm
10	4-1/8" – 4-5/8"	100 – 112 mm	12-1/2" – 14"	300 – 336 mm

PRODUCT CODE: R6

Cor-Gard Chafe Protector is a woven product that is produced in a tube format. This product is commonly added to the eyes of working lines and can be installed on the rope as well.

FEATURES:

- > Economical
- > Durable

Cor-Gard can be installed on rope as well as on eyes.

ROPE HARDWARE

Thimbles are designed to protect the rope's eye from cuts and kinking. Samson can supply thimbles in plastic, galvanized steel, bronze, stainless steel, or painted steel. The intended use and type of rope will determine the appropriate thimble to be specified.

Certification of thimbles is not standard practice, and Samson does not provide ratings for thimbles used in our rope systems.

The working load limit (WLL) includes the combination of all applied loads, static and dynamic, based on normal service. The WLL does not represent the loss of strength in the thimble or rope due to creep and other mechanical, chemical, and environmental factors.

Never use a thimble that is smaller than the size suggested for the rope diameter.

ROPE THIMBLES

Please see individual product descriptions for exact sizing and specifications.

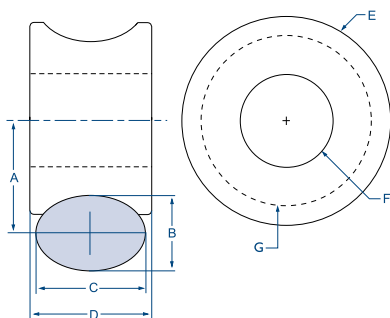
Please see individual product descriptions for exact sizing and specifications.			FITS ROPE DIAMETER See product specs for exact sizes													
			1/4"-1/2"	3/4"-1"	1-1/4"-1-1/2"	1-3/4"-2"	2-1/4"-2-1/2"	2-3/4"-3"	3-1/4"-3-1/2"	3-3/4"-4"	4-1/4"-4-1/2"	4-3/4"-5"	5-1/4"-5-1/2"	5-3/4"-6"	6-1/4"-6-1/2"	6-3/4"-7"
PRODUCT NAME	FAMILY CODE	PAGE														
Blue Line Thimble	930	49														
Bronze Thimble	920	50														
Galvanized HD Wire Thimble	924	50														
Heavy Duty Hawser Thimble	933	49														
Composite Thimble	963	48														

COMPOSITE THIMBLE

PRODUCT CODE: 963

The Composite Thimble is a means of attaching synthetic ropes to other ropes or equipment, typically via a shackle. Products made from composite materials have exceptional wear resistance and limited swelling in water, which provides dimensional stability. They offer resistance to edge loading and misalignment even with the heaviest loads and are appropriately suited to handle the high loading associated with high performance (Class II) ropes.

SIZE DESIGNATION Rope Diameter		SIZE DESIGNATION Rope Circumference		SHACKLE Pin Diameter INCHES	Jaw Winch INCHES	Working Load Limit TONS
INCHES	MILLIMETERS	INCHES	MILLIMETERS			
7/8"	22 mm	2-3/4"	68 mm	1"	1.4"	6.5 tons
1"	24 mm	3"	72 mm	1-1/8"	1.7"	8.5 tons
1-1/8"	28 mm	3-1/2"	86 mm	1-1/4"	1.8"	9.5 tons
1-1/4"	30 mm	3-3/4"	92 mm	1-3/8"	2.0"	12.0 tons
1-3/8"	34 mm	4-1/4"	104 mm	1-1/2"	2.3"	13.5 tons
1-1/2"	36 mm	4-1/2"	110 mm	1-5/8"	2.4"	17.0 tons
1-3/4"	44 mm	5-1/2"	134 mm	2"	2.9"	25.0 tons
2"	48 mm	6"	152 mm	2-1/4"	3.3"	35.0 tons
2-1/2"	60 mm	7-1/2"	190 mm	2-3/4"	4.1"	55.0 tons
3"	72 mm	9"	216 mm	3-1/4"	5.0"	85.0 tons



A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES	G INCHES
1.38	0.88	1.19	1.32	2.31	1.02	1.88
1.56	1.00	1.44	1.56	2.53	1.16	2.12
1.75	1.13	1.56	1.69	2.94	1.27	2.37
1.94	1.25	1.66	1.84	3.25	1.40	2.63
2.13	1.38	1.88	2.06	3.56	1.53	2.88
2.31	1.50	2.00	2.19	3.88	1.65	3.12
2.75	1.75	2.38	2.63	4.63	2.06	3.75
3.13	2.00	2.75	3.00	5.25	2.31	4.26
3.88	2.50	3.63	3.88	6.50	2.81	5.26
4.63	3.00	4.50	4.75	7.75	3.31	6.26



BLUE LINE THIMBLE

PRODUCT CODE: 930

The Blue Line Thimble is compatible with Samson's high-performance, high-modulus synthetic fiber rope products such as *AmSteel®-Blue*, *Force-8*, and *DPX™-75*. The tubular, gusseted design creates a high-strength thimble that protects the rope and maintains the proper bending radius when connected to mating hardware.

SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Circumference	Thimble Wt. POUNDS	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES
3/16" – 3/8"	9/16" – 1-1/8"	0.80 lb	0.50"	3.3"	0.90"	0.20"	0.30"	0.90"
7/16" – 1/2"	1-1/4" – 1-1/2"	1.1 lb	0.60"	3.7"	1.1"	0.20"	0.40"	1.2"
9/16" – 5/8"	1-3/4" – 2"	1.4 lb	0.70"	4.4"	1.3"	0.20"	0.50"	1.8"
3/4" – 7/8"	2-1/4" – 2-3/4"	2.8 lb	1.0"	5.9"	1.8"	0.20"	0.60"	2.4"
1" – 1-1/8"	3" – 3-1/2"	5.5 lb	1.4"	7.5"	2.4"	0.30"	0.90"	2.9"
1-1/4" – 1-1/2"	3-3/4" – 4-1/2"	8.2 lb	1.8"	9.0"	2.8"	0.30"	1.1"	3.7"
1-9/16" – 1-3/4"	4-3/4" – 5-1/2"	10.3 lb	2.0"	10.0"	3.0"	0.30"	1.2"	3.8"
1-7/8" – 2"	5-5/8" – 6"	10.8 lb	2.2"	10.6"	3.1"	0.30"	1.4"	3.9"
2-1/16" – 2-1/8"	6-1/4" – 6-1/2"	15.2 lb	2.4"	10.2"	3.3"	0.30"	2.4"	4.5"
2-1/4" – 2-5/8"	7" – 8"	30.2 lb	3.1"	14.6"	3.3"	0.30"	3.0"	4.9"
2-11/16" – 3-1/2"	8-1/4" – 10-1/2"	46.5 lb	3.9"	17.1"	5.9"	0.30"	3.3"	6.3"



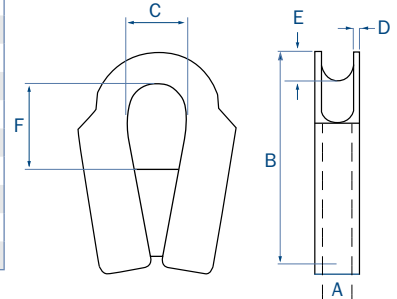
Stainless steel
available upon request.
Also available in
powder-coated black.



Reinforced
thimble for rope
diameters
2-1/8" (52 mm)
and above.

SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Circumference	Thimble Wt. KILOGRAMS	A mm	B mm	C mm	D mm	E mm	F mm
5 – 9 mm	15 – 27 mm	0.40 kg	12 mm	84 mm	23 mm	4 mm	8 mm	24 mm
11 – 12 mm	33 – 36 mm	0.50 kg	15 mm	95 mm	27 mm	5 mm	10 mm	31 mm
14 – 16 mm	42 – 48 mm	0.70 kg	19 mm	112 mm	32 mm	5 mm	12 mm	46 mm
18 – 22 mm	54 – 66 mm	1.3 kg	25 mm	150 mm	45 mm	6.3 mm	16 mm	61 mm
24 – 28 mm	72 – 84 mm	2.5 kg	35 mm	190 mm	60 mm	7 mm	22 mm	73 mm
30 – 36 mm	90 – 108 mm	3.7 kg	45 mm	228 mm	70 mm	7 mm	27 mm	94 mm
38 – 44 mm	114 – 132 mm	4.7 kg	50 mm	255 mm	75 mm	7 mm	31 mm	97 mm
46 – 48 mm	138 – 144 mm	4.9 kg	55 mm	268 mm	80 mm	7.5 mm	35 mm	99 mm
50 – 52 mm	150 – 156 mm	6.9 kg	60 mm	260 mm	85 mm	7 mm	60 mm	115 mm
56 – 64 mm	168 – 192 mm	13.7 kg	80 mm	370 mm	85 mm	7 mm	75 mm	125 mm
66 – 86 mm	196 – 254 mm	21.1 kg	98 mm	435 mm	150 mm	7 mm	85 mm	160 mm

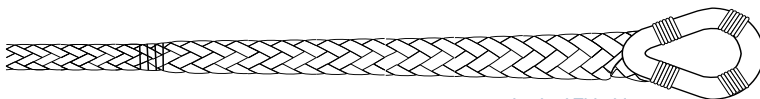
For use with Ultra Blue-8 add 1/4" (6 mm) to the rope diameter to determine the appropriate thimble size.



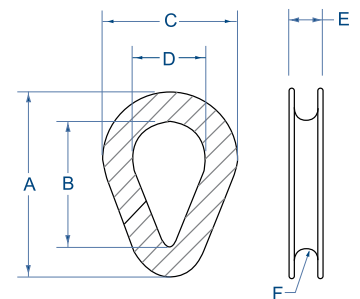
H.D. HAWSER THIMBLE

PRODUCT CODE: 933

The cast-steel Heavy Duty Hawser Thimble is designed for use with wire rope or high-performance synthetic fiber ropes such as *AmSteel®-Blue*, *Force-8*, and *DPX™-75*. The galvanized thimble provides smooth and even grooves, maximum strength in critical areas, and the proper bending radius for the rope. When used with synthetic ropes, the thimble eye should be lashed at approximately 2, 4, 8, and 10 o'clock on the thimble circumference to secure it to the rope when not in service.



Lashed Thimble



HARDWARE

SIZE DESIGNATION Fits Rope Diameter	SIZE DESIGNATION Fits Rope Circumference	Thimble Wt. POUNDS	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES	SIZE DESIGNATION Fits Rope Diameter	SIZE DESIGNATION Fits Rope Circumference	Thimble Wt. KILOGRAMS
5/8" – 3/4"	2" – 2-1/4"	3.5 lb	6.9"	4.5"	5.0"	3.0"	1.2"	0.40"	16 – 18 mm	48 – 54 mm	1.6 kg
7/8" – 1"	2-3/4" – 3"	6.0 lb	8.6"	5.8"	6.3"	3.8"	1.4"	0.50"	22 – 24 mm	66 – 72 mm	2.7 kg
1-1/8" – 1-1/4"	3-1/2" – 3-3/4"	9.5 lb	10.1"	6.8"	7.3"	4.3"	1.7"	0.7"	28 – 30 mm	84 – 90 mm	4.3 kg
1-3/8" – 1-1/2"	4-1/8" – 4-1/2"	18.5 lb	12.1"	8.0"	8.8"	5.0"	2.2"	0.9"	34 – 36 mm	100 – 108 mm	8.4 kg
1-5/8" – 1-3/4"	5" – 5-1/2"	24.0 lb	12.8"	8.0"	9.3"	5.0"	2.4"	0.9"	40 – 44 mm	120 – 132 mm	10.9 kg
1-7/8" – 2"	5-5/8" – 6"	33.5 lb	14.8"	9.5"	10.8"	6.0"	2.7"	1.1"	46 – 48 mm	138 – 144 mm	15.2 kg
2-1/8" – 2-1/4"	6-1/2" – 7"	53.5 lb	17.1"	11.0"	12.5"	7.0"	3.1"	1.2"	52 – 56 mm	156 – 168 mm	24.3 kg
2-3/8" – 2-1/2"	7-1/8" – 7-1/2"	81.5 lb	19.3"	12.8"	14.3"	8.3"	3.9"	1.4"	58 – 60 mm	174 – 180 mm	37.0 kg
2-3/4" – 3"	8-1/2" – 9"	137 lb	24.5"	15.0"	17.0"	9.4"	4.9"	1.6"	68 – 72 mm	204 – 216 mm	61.9 kg

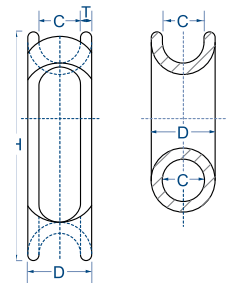
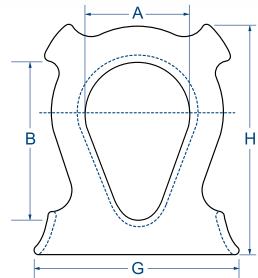
For use with Ultra Blue-8 add 1/4" (6 mm) to the rope diameter to determine the appropriate thimble size.

BRONZE THIMBLE

PRODUCT CODE: 920 Bronze Rope Thimbles are made from a high strength, noncorrosive, nonsparking nickel-aluminum bronze alloy, ideal for marine applications. This rope thimble was developed primarily for use with nylon, manila, polypropylene, and polyvinyl chloride ropes. Four rings or "keepers" secure the rope from jumping out of the thimble. Eighteen sizes are available in rope diameter sizes 3/8" to 4-3/4".

SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Diameter	Shackle Size INCHES	A INCHES	B INCHES	C INCHES	D INCHES	G INCHES	H INCHES	T INCHES	Weight POUNDS	Weight KILOGRAMS
3/8" – 7/16"	9 – 11 mm	3/8"	7/8"	1-1/2"	9/16"	3/4"	2-1/16"	2-7/16"	3/32"	0.20 lb	0.09 kg
1/2" – 9/16"	12 – 14 mm	3/8"	1"	1-5/8"	11/16"	29/32"	2-3/8"	2-13/16"	7/64"	0.40 lb	0.18 kg
5/8"	16 mm	1/2"	1-1/8"	2"	7/8"	1-1/8"	3-1/8"	3-1/2"	1/8"	0.60 lb	0.27 kg
3/4" – 15/16"	18 – 23 mm	5/8"	1-1/4"	2-5/16"	1-1/16"	1-3/8"	3-3/4"	4-3/16"	5/32"	0.90 lb	0.41 kg
1"	24 mm	3/4"	1-5/8"	2-3/4"	1-3/16"	1-9/16"	4-1/4"	4-11/16"	3/16"	1.60 lb	0.73 kg
1-1/8" – 1-1/4"	28 – 30 mm	7/8"	1-7/8"	3-1/16"	1-7/16"	1-27/32"	5-1/16"	5-3/16"	13/64"	2.10 lb	1.00 kg
1-5/16"	32 mm	7/8"	2-1/8"	3-5/8"	1-1/2"	1-15/16"	5-1/2"	5-13/16"	7/32"	2.60 lb	1.20 kg
1-1/2"	36 mm	1"	2-3/8"	4-1/16"	1-11/16"	2-5/32"	6-1/4"	6-1/2"	15/64"	3.70 lb	1.70 kg
1-5/8"	40 mm	1-1/8"	2-5/8"	4-1/2"	1-13/16"	2-5/16"	6-3/4"	7-1/16"	1/4"	4.80 lb	2.20 kg
1-3/4"	44 mm	1-1/4"	2-7/8"	4-15/16"	2"	2-17/32"	7-3/8"	7-3/4"	17/64"	6.80 lb	3.10 kg
2"	48 mm	1-1/4"	3-1/8"	5-3/8"	2-1/4"	2-13/16"	8-3/8"	8-5/8"	9/32"	7.70 lb	3.50 kg
2-1/8"	52 mm	1-3/8"	3-1/2"	5-13/16"	2-3/8"	2-31/32"	9"	9-1/8"	19/64"	9.50 lb	4.30 kg
2-1/4"	56 mm	1-1/2"	3-7/8"	6-1/4"	2-1/2"	3-1/8"	9-3/8"	9-5/8"	5/16"	11.0 lb	5.00 kg
2-5/8"	64 mm	1-5/8"	4-3/8"	7"	2-7/8"	3-5/8"	10-5/8"	10-3/4"	3/8"	16.5 lb	7.50 kg
3"	68 – 70 mm	2"	4-7/8"	8"	3-1/4"	4-1/8"	11-3/4"	12-1/8"	7/16"	25.0 lb	11.3 kg
3-1/4"	72 – 80 mm	2"	5-3/8"	9-1/4"	3-1/2"	4-1/2"	13-1/8"	13-7/8"	1/2"	38.0 lb	17.2 kg
3-3/4"	92 mm	—	8"	10"	4"	5-3/8"	14-5/8"	15-1/2"	11/16"	60.0 lb	27.2 kg
4-3/4"	116 mm	—	9"	12-1/2"	6-3/8"	8-3/8"	22-7/8"	21-1/2"	1"	225 lb	102 kg

Not recommended for use with Class II ropes. Dimensions are approximate—within standard foundry practice.

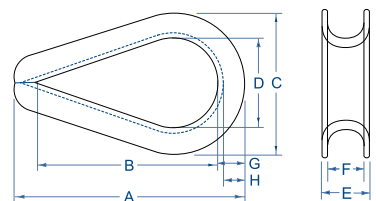


GALVANIZED HD WIRE THIMBLE

PRODUCT CODE: 924 The Wire Thimble protects against wear and deformation of the rope eye. Designed with the proper bending radius to maintain rope strength and provide longer service life. This thimble meets the performance requirements of Federal Specifications FF-T-276b Type III (except for those provisions required of the contractor.)

SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Diameter	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES	G INCHES	H INCHES	Weight POUNDS	Weight KILOGRAMS
1/4"	6 mm	2.2"	1.6"	1.5"	0.90"	0.40"	0.30"	0.10"	0.30"	0.07 lb	0.03 kg
5/16"	8 mm	2.5"	1.9"	1.8"	1.1"	0.50"	0.30"	0.10"	0.30"	0.12 lb	0.05 kg
3/8"	9 mm	2.9"	2.1"	2.1"	1.1"	0.60"	0.40"	0.10"	0.40"	0.22 lb	0.10 kg
7/16"	11 mm	3.3"	2.4"	2.4"	1.3"	0.70"	0.50"	0.10"	0.50"	0.35 lb	0.16 kg
1/2" – 9/16"	12 – 14 mm	3.6"	2.8"	2.8"	1.5"	0.90"	0.60"	0.20"	0.50"	0.51 lb	0.23 kg
5/8"	16 mm	4.3"	3.3"	3.1"	1.8"	1.0"	0.70"	0.20"	0.50"	0.76 lb	0.34 kg
3/4"	18 mm	5.0"	3.8"	3.8"	2.0"	1.2"	0.80"	0.20"	0.70"	1.58 lb	0.72 kg
7/8"	22 mm	5.5"	4.3"	4.3"	2.3"	1.4"	0.90"	0.20"	0.80"	1.78 lb	0.81 kg
1"	24 mm	6.1"	4.5"	4.8"	2.5"	1.6"	1.1"	0.30"	0.90"	3.14 lb	1.42 kg
1-1/8" – 1-1/4"	28 – 30 mm	7.0"	5.1"	5.9"	2.9"	1.9"	1.3"	0.30"	1.3"	4.00 lb	1.81 kg
1-1/4" – 1-3/8"	30 – 34 mm	9.9"	6.5"	6.8"	3.5"	2.3"	1.4"	0.40"	1.3"	8.11 lb	3.68 kg
1-3/8" – 1-1/2"	34 – 36 mm	9.0"	6.3"	7.1"	3.5"	2.6"	1.6"	0.50"	1.3"	13.0 lb	5.87 kg
1-5/8"	40 mm	11.3"	8.0"	8.1"	4.0"	3.0"	1.7"	0.50"	1.4"	17.0 lb	7.71 kg
1-3/4"	44 mm	12.2"	9.0"	8.5"	4.5"	3.5"	1.8"	0.50"	1.5"	17.8 lb	8.05 kg
1-7/8" – 2"	45 – 48 mm	15.1"	12.0"	10.4"	6.0"	3.4"	2.1"	0.50"	1.7"	27.8 lb	12.6 kg
2-1/4"	56 mm	17.5"	14.0"	11.9"	7.0"	3.9"	2.4"	0.60"	1.8"	39.5 lb	17.9 kg

Not recommended for use with Class II ropes.



SPOOLS, SHIELDS, AND SHACKLE ASSEMBLY

Easily installed into or removed from a pre-made soft eye. *Nylite* spool is only 1/7th the weight of steel. Connectors will not deform or rupture from repeated loadings. The shackle takes advantage of the high-strength *Nylite* connector and synthetic rope.

WORKING DETAILS

- > Working loads listed are in tons (2,000 lb).
- > Working loads, as given, are based on pin-bore relationship provided by use of the *Nylite* Shackle. When using a non-standard pin, the working load as given DOES NOT APPLY.
- > The HP aluminum spool is available for use with high-performance Class II ropes in sizes -1 through -5.
- > Aluminum spools are not recommended for continuous use in submerged marine environments.
- > All working load values are based on a 4:1 safety factor.
- > Assembly ratings are based on the use of designated spools and shackles. Spools used in conjunction with other hardware are not rated by Samson.



NYLITE SHIELDS PRODUCT CODE: 969

Nylite shields are designed for use with specific rope, spool, and shackle sizes. See chart below for information.



NYLITE SPOOLS

PRODUCT CODE: 969



SHACKLES

PRODUCT CODE: 961

The shackle working load limit (WLL) is stamped on each shackle.

-1 and -2 shackles are Electrolytic Zinc coated per ASTM B633-07 SC2 Type III.

Sizes -3 through -9 shackles are hot-dip galvanized per ASTM A123.

CLASS I ASSEMBLY *Nylite* Assembly with Nylon Spool

Shackle Type	Product Code	Size	Shield Color	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size INCHES	Assembly Working Load TONS	Weight Each POUNDS	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size MM	Assembly Working Load TONS	Weight Each KG
				MIN.	MAX	MIN.	MAX				MIN.	MAX	MIN.	MAX			
Zinc Plated	964-0320	-1	Blue	3/8"	1/2"	1-1/8"	1-1/2"	2-3/16"	1.1 tons	0.50 lb	9 mm	12 mm	27 mm	36 mm	55.6 mm	1.0 tons	0.23 kg
Zinc Plated	964-0400	-2	Red	9/16"	5/8"	1-3/4"	2"	2-3/4"	1.6 tons	1.0 lb	14 mm	16 mm	42 mm	48 mm	68 mm	1.5 tons	0.45 kg
Galvanized	964-0520	-3	Green	3/4"	13/16"	2-1/4"	2-1/2"	3-3/4"	2.5 tons	1.6 lb	18 mm	20 mm	54 mm	60 mm	92 mm	2.3 tons	0.73 kg
Galvanized	964-0680	-4	Orange	7/8"	1-1/16"	2-3/4"	3-1/4"	4-7/8"	4.5 tons	3.8 lb	22 mm	26 mm	66 mm	78 mm	124 mm	4.1 tons	1.7 kg
Galvanized	964-0840	-5	Black	1-1/8"	1-5/16"	3-1/2"	4"	6-1/8"	7.5 tons	6.2 lb	28 mm	32 mm	84 mm	96 mm	156 mm	6.8 tons	2.8 kg
Galvanized	964-1120	-6	Yellow	1-1/2"	1-3/4"	4-1/2"	5-1/2"	7-5/8"	12.5 tons	19.0 lb	36 mm	44 mm	108 mm	132 mm	194 mm	11.3 tons	8.6 kg
Galvanized	964-1440	-7	Black	2"	2-1/4"	6"	7"	9-3/4"	20.0 tons	24.0 lb	48 mm	56 mm	144 mm	168 mm	248 mm	18.1 tons	10.9 kg
Galvanized	964-1680	-8	Black	2-1/2"	2-5/8"	7-1/2"	8"	11-1/4"	25.0 tons	38.0 lb	60 mm	64 mm	180 mm	192 mm	286 mm	22.7 tons	17.2 kg
Galvanized	964-2080	-9	Black	2-3/4"	3-1/4"	8-1/2"	10"	14"	35.0 tons	64.0 lb	68 mm	80 mm	204 mm	240 mm	356 mm	31.8 tons	29.0 kg

-1 and -2 shackles are Electrolytic Zinc coated per ASTM B633-07 SC2 Type III. Sizes -3 through -9 shackles are hot-dip galvanized per ASTM A123.

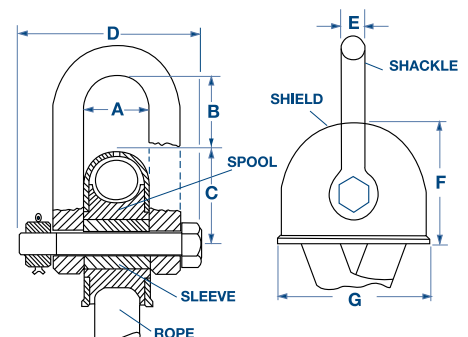
CLASS II ASSEMBLY *Nylite* Assembly with HP Aluminum Spool

Shackle Type	Product Code	Size	Shield Color	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size INCHES	Assembly Working Load TONS	Weight Each POUNDS	Fits Rope Diameter		Fits Rope Circumference		Samson Minimum Eye Size MM	Assembly Working Load TONS	Weight Each KG
				MIN.	MAX	MIN.	MAX				MIN.	MAX	MIN.	MAX			
Zinc Plated	964-0321	-1	Blue	3/8"	1/2"	1-1/8"	1-1/2"	2-3/16"	2.7 tons	0.53 lb	9 mm	12 mm	27 mm	36 mm	56.6 mm	2.4 tons	1.2 kg
Zinc Plated	964-0401	-2	Red	9/16"	5/8"	1-3/4"	2"	2-3/4"	4.8 tons	1.1 lb	14 mm	16 mm	42 mm	48 mm	68 mm	4.4 tons	2.3 kg
Galvanized	964-0521	-3	Green	3/4"	13/16"	2-1/4"	2-1/2"	3-3/4"	5.8 tons	1.8 lb	18 mm	20 mm	54 mm	60 mm	92 mm	5.3 tons	3.9 kg
Galvanized	964-0681	-4	Orange	7/8"	1-1/16"	2-3/4"	3-1/4"	4-7/8"	11.5 tons	4.1 lb	22 mm	26 mm	66 mm	78 mm	124 mm	10.4 tons	9.1 kg
Galvanized	964-0841	-5	Black	1-1/8"	1-5/16"	3-1/2"	4"	6-1/8"	14.0 tons	6.8 lb	28 mm	32 mm	84 mm	96 mm	156 mm	12.7 tons	14.9 kg

-1 and -2 shackles are Electrolytic Zinc coated per ASTM B633-07 SC2 Type III. Sizes -3 through -5 shackles are hot-dip galvanized per ASTM A123.

Size	Spool Inside Dia.	Spool Outside Dia.	Pin Diameter*	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES	G INCHES
-1	0.46"	1.50"	0.44"	0.88"	1.08"	1.11"	2.41"	0.38"	1.99"	2.34"
-2	0.58"	1.75"	0.56"	1.13"	1.21"	1.38"	3.11"	0.50"	2.38"	2.88"
-3	0.64"	2.25"	0.63"	1.38"	1.61"	1.77"	3.54"	0.56"	3.02"	3.70"
-4	0.89"	3.00"	0.88"	1.75"	1.90"	2.29"	4.70"	0.75"	3.79"	4.71"
-5	1.02"	3.75"	1.00"	2.13"	2.15"	2.85"	5.55"	0.88"	4.85"	5.95"
-6	1.54"	5.00"	1.50"	2.63"	3.14"	3.80"	7.75"	1.37"	6.30"	7.85"
-7	1.75"	6.25"	1.63"	3.25"	3.75"	4.80"	8.90"	1.50"	7.93"	9.89"
-8	2.00"	7.25"	1.75"	3.75"	4.13"	5.61"	10.13"	1.75"	9.24"	11.47"
-9	2.25"	9.00"	2.00"	4.63"	5.06"	6.95"	12.15"	2.00"	11.45"	14.28"

*Sizes -1 to -5 are supplied with jam nuts and cotter pins. Larger sizes have cotter pins and standard nuts.



MOORING PENDANTS (TAILS)

It is important to choose a mooring pendant that provides adequate elongation to reduce dynamic loads induced on the primary mooring lines, especially in exposed mooring berths.

Hardware, chafe protection and extra whipping can be added to pendants upon request.



Cow hitch connection, shown with pigtails to assist in separating the connection.

EFFICIENT MOORING PENDANTS Designed to reduce dynamic loads

Samson recommends the use of mooring pendants with our primary high-performance mooring lines to provide elasticity in the mooring system. This elasticity provides safer operations and protection from surging and shock loading, especially in exposed mooring berths. Pendants also provide long-term performance benefits and longer service life.



KEY ASPECTS OF MOORING PENDANTS (TAILS)

- > **CONNECTION** The tails are to be connected to the primary mooring line by cow hitch (see below, or by shackle or link—typically Mandel, Tonsburg, or Boss).
- > **RETIREMENT/RESIDUAL STRENGTH** Per OCIMF guidelines, it is recommended that mooring tails are retired after 18 months of use, or prior to residual strength reduction reaching 60% of the original minimum break strength (MBS).
- > **STANDARD LENGTH** The standard recommended overall length for mooring tails is 11 meters (36.1 feet); however, for exposed moorings a 22 meter (72.2 foot) tail provides additional elongation in the mooring arrangement.
- > **MINIMUM BREAK STRENGTH** Per OCIMF guidelines, polyester and blended mooring tails have a 25% higher MBS, and nylon (or polyamide) mooring tails should have a 37% higher MBS than the primary mooring line.

PENDANT (TAIL) CONFIGURATIONS



SINGLE-LEG

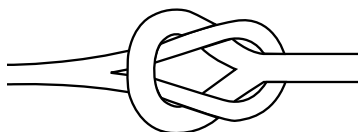
Standard single-leg pendants have a 2 meter (6.6 foot) soft eye on one end and a 1 meter (3.3 foot) soft eye on the other end. Hardware and chafe protection can be added upon request.



GROMMET (STROP)

Standard grommet pendants have 2 meter (6.6 foot) and 1 meter (3.3 foot) soft eyes formed by lashings. The body of the grommet is lashed together 3 meters (9.8 feet) from each eye lashing. Grommet strength is 1.6x the single-leg rope strengths. Hardware, chafe protection, and additional whipping can be added upon request.

COW-HITCH CONNECTION



After properly installing the mooring lines on the winch drum, the pendants should be attached to the working end of the mooring line. This is done by a cow-hitch connection per OCIMF guidelines.

HTP-12 PENDANT **PRODUCT CODE: 703** is a round-plait, 12-strand construction of high-tenacity polyester treated with our proprietary Pro-Gard™ marine finish. It has been tested and proven to meet the OCIMF guidelines of 85% strength efficiency for cow-hitch connections. HTP-12 is a safer, more efficient mooring pendant that provides higher residual strength when compared with parallel-core type constructions.

RP-12 NYLON PENDANT **PRODUCT CODE: 323** is a round-plait, 12-strand construction of nylon treated with our proprietary Pro-Gard marine finish. This combination provides reduced wet-strength loss, improved abrasion resistance, and high energy-absorbing properties in single-leg or grommet pendants. This line meets OCIMF guidelines and, in 22-meter (72.2-foot) lengths, provides additional elongation for exposed terminal moorings.

HTP-12™ PENDANTS PRODUCT CODE: 703

CONSTRUCTION: 12-strand Round Plait

FIBER: 100% High-tenacity polyester

COLOR: White with red and green tracers

FEATURES AND BENEFITS

- > High cow-hitch efficiency per OCIMF guidelines
- > Ideal for use with Mandel and Tonsberg shackles
- > Higher residual strength than parallel-core constructions
- > Good flex-fatigue resistance
- > Good shock absorption
- > Easy to inspect and splice
- > Pro-Gard Marine Finish

APPLICATIONS

- > Mooring pendant (tail)
- > Shock absorbing pendant
- > Tug assist working line

Size Diameter INCHES	Weight per 100 Ft. POUNDS	Samson Avg. Strength* POUNDS	Samson Min. Strength* POUNDS	Size Diameter MILLIMETERS	Weight per 100m KILOGRAMS	Samson Avg. Strength* KILOGRAMS	Samson Min. Strength* METRIC TONS	ISO 2307 Strength** METRIC TONS	Grommet (Strop) ISO*** METRIC TONS
1-1/2"	72.0 lb	91,800 lb	82,600 lb	36 mm	107 kg	41,600 kg	37.5 mt	41.6 mt	66.6 mt
1-5/8"	93.0 lb	113,000 lb	102,000 lb	40 mm	138 kg	51,300 kg	46.1 mt	51.3 mt	82.0 mt
1-3/4"	111 lb	136,000 lb	122,000 lb	44 mm	165 kg	61,700 kg	55.5 mt	61.7 mt	98.7 mt
1-7/8"	118 lb	145,000 lb	131,000 lb	46 mm	176 kg	65,800 kg	59.2 mt	65.8 mt	105 mt
2"	130 lb	167,000 lb	150,000 lb	48 mm	193 kg	75,800 kg	68.2 mt	75.8 mt	121 mt
2-1/8"	144 lb	181,000 lb	163,000 lb	52 mm	214 kg	82,100 kg	73.9 mt	82.1 mt	131 mt
2-1/4"	162 lb	210,000 lb	189,000 lb	56 mm	241 kg	95,300 kg	85.7 mt	95.3 mt	152 mt
2-3/8"	182 lb	231,000 lb	208,000 lb	57 mm	271 kg	105,000 kg	94.3 mt	105 mt	168 mt
2-1/2"	198 lb	242,000 lb	218,000 lb	60 mm	295 kg	110,000 kg	98.8 mt	110 mt	176 mt
2-5/8"	224 lb	267,000 lb	240,000 lb	64 mm	333 kg	121,000 kg	109 mt	121 mt	194 mt
2-3/4"	257 lb	296,000 lb	266,000 lb	68 mm	382 kg	134,000 kg	121 mt	134 mt	215 mt
2-7/8"	266 lb	317,000 lb	285,000 lb	70 mm	396 kg	144,000 kg	129 mt	144 mt	230 mt
3"	292 lb	332,000 lb	299,000 lb	72 mm	434 kg	151,000 kg	136 mt	151 mt	241 mt
3-1/8"	320 lb	361,000 lb	325,000 lb	76 mm	476 kg	164,000 kg	147 mt	164 mt	262 mt
3-3/16"	355 lb	397,000 lb	357,000 lb	78 mm	528 kg	180,000 kg	162 mt	180 mt	288 mt
3-7/16"	390 lb	430,000 lb	387,000 lb	84 mm	580 kg	195,000 kg	176 mt	195 mt	312 mt

* Spliced strength ** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.

*** Grommet ISO equals 1.6x single-leg rope strengths.

RP-12 NYLON™ PENDANTS PRODUCT CODE: 323

CONSTRUCTION: 12-strand Round Plait

FIBER: Nylon

COLOR: White

FEATURES AND BENEFITS

- > High strength
- > Shock mitigation
- > Excellent wet strength retention
- > Durable in wet conditions
- > Easy to splice
- > Single-leg or grommet configurations
- > 11- and 22-meter lengths
- > Meets OCIMF guidelines

APPLICATIONS

- > Traditional mooring tail
- > Exposed terminal moorings

Size Diameter INCHES	Weight per 100 Ft. POUNDS	Samson Avg. Strength* POUNDS	Samson Min. Strength* POUNDS	Size Diameter MILLIMETERS	Weight per 100m KILOGRAMS	Samson Avg. Strength* KILOGRAMS	Samson Min. Strength* METRIC TONS	ISO 2307 Strength** METRIC TONS	Grommet (Strop) ISO*** METRIC TONS
2"	95.9 lb	117,000 lb	99,500 lb	48 mm	143 kg	53,100 kg	45.1 mt	50.1 mt	80.2 mt
2-1/8"	113 lb	131,000 lb	111,000 lb	52 mm	168 kg	59,400 kg	50.5 mt	56.1 mt	89.7 mt
2-1/4"	135 lb	154,000 lb	131,000 lb	56 mm	201 kg	69,800 kg	59.3 mt	65.9 mt	105 mt
2-1/2"	152 lb	175,000 lb	149,000 lb	60 mm	226 kg	79,600 kg	67.6 mt	75.1 mt	120 mt
2-5/8"	169 lb	194,000 lb	165,000 lb	64 mm	251 kg	88,100 kg	74.9 mt	83.2 mt	133 mt
2-3/4"	192 lb	232,000 lb	197,000 lb	68 mm	286 kg	105,000 kg	89.5 mt	99.4 mt	159 mt
3"	220 lb	257,000 lb	219,000 lb	72 mm	327 kg	117,000 kg	99.2 mt	110 mt	176 mt
3-1/4"	271 lb	307,000 lb	261,000 lb	80 mm	403 kg	139,000 kg	118 mt	132 mt	211 mt
3-5/8"	321 lb	375,000 lb	319,000 lb	88 mm	478 kg	170,000 kg	145 mt	161 mt	257 mt
3-3/4"	355 lb	416,000 lb	354,000 lb	92 mm	528 kg	189,000 kg	160 mt	178 mt	285 mt
4"	389 lb	444,000 lb	377,000 lb	96 mm	579 kg	201,000 kg	171 mt	190 mt	304 mt

* Spliced strength ** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.

*** Grommet ISO equals 1.6x single-leg rope strengths.

MOORING STOPPERS

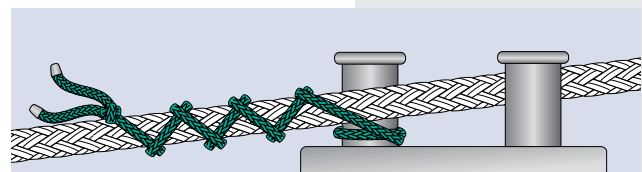
SECONDARY MOORING LINE STOPPERS

Mooring line stoppers are only for use on synthetic fiber secondary mooring lines, or mooring lines not on winches. *Tenex-TEC* should not be used on *AmSteel®-Blue* primary mooring lines. *AmSteel®-Blue*, like all 100% Dyneema® fiber mooring lines, has a very slippery, low coefficient-of-friction surface, which may prevent stoppers such as *Tenex* polyester from correctly gripping the line. *Tech-12* stoppers should be used on *AmSteel®-Blue* primary mooring lines.

Samson recommends that mooring stoppers be regularly inspected and retired after five years of service regardless of their physical appearance. Mooring stoppers with cut strands or other physical deformations that may severely affect residual break strength should be retired immediately.

Even though Samson stoppers come with certificates of compliance, like all synthetic ropes, strength can deteriorate. To ensure safe use of stoppers for mooring or installation of mooring lines on winch drums, care and attention to all safe rope handling guidelines must be employed.

Samson recommends that mooring stoppers be regularly inspected and retired after five years of service regardless of their physical appearance.



Standard "tie-up" method of 1-1/4" diameter Tenex on braided mooring line.

TENEX-TEC™ PRODUCT CODE: 825

The most effective mooring line stopper for Class I secondary mooring lines.

FIBER: Polyester
SPECIFIC GRAVITY: 1.38
SPLICE/CLASS: 12-Strand Class I

ELASTIC ELONGATION:
At percent of break strength
10%1.40%
20%2.30%
30%3.00%

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	APPROPRIATE FOR CLASS VESSEL	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SAMSON MBS* METRIC TONS
1-1/4"	3-3/4"	All Vessels	55.0 lb	55,800 lb	25.3 mt

*Spliced strength

TECH-12™ PRODUCT CODE: 890

The most effective mooring line stopper for Class II secondary mooring lines.

FIBER: Technora®
SPECIFIC GRAVITY: 1.39
SPLICE/CLASS: 12-Strand Class II

ELASTIC ELONGATION:
At percent of break strength
10%0.63%
20%0.96%
30%1.20%

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	APPROPRIATE FOR CLASS VESSEL	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SAMSON MBS* METRIC TONS
3/4"	2-1/4"	All Vessels	19.3 lb	58,500 lb	26.5 mt

*Spliced strength

ETS: EMERGENCY TOW SYSTEM™

All the equipment for quick deployment in one easy-to-store container.

Samson's *Emergency Towing System (ETS)* offers a complete package in compliance with resolution MSC.35(63) of the 1994 Solas Convention. Proven *AmSteel®-Blue* towlines and high visibility messenger lines provide the strength and durability to do the job while remaining light and easy to handle. In one easy to store container, this ETS has a total assembly weight of 492 lb (224 kg) or 1,060 lb (480 kg) with all the necessary equipment for quick deployment. *AmSteel®-Blue* towlines are class certified to ABS and DNV Standards.

KIT INCLUDES:

- > *AmSteel®-Blue* main towline
- > 400 feet of 5/8" diameter *AmSteel®-Blue* messenger line
- > Durable, insulated polyurethane tote
- > Lighted retrievable buoy



PRODUCT CODE: 896

MODEL A (20,000 – 50,000 DWT)

ASSEMBLY NUMBER	PRODUCT CODE	MESSANGER LINE DIA. INCHES/MM	MESSANGER LINE MBS* POUNDS/MT	TOWLINE LENGTH FEET/M	TOWLINE DIAMETER INCHES/MM	TOWLINE MBS* POUNDS/KG	ISO 2307 STRENGTH** METRIC TONS	ASSEMBLY WEIGHT POUNDS/KG	ASSEMBLY DIMENSIONS L x W x H (INCHES/MM)
ETS-484	896 144 806 58900	5/8"	47,500 lb	250'	2-1/4"	483,000 lb	244 mt	492 lb	48.25" x 40.5" x 30.5"
ETS-484	896 144 806 58900	16 mm	24.0 mt	76 m	56 mm	244,000 kg	244 mt	223 kg	1,125 x 1,028 x 775 mm

MODEL B (over 50,000 DWT)

ASSEMBLY NUMBER	PRODUCT CODE	MESSANGER LINE DIA. INCHES/MM	MESSANGER LINE MBS* POUNDS/MT	TOWLINE LENGTH FEET/M	TOWLINE DIAMETER INCHES/MM	TOWLINE MBS* POUNDS/KG	ISO 2307 STRENGTH** METRIC TONS	ASSEMBLY WEIGHT POUNDS/KG	ASSEMBLY DIMENSIONS L x W x H (INCHES/MM)
ETS-906	896 208 807 08900	5/8"	47,500 lb	300'	3-1/4"	906,000 lb	457 mt	1,060 lb	59.5" x 46" x 35"
ETS-906	896 208 807 08900	16 mm	24.0 mt	92 m	80 mm	457,000 kg	457 mt	481 kg	1,512 x 1,168 x 890 mm

* Spliced strength

** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths

VULCAN™

Emergency tow-off pendants (ETOPs), commonly referred to as "fire wires," provide a means of towing the ship away from the dock in the event of a fire. Samson developed *Vulcan*, a synthetic alternative to traditional wire ropes (fire wires). *Vulcan* is significantly lighter and eliminates "fish hooks," which are broken wires that protrude from the wire rope and result in hand injuries. Maintenance costs are also reduced when using synthetic ropes in comparison with wire ropes.

The patented synthetic ETOP *Vulcan* is made of Technora® fiber in conjunction with a proprietary fire-resistant coating that meets the OCIMF-required breaking strength after exposure to flames and a high-temperature environment.



technora®
The Power of Aramid

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	SAMSON MBS* POUNDS	SIZE DIAMETER MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	SAMSON MBS* METRIC TONS	ISO 2307 STRENGTH** METRIC TONS
1"	3"	30.0 lb	66,600 lb	24 mm	44.6 kg	30.2 mt	33.6 mt
1-1/4"	3-3/4"	61.6 lb	122,000 lb	30 mm	91.7 kg	55.5 mt	61.7 mt
1-5/16"	4"	69.0 lb	135,000 lb	32 mm	103 kg	61.2 mt	68.0 mt
1-11/16"	5-1/4"	107 lb	190,000 lb	42 mm	159 kg	86.1 mt	95.7 mt
1-7/8"	5-5/8"	125 lb	222,000 lb	46 mm	186 kg	101 mt	112 mt
2-1/8"	6-1/2"	149 lb	275,000 lb	52 mm	222 kg	125 mt	139 mt
2-1/4"	7"	168 lb	296,000 lb	56 mm	250 kg	134 mt	149 mt
2-1/2"	7-1/2"	192 lb	338,000 lb	60 mm	286 kg	153 mt	170 mt

* Spliced strength ** This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.

SamsonRope.com

TUG MANEUVERING PENDANTS

To ensure maximum service life of tug assist and maneuvering lines, Samson recommends the use of a single-leg or strop pendant

The pendants will take the abuse of rough undressed chocks and bitts aboard the assisted vessel and allow the main assist lines to be maintained.



SINGLE-LEG The industry standard overall length for a single-leg pendant is 80–120 feet (24.4–36.6 meters) with a 1–3 foot soft eye, for mating to the mainline, and a 5–7 foot soft eye for the shipboard connection. Hardware and chafe protection can be added upon request.

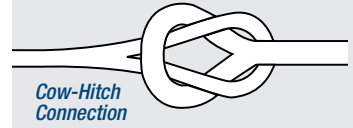


STROP The industry standard overall length for a strop pendant is 80–120 feet (24.4–36.6 meters). Strop strength is 1.6x the single-leg rope strengths. Strop configurations can be adjusted to share the wear over the length of the pendant. Hardware, chafe protection, and additional whipping can be added upon request.

Pendants can be connected to the mainline by way of cow-hitch or eye-to-eye connection (also known as “chain link” or “spectacle” connection).

The cow-hitch connection provides a suitable method of joining two ropes of similar diameter without the use of thimbles or other hardware. It yields approximately 85% strength efficiency.

The eye-to-eye connection provides a suitable method of joining two ropes of similar diameter without the use of thimbles or other hardware. It yields 90–100% strength efficiency.



Cow-Hitch Connection



AmSteel®Blue cow-hitched to AmSteel®Blue pendant.



AmSteel®Blue mainline with eye-to-eye connection to AmSteel®Blue pendant.

TUG PENDANT SPECIFICATIONS

SINGLE-LEG

Size Diameter INCHES	Size Circ. INCHES	Samson Min. Strength* POUNDS	Size Diameter MILLIMETERS	Samson Min. Strength* METRIC TONS	ISO 2307 Strength** METRIC TONS
1-1/2"	4-1/2"	205,000 lb	36 mm	93.1 mt	103 mt
1-5/8"	5"	255,000 lb	40 mm	116 mt	128 mt
1-3/4"	5-1/2"	302,000 lb	44 mm	137 mt	152 mt
2"	6"	343,000 lb	48 mm	156 mt	173 mt
2-1/8"	6-1/2"	411,000 lb	52 mm	187 mt	207 mt
2-1/4"	7"	483,000 lb	56 mm	219 mt	244 mt
2-1/2"	7-1/2"	529,000 lb	60 mm	240 mt	267 mt
2-5/8"	8"	596,000 lb	64 mm	270 mt	300 mt
2-3/4"	8-1/2"	662,000 lb	68 mm	300 mt	333 mt
3"	9"	749,000 lb	72 mm	340 mt	377 mt
3-1/4"	10"	906,000 lb	80 mm	411 mt	457 mt

*Spliced strength

AmSteel®Blue PRODUCT CODE: 872
Saturn-12™ PRODUCT CODE: 882



Single-leg pendant-to-mainline connection.

STROP

Size Diameter INCHES	Size Circ. INCHES	Samson Min. Strength* POUNDS	Size Diameter MILLIMETERS	Samson Min. Strength* METRIC TONS	ISO 2307 Strength** METRIC TONS
1-1/4"	3-3/4"	238,000 lb	30 mm	108 mt	120 mt
1-5/16"	4"	266,000 lb	32 mm	120 mt	134 mt
1-1/2"	4-1/2"	328,000 lb	36 mm	149 mt	165 mt
1-5/8"	5"	408,000 lb	40 mm	186 mt	205 mt
1-3/4"	5-1/2"	483,000 lb	44 mm	219 mt	243 mt
2"	6"	549,000 lb	48 mm	250 mt	277 mt
2-1/8"	6-1/2"	658,000 lb	52 mm	299 mt	331 mt
2-1/4"	7"	773,000 lb	56 mm	350 mt	390 mt
2-1/2"	7-1/2"	846,000 lb	60 mm	384 mt	427 mt
2-5/8"	8"	954,000 lb	64 mm	432 mt	480 mt

*Spliced strength

**This standard replaces BS EN 919 and ISO 2307:1995 and is for unspliced strengths.

AmSteel®Blue PRODUCT CODE: 872
Saturn-12™ PRODUCT CODE: 882

AmSteel®Blue or Saturn-12

AmSteel®Blue, the worldwide gold standard in the tug industry, is made with already-abrasion-resistant Dyneema® fiber and coated with one of Samson's abrasion-resistant Samthane coatings.

Saturn-12 represents the next generation in Samson's 12-strand working lines made with Dyneema® fiber and is treated with an enhanced Samthane coating specifically designed to reduce internal abrasion. Saturn-12 has proven to have as much as 15–20% increase in residual strength when compared with other HMPE lines and their conventional coatings.



SAMSON RESOURCE GUIDE



SamsonRope.com

We've put all our information here for easy downloading for anyone with access to the web. We think it is the best resource for information on high-performance synthetic ropes available anywhere.

- > Rope specifications
- > Product breakdowns by application and industry
- > Technical bulletins and papers
- > Case studies
- > Splicing instructions

Samson app

For the iPhone and iPad this handy app features:

- > Inspection and retirement criteria
- > Internal and external abrasion inspection information
- > Splice Instructions

Download it at SamsonRope.com



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Dyneema® is a registered trademark of Royal DSM N.V.

Dyneema® is DSM's high-performance polyethylene product.

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