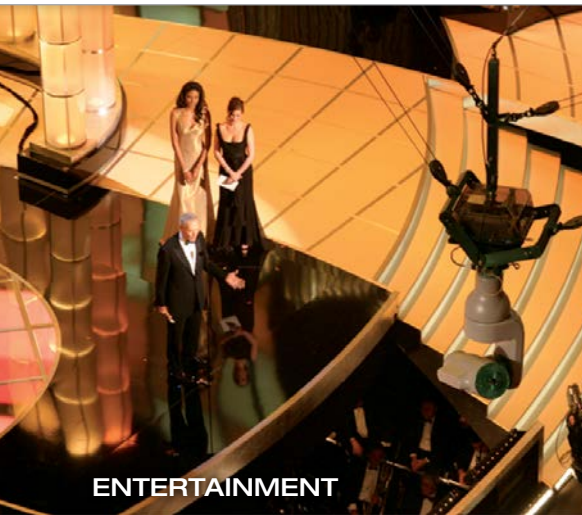


INDUSTRIAL PRODUCT GUIDE



INDUSTRIAL PRODUCT GUIDE



ENTERTAINMENT



UTILITY WINCH



MINING



RECOVERY SLING & SOFT SHACKLE



STRINGING



SAFETY



RESCUE



VEHICLE WINCH

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FOR ASSISTANCE

Contact your Samson technical representative















> Email: CustServ@SamsonRope.com

> Phone: +1.360.384.4669
(7:30am – 4:30pm PST)

> Web: SamsonRope.com

Resources & Literature section has case studies,
technical bulletins, videos, and more

INDUSTRIAL PRODUCT GUIDE

																
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		<div>3-S = 3-Strand 12-S = 12-Strand DB = Double Braid CD = Core-Dependent Double Braid FAB = Fabricated Product JKT = Jacketed MC = Multi-Core</div> <div>PRODUCT NAME FIBER (Core/Cover)</div> <div>AmSteel® HMPE</div> <div>AmSteel® II HMPE – MFP Blend / Polyester</div> <div>AmSteel® II Plus HMPE / Polyester</div> <div>AmSteel®Blue HMPE</div> <div>Dura-Plex™ Polypropylene – Polyester Blend</div> <div>Link-It Plus™ HMPE</div> <div>Mercury™ Nylon / Polyester</div> <div>ML-12™ HMPE</div> <div>Nystron™ Nylon / Polyester</div> <div>Panther™ Recovery Sling HMPE / HMPE</div> <div>Pro-Master™ Polyolefin-Polyester Blend</div> <div>Pro-Set-3™ Nylon</div> <div>PTS-3 Nylon™ Lifeline Nylon</div> <div>PTS-12 Nylon™ Nylon</div>														
CONSTRUCTION		12-S	DB	DB	12-S	12-S	FAB	JKT MC	12-S	DB	FAB	3-S	3-S	3-S	12-S	
APPLICATIONS INCLUDE	Entertainment	●			●							●				
	Mining				●		●				●					
	Off-Road Vehicle Winch	●			●											
	Safety/Rescue							●						●		
	Hand Lines					●						●	●			
	Pulling/Stringing Lines	●	●	●	●				●							
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8	12	9	20	20	16	18	17	10	13	13	15	21	15	10	23	22
Quantum-X™ HMPE® – Polyester Blend	Quik-Splice™ Polyolefin	Saturn-12™ HMPE	SSR-100-3™ Polyolefin – Polyester Blend	SSR-1200-3™ Polyolefin – Polyester Blend	Stable Braid™ Polyester / Polyester	Static Rope™ Nylon / Polyester	Super Strong™ Nylon / Nylon	Tech-12™ Aramid	Tenex™ Polyester	Tenex-TEC™ Polyester	Turbo-RC™ HMPE / HMPE	Ultra Blue-3™ Polyolefin	Ultra-Tech™ Aramid / Polyester	Validator-12™ Liquid Crystal Polymer (LCP)	Vertico™ Lifeline Polyolefin – Polyester Blend	Whoopie Sling™ Polyester
12-S	12-S	12-S	3-S	3-S	DB	JKT MC	DB	12-S	12-S	12-S	CD	3-S	CD	12-S	3-S	12-S
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ROPE CLASSIFICATION

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 HMPE, aramid, and LCP (liquid crystal polymer).

● = Class II (high-performance fiber content)

● = Class I (traditional fiber content)

AMSTEEL®

CLASS II HIGH-PERFORMANCE

As strong as wire AmSteel® is a nonrotational, Samthane coated, 12-strand single braid that yields high strength and low stretch; equivalent to wire rope with 1/7th the weight. In addition, the product is flexible, spliceable, and resists flex-fatigue and abrasion.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	1.5 lb	7,400 lb	6,500 lb	6 mm	18 mm	2.2 kg	3,400 kg	2,900 kg
5/16"	1"	2.5 lb	11,900 lb	10,400 lb	8 mm	24 mm	3.7 kg	5,400 kg	4,700 kg
3/8"	1-1/8"	3.5 lb	16,200 lb	14,200 lb	9 mm	27 mm	5.2 kg	7,300 kg	6,400 kg
7/16"	1-1/4"	4.2 lb	19,300 lb	16,900 lb	11 mm	33 mm	6.3 kg	8,800 kg	7,700 kg
1/2"	1-1/2"	6.0 lb	26,500 lb	23,200 lb	12 mm	36 mm	8.9 kg	12,000 kg	10,500 kg
9/16"	1-3/4"	7.5 lb	33,500 lb	29,300 lb	14 mm	42 mm	11.1 kg	15,200 kg	13,300 kg
5/8"	2"	10.0 lb	42,300 lb	37,000 lb	16 mm	48 mm	14.9 kg	19,200 kg	16,800 kg
3/4"	2-1/4"	13.0 lb	53,800 lb	47,100 lb	18 mm	54 mm	19.3 kg	24,400 kg	21,300 kg
13/16"	2-1/2"	16.6 lb	67,000 lb	58,600 lb	20 mm	60 mm	24.7 kg	30,400 kg	26,600 kg
7/8"	2-3/4"	18.9 lb	75,300 lb	65,900 lb	22 mm	66 mm	28.1 kg	34,200 kg	29,900 kg
1"	3"	22.2 lb	87,200 lb	76,300 lb	24 mm	72 mm	33.0 kg	39,600 kg	34,600 kg
1-1/16"	3-1/4"	26.3 lb	102,000 lb	89,200 lb	26 mm	78 mm	39.1 kg	46,300 kg	40,500 kg
1-1/8"	3-1/2"	30.6 lb	117,000 lb	102,000 lb	28 mm	84 mm	45.5 kg	53,100 kg	46,400 kg
1-1/4"	3-3/4"	34.9 lb	132,000 lb	115,000 lb	30 mm	90 mm	51.9 kg	59,900 kg	52,400 kg
1-5/16"	4"	39.6 lb	147,000 lb	129,000 lb	32 mm	96 mm	58.9 kg	66,700 kg	58,300 kg
1-1/2"	4-1/2"	48.8 lb	178,000 lb	156,000 lb	36 mm	108 mm	72.6 kg	80,700 kg	70,600 kg

*Spliced strength.



PRODUCT CODE: 870

FIBER: HMPE

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

ELASTIC ELONGATION:

At percent of break strength
10% 0.46%
20% 0.70%
30% 0.96%

FEATURES AND BENEFITS:

- > Made with HMPE fiber
- > Samthane coated
- > Highly flex-fatigue resistant
- > Highly abrasion resistant

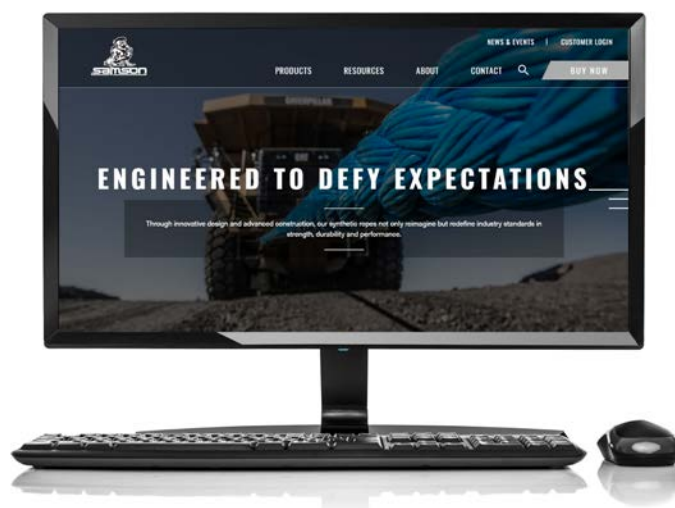
APPLICATIONS:

- > Pulling/stringing lines
- > Winch lines
- > Lifting slings
- > Event/special effects rigging
- > Camera control lines

SamsonRope.com

Easy access to Samson's rope knowledge and resource library. We think it is the best resource for information on synthetic ropes available anywhere.

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



PRODUCT CODE: 872

FIBER: HMPE

COLOR: Blue, 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:

- > Made with 100% HMPE
- > Samthane coated
- > Maximum strength-to-weight ratio
- > Highly flex-fatigue resistant
- > Highly abrasion resistant
- > Nonrotational
- > 1/7th the weight of wire
- > Wire rope replacement

APPLICATIONS:

- > Pulling/stringing lines
- > Winch lines
- > Slings
- > Camera control lines
- > Event/special effects rigging

Stronger and lighter than wire AmSteel®Blue is a torque-free, 12-strand single braid made with 100% Dyneema® fiber that yields the maximum in strength-to-weight ratio and, size-for-size, is the same strength as steel—yet it floats. AmSteel®Blue is an excellent wire rope replacement with extremely low stretch, and superior flex fatigue and wear resistance.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
7/64"†	5/16"	0.30 lb	1,600 lb	1,400 lb	2.5†	7.5 mm	0.45 kg	730 kg	650 kg
1/8"	3/8"	0.5 lb	2,500 lb	2,300 lb	3	9 mm	0.74 kg	1,100 kg	1,000 kg
5/32"	15/32"	0.75 lb	4,000 lb	3,600 lb	4	12 mm	1.1 kg	1,800 kg	1,600 kg
3/16"	9/16"	1.0 lb	5,400 lb	4,900 lb	5	15 mm	1.5 kg	2,400 kg	2,200 kg
1/4"	3/4"	1.6 lb	8,600 lb	7,700 lb	6	18 mm	2.4 kg	3,900 kg	3,500 kg
5/16"	1"	2.7 lb	13,700 lb	12,300 lb	8	24 mm	4.0 kg	6,200 kg	5,600 kg
3/8"	1-1/8"	3.4 lb	19,600 lb	17,600 lb	9	27 mm	5.1 kg	8,900 kg	8,000 kg
7/16"	1 1/4"	4.5 lb	23,900 lb	21,500 lb	11	33 mm	6.7 kg	10,800 kg	9,800 kg
1/2"	1-1/2"	5.9 lb	34,000 lb	30,600 lb	12	36 mm	8.8 kg	15,400 kg	13,900 kg
9/16"	1 3/4"	7.9 lb	40,500 lb	36,500 lb	14	42 mm	11.8 kg	18,400 kg	16,500 kg
5/8"	2"	10.2 lb	52,800 lb	47,500 lb	16	48 mm	15.2 kg	24,000 kg	21,600 kg
3/4"	2-1/4"	13.3 lb	64,400 lb	58,000 lb	18	54 mm	19.8 kg	29,200 kg	26,300 kg
13/16"	2-1/2"	17.0 lb	82,000 lb	73,800 lb	20	60 mm	25.3 kg	37,200 kg	33,500 kg
7/8"	2 3/4"	19.6 lb	90,800 lb	81,700 lb	22	66 mm	29.2 kg	41,200 kg	37,100 kg
1"	3"	21.8 lb	109,000 lb	98,100 lb	24	72 mm	32.4 kg	49,400 kg	44,500 kg
1-1/32"	3-1/8"	26.0 lb	125,000 lb	113,000 lb	25	75 mm	38.7 kg	56,700 kg	51,000 kg
1-1/16"	3-1/4"	27.5 lb	134,000 lb	121,000 lb	26	78 mm	40.9 kg	60,800 kg	54,700 kg
1-1/8"	3-1/2"	31.9 lb	148,000 lb	133,000 lb	28	84 mm	47.5 kg	67,100 kg	60,400 kg
1-1/4"	3-3/4"	36.2 lb	165,000 lb	149,000 lb	30	90 mm	53.9 kg	74,800 kg	67,400 kg
1-5/16"	4"	41.8 lb	185,000 lb	167,000 lb	32	96 mm	62.2 kg	84,000 kg	75,600 kg
1-3/8"	4-1/8"	45.0 lb	205,000 lb	185,000 lb	34	100 mm	67.0 kg	93,000 kg	83,700 kg
1-1/2"	4-1/2"	51.7 lb	228,000 lb	205,000 lb	36	108 mm	76.9 kg	103,000 kg	93,100 kg
1-9/16"	4 3/4"	57.6 lb	254,000 lb	229,000 lb	38	114 mm	85.7 kg	115,000 kg	104,000 kg
1-5/8"	5"	65.2 lb	283,000 lb	255,000 lb	40	120 mm	97.0 kg	128,000 kg	116,000 kg
1-11/16"	5-1/4"	71.0 lb	307,000 lb	276,000 lb	42	126 mm	106 kg	139,000 kg	125,000 kg
1-3/4"	5-1/2"	78.4 lb	335,000 lb	302,000 lb	44	132 mm	117 kg	152,000 kg	137,000 kg
2"	6"	86.4 lb	392,000 lb	353,000 lb	48	144 mm	129 kg	178,000 kg	160,000 kg
2-1/16"	6-1/4"	95.0 lb	418,000 lb	376,000 lb	50	150 mm	141 kg	190,000 kg	171,000 kg
2-1/8"	6-1/2"	109 lb	457,000 lb	411,000 lb	52	156 mm	162 kg	207,000 kg	187,000 kg
2-1/4"	7"	116 lb	537,000 lb	483,000 lb	56	168 mm	173 kg	244,000 kg	219,000 kg
2-1/2"	7-1/2"	148 lb	588,000 lb	529,000 lb	60	180 mm	220 kg	267,000 kg	240,000 kg
2-5/8"	8"	167 lb	662,000 lb	596,000 lb	64	192 mm	248 kg	300,000 kg	270,000 kg
2-3/4"	8-1/2"	187 lb	735,000 lb	662,000 lb	68	204 mm	278 kg	333,000 kg	300,000 kg
3"	9"	206 lb	832,000 lb	749,000 lb	72	216 mm	307 kg	377,000 kg	340,000 kg

*Spliced strength. †Size 7/64" (2.5 mm) changes from 12-strand to 8-strand construction.



ML-12™

CLASS II HIGH-PERFORMANCE

Light weight and high strength ML-12 made with Dyeema® fiber is, size-for-size, stronger than similar traditional polyester lines. When replacing traditional polyester lines with ML-12, it is possible to downsize the diameter of the line on existing equipment, pull the same load, and store much longer lengths. In addition, ML-12 has reduced elongation over traditional polyester lines.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	1.5 lb	5,000 lb	4,500 lb	6 mm	18 mm	2.2 kg	2,300 kg	2,000 kg
5/16"	1"	2.5 lb	8,000 lb	7,200 lb	8 mm	24 mm	3.7 kg	3,600 kg	3,300 kg
3/8"	1-1/8"	3.4 lb	11,000 lb	9,900 lb	9 mm	27 mm	5.1 kg	5,000 kg	4,500 kg
7/16"	1-1/4"	4.3 lb	14,000 lb	12,600 lb	11 mm	33 mm	6.4 kg	6,400 kg	5,700 kg
1/2"	1-1/2"	5.5 lb	18,000 lb	16,200 lb	12 mm	36 mm	8.2 kg	8,200 kg	7,300 kg
9/16"	1-3/4"	7.4 lb	24,000 lb	21,600 lb	14 mm	42 mm	11.0 kg	10,900 kg	9,800 kg
5/8"	2"	8.9 lb	28,000 lb	25,200 lb	16 mm	48 mm	13.2 kg	12,700 kg	11,400 kg
3/4"	2-1/4"	13.0 lb	40,000 lb	36,000 lb	18 mm	54 mm	19.3 kg	18,100 kg	16,300 kg
7/8"	2-3/4"	17.3 lb	52,000 lb	46,800 lb	22 mm	66 mm	25.7 kg	23,600 kg	21,200 kg
1"	3"	23.5 lb	70,000 lb	63,000 lb	24 mm	72 mm	35.0 kg	31,800 kg	28,600 kg
1-1/8"	3-1/2"	29.7 lb	87,000 lb	78,300 lb	28 mm	84 mm	44.2 kg	39,500 kg	35,500 kg
1-1/4"	3-3/4"	37.1 lb	107,000 lb	96,300 lb	30 mm	90 mm	55.2 kg	48,500 kg	43,700 kg

*Spliced strength.



PRODUCT CODE: 815

FIBER: HMPE

COLOR: Black, blue, gray, green, orange, red, or yellow—all with a black longitudinal line

SPECIFIC GRAVITY: 0.98 (floats)

SPLICE/CLASS:

12-Strand Class II

ELASTIC ELONGATION:

At percent of break strength
 10% 0.50%
 20% 1.00%
 30% 1.40%

FEATURES AND BENEFITS:

- > Reduced elongation
- > High strength
- > Lightweight
- > Size-for-size, pulls heavier loads than traditional polyester line

APPLICATIONS:

- > Pulling/stringing lines
- > Winch lines

QUANTUM-X™

Engineered for X-tra performance Quantum-X is a 12-strand rope that has been engineered for better snag resistance, higher coefficient of friction, enhanced cyclical bend over sheave (CBOS), and creep performance than its predecessor Quantum-12. It is lightweight, high-strength, flexible, easy to handle and splice, and it floats. Quantum-12 utilizes Dyneema® SK78 fiber and also utilizes Samson's patented DPX™ fiber technology, resulting in 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.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
3/4"	2-1/4"	12.6 lb	48,500 lb	43,700 lb	18 mm	54 mm	18.7 kg	22,000 kg	19,800 kg
7/8"	2-3/4"	16.8 lb	64,700 lb	58,200 lb	22 mm	66 mm	25.0 kg	29,300 kg	26,400 kg
1"	3"	21.6 lb	84,600 lb	76,100 lb	24 mm	72 mm	32.1 kg	38,400 kg	34,500 kg
1-1/8"	3-1/2"	26.4 lb	104,000 lb	93,600 lb	28 mm	84 mm	39.3 kg	47,200 kg	42,500 kg
1-1/4"	3-3/4"	32.7 lb	132,000 lb	119,000 lb	30 mm	90 mm	48.7 kg	59,900 kg	53,900 kg
1-5/16"	4"	34.2 lb	141,000 lb	127,000 lb	32 mm	96 mm	50.9 kg	64,000 kg	57,600 kg
1-3/8"	4-1/8"	38.9 lb	160,000 lb	144,000 lb	34 mm	100 mm	57.9 kg	72,600 kg	65,300 kg
1-1/2"	4-1/2"	45.5 lb	187,000 lb	168,000 lb	36 mm	108 mm	67.7 kg	84,800 kg	76,300 kg
1-5/8"	5"	52.7 lb	218,000 lb	196,000 lb	40 mm	120 mm	78.4 kg	98,900 kg	89,000 kg
1-3/4"	5-1/2"	61.6 lb	258,000 lb	232,000 lb	44 mm	132 mm	91.7 kg	117,000 kg	105,000 kg

*Spliced strength.

PRODUCT CODE: 847

FIBER:

HMPE-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
- > Snag resistant
- > Easy to handle, inspect, and splice
- > Flexible
- > High strength
- > Lightweight
- > Samthane coated

APPLICATIONS:

- > Winch lines

PRODUCT CODE: 882

FIBER: HMPE

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:

- > Made with 100% HMPE
- > Samthane coated
- > Maximum strength-to-weight ratio
- > Wire rope replacement

APPLICATIONS:

- > Underground pulling/stringing lines
- > Winch lines

Made with Dyneema® SK78 *Saturn-12* has proven to be one of the longest lasting, most durable ropes available, increasing residual strength as much as 15–20% when compared with other HMPE lines and their conventional coatings. *Saturn-12*'s proprietary Samthane coating improves abrasion resistance and has been enhanced for greater UV resistance. In addition, *Saturn-12* is 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	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	1.6 lb	8,600 lb	7,700 lb	6 mm	18 mm	2.4 kg	3,900 kg	3,500 kg
5/16"	1"	2.7 lb	13,700 lb	12,300 lb	8 mm	24 mm	4.0 kg	6,200 kg	5,600 kg
3/8"	1-1/8"	3.4 lb	19,600 lb	17,600 lb	9 mm	27 mm	5.1 kg	8,900 kg	8,000 kg
7/16"	1-1/4"	4.2 lb	23,900 lb	21,500 lb	11 mm	33 mm	6.2 kg	10,800 kg	9,800 kg
1/2"	1-1/2"	5.9 lb	34,000 lb	30,600 lb	12 mm	36 mm	8.8 kg	15,400 kg	13,900 kg
9/16"	1-3/4"	7.9 lb	40,500 lb	36,500 lb	14 mm	42 mm	11.8 kg	18,400 kg	16,500 kg
5/8"	2"	10.2 lb	52,800 lb	47,500 lb	16 mm	48 mm	15.2 kg	24,000 kg	21,600 kg
3/4"	2-1/4"	13.3 lb	64,400 lb	58,000 lb	18 mm	54 mm	19.8 kg	29,200 kg	26,300 kg
13/16"	2-1/2"	17.0 lb	82,000 lb	73,800 lb	20 mm	60 mm	25.3 kg	37,200 kg	33,500 kg
7/8"	2-3/4"	19.6 lb	90,800 lb	81,700 lb	22 mm	66 mm	29.2 kg	41,200 kg	37,100 kg
1"	3"	21.8 lb	109,000 lb	98,100 lb	24 mm	72 mm	32.4 kg	49,400 kg	44,500 kg
1-1/16"	3-1/4"	27.5 lb	134,000 lb	121,000 lb	26 mm	78 mm	40.9 kg	60,800 kg	54,700 kg
1-1/8"	3-1/2"	31.9 lb	148,000 lb	133,000 lb	28 mm	84 mm	47.5 kg	67,100 kg	60,400 kg
1-1/4"	3-3/4"	36.2 lb	165,000 lb	149,000 lb	30 mm	90 mm	53.9 kg	74,800 kg	67,400 kg
1-5/16"	4"	41.8 lb	185,000 lb	167,000 lb	32 mm	96 mm	62.2 kg	84,000 kg	75,600 kg
1-3/8"	4-1/8"	45.0 lb	205,000 lb	185,000 lb	34 mm	100 mm	67.0 kg	93,000 kg	83,700 kg
1-1/2"	4-1/2"	51.7 lb	228,000 lb	205,000 lb	36 mm	108 mm	76.9 kg	103,000 kg	93,100 kg
1-5/8"	5"	65.2 lb	283,000 lb	255,000 lb	40 mm	120 mm	97.0 kg	128,000 kg	116,000 kg
1-3/4"	5-1/2"	78.4 lb	335,000 lb	302,000 lb	44 mm	132 mm	117 kg	152,000 kg	137,000 kg
2"	6"	87.0 lb	381,000 lb	343,000 lb	48 mm	144 mm	129 kg	173,000 kg	156,000 kg
2-1/16"	6-1/4"	95.0 lb	418,000 lb	376,000 lb	50 mm	150 mm	141 kg	190,000 kg	171,000 kg
2-1/8"	6-1/2"	109 lb	457,000 lb	411,000 lb	52 mm	156 mm	162 kg	207,000 kg	187,000 kg
2-1/4"	7"	116 lb	537,000 lb	483,000 lb	56 mm	168 mm	173 kg	244,000 kg	219,000 kg
2-1/2"	7-1/2"	148 lb	588,000 lb	529,000 lb	60 mm	180 mm	220 kg	267,000 kg	240,000 kg
2-5/8"	8"	167 lb	662,000 lb	596,000 lb	64 mm	192 mm	248 kg	300,000 kg	270,000 kg
2-3/4"	8-1/2"	187 lb	735,000 lb	662,000 lb	68 mm	204 mm	278 kg	333,000 kg	300,000 kg
3"	9"	206 lb	832,000 lb	749,000 lb	72 mm	216 mm	307 kg	377,000 kg	340,000 kg

*Spliced strength.

TECH-12™

Strong heat-resistant rope with low creep Tech-12 is a 12-strand construction that is heat- and flex-fatigue resistant, and works well around sheaves and winches. It is easy to splice and is Samthane coated.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/8"	3/8"	0.6 lb	2,800 lb	2,500 lb	3 mm	9 mm	0.89 kg	1,300 kg	1,100 kg
3/16"	9/16"	1.3 lb	5,600 lb	5,000 lb	5 mm	15 mm	1.9 kg	2,500 kg	2,300 kg
1/4"	3/4"	1.9 lb	8,200 lb	7,300 lb	6 mm	18 mm	2.8 kg	3,700 kg	3,300 kg
5/16"	1"	3.2 lb	13,000 lb	11,700 lb	8 mm	24 mm	4.8 kg	5,900 kg	5,300 kg
3/8"	1-1/8"	4.3 lb	18,000 lb	16,200 lb	9 mm	27 mm	6.4 kg	8,200 kg	7,300 kg
7/16"	1-1/4"	6.7 lb	28,000 lb	25,200 lb	11 mm	33 mm	10.0 kg	12,700 kg	11,400 kg
1/2"	1-1/2"	8.0 lb	33,000 lb	29,700 lb	12 mm	36 mm	11.9 kg	15,000 kg	13,500 kg
9/16"	1-3/4"	11.0 lb	38,000 lb	34,200 lb	14 mm	42 mm	16.4 kg	17,200 kg	15,500 kg
5/8"	2"	13.5 lb	43,000 lb	38,700 lb	16 mm	48 mm	20.1 kg	19,500 kg	17,600 kg
3/4"	2-1/4"	19.3 lb	65,000 lb	58,500 lb	18 mm	54 mm	28.7 kg	29,500 kg	26,500 kg
7/8"	2-3/4"	25.3 lb	84,000 lb	75,600 lb	22 mm	66 mm	37.6 kg	38,100 kg	34,300 kg
1"	3"	31.1 lb	102,000 lb	91,800 lb	24 mm	72 mm	46.3 kg	46,300 kg	41,600 kg

*Spliced strength.



PRODUCT CODE: 890

FIBER: Aramid

COLOR:

Black, blue, green, or red

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%

FEATURES AND BENEFITS:

- > Technora® fiber
- > Samthane coated
- > Flexible
- > Nonrotational
- > Excellent heat resistance
- > Extremely strong
- > Negligible creep
- > Strong as wire
- > Wire replacement

APPLICATIONS:

- > Pulling/stringing lines
- > Slings
- > Guy lines
- > Event/special effects rigging

VALIDATOR-12™

No creep under constant load Validator-12, made with Vectran® fiber, is an easy-to-splice, no-creep, 12-strand single braid that is extremely strong and lightweight.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
7/64"	5/16"	0.5 lb	2,000 lb	1,800 lb	2.5 mm	7.5 mm	0.74 kg	910 kg	820 kg
1/8"	3/8"	0.6 lb	2,700 lb	2,400 lb	3 mm	9 mm	0.89 kg	1,200 kg	1,100 kg
3/16"	9/16"	1.3 lb	5,500 lb	5,000 lb	5 mm	15 mm	1.9 kg	2,500 kg	2,200 kg
1/4"	3/4"	2.2 lb	9,400 lb	8,500 lb	6 mm	18 mm	3.3 kg	4,300 kg	3,800 kg
5/16"	1"	3.6 lb	14,000 lb	12,600 lb	8 mm	24 mm	5.4 kg	6,400 kg	5,700 kg
3/8"	1-1/8"	4.6 lb	19,500 lb	17,600 lb	9 mm	27 mm	6.8 kg	8,800 kg	8,000 kg
7/16"	1-1/4"	6.1 lb	23,500 lb	21,200 lb	11 mm	33 mm	9.1 kg	10,700 kg	9,600 kg
1/2"	1-1/2"	8.8 lb	35,000 lb	31,500 lb	12 mm	36 mm	13.1 kg	15,900 kg	14,300 kg
9/16"	1-3/4"	10.8 lb	43,000 lb	38,700 lb	14 mm	42 mm	16.1 kg	19,500 kg	17,600 kg
5/8"	2"	14.0 lb	55,000 lb	49,500 lb	16 mm	48 mm	20.8 kg	24,900 kg	22,500 kg

*Spliced strength.



PRODUCT CODE: 446

FIBER: Liquid Crystal
Polymer (LCP)

COLOR:

Black, blue, green, or red

SPECIFIC GRAVITY: 1.39

SPLICE/CLASS:
12-Strand Class II

ELASTIC ELONGATION:

At percent of break strength

10% 0.49%

20% 0.78%

30% 0.98%

FEATURES AND BENEFITS:

- > Samthane coated
- > Flexible
- > Nonrotational
- > High strength
- > Low stretch
- > Abrasion resistant
- > Extremely durable
- > Heat resistant
- > Wire replacement

APPLICATIONS:

- > Pulling/stringing lines
- > Camera control lines
- > Special effects

CLASS I

PRODUCT CODE:

360 UNCOATED / 860 COATED

FIBER:

Polypropylene-Polyester Blend

COLOR: White with blue ID,
Coated blue, clear, green,
orange, red, or yellow —
all with blue ID

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS:

12-Strand Class I

ELASTIC ELONGATION:

At percent of break strength

10%	1.60%
20%	2.70%
30%	3.80%

FEATURES AND BENEFITS:

- > Samson's patented DPX™ fiber technology
- > Flexible
- > Coating enhances abrasion resistance and provides color options
- > Excellent strength-to-weight ratio
- > Hockle resistant

APPLICATIONS:

- > Hand line

Excellent strength-to-weight ratio

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

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	1.5 lb	1,800 lb	1,600 lb	6 mm	18 mm	2.2 kg	820 kg	730 kg
5/16"	1"	2.2 lb	2,600 lb	2,300 lb	8 mm	24 mm	3.3 kg	1,200 kg	1,100 kg
3/8"	1-1/8"	3.4 lb	3,900 lb	3,500 lb	9 mm	27 mm	5.1 kg	1,800 kg	1,600 kg
7/16"	1-1/4"	4.6 lb	5,000 lb	4,500 lb	11 mm	33 mm	6.8 kg	2,300 kg	2,000 kg
1/2"	1-1/2"	5.8 lb	6,700 lb	6,000 lb	12 mm	36 mm	8.6 kg	3,000 kg	2,700 kg
9/16"	1-3/4"	8.3 lb	9,000 lb	8,100 lb	14 mm	42 mm	12.4 kg	4,100 kg	3,700 kg
5/8"	2"	11.0 lb	11,600 lb	10,400 lb	16 mm	48 mm	16.4 kg	5,300 kg	4,700 kg
3/4"	2-1/4"	15.0 lb	14,500 lb	13,100 lb	18 mm	54 mm	22.3 kg	6,600 kg	5,900 kg
7/8"	2-3/4"	21.5 lb	21,200 lb	19,100 lb	22 mm	66 mm	32.0 kg	9,600 kg	8,700 kg
1"	3"	24.2 lb	25,000 lb	22,500 lb	24 mm	72 mm	36.0 kg	11,300 kg	10,200 kg

*Spliced strength. **Only available in uncoated.



PTS-12 NYLON™

PRODUCT CODE: 820

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

ELASTIC ELONGATION:

At percent of break strength

10%	4.70%
20%	6.90%
30%	7.70%

FEATURES AND BENEFITS:

- > Samthane coated
- > Firm and round
- > Nonrotational
- > Snag resistant
- > Heat stabilized
- > Flexible
- > High strength
- > Superior wear
- > Excellent shock mitigation

APPLICATIONS:

- > Specialty slings

The best nylon rope in the industry

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, excellent energy absorption, improved splicing, and a long wear life.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
3/16"	9/16"	1.2 lb	1,800 lb	1,600 lb	5 mm	15 mm	1.8 kg	820 kg	730 kg
1/4"	3/4"	2.0 lb	3,000 lb	2,700 lb	6 mm	18 mm	3.0 kg	1,400 kg	1,200 kg
5/16"	1"	3.0 lb	4,500 lb	4,100 lb	8 mm	24 mm	4.5 kg	2,000 kg	1,800 kg
3/8"	1-1/8"	4.0 lb	5,500 lb	5,000 lb	9 mm	27 mm	6.0 kg	2,500 kg	2,200 kg
7/16"	1-1/4"	5.6 lb	7,000 lb	6,300 lb	11 mm	33 mm	8.3 kg	3,200 kg	2,900 kg
1/2"	1-1/2"	7.4 lb	10,800 lb	9,700 lb	12 mm	36 mm	11.0 kg	4,900 kg	4,400 kg
9/16"	1-3/4"	10.4 lb	14,000 lb	12,600 lb	14 mm	42 mm	15.5 kg	6,400 kg	5,700 kg
5/8"	2"	12.1 lb	16,000 lb	14,400 lb	16 mm	48 mm	18.0 kg	7,300 kg	6,500 kg
3/4"	2-1/4"	16.1 lb	21,000 lb	18,900 lb	18 mm	54 mm	24.0 kg	9,500 kg	8,600 kg
1-1/8"	3-1/2"	30.0 lb	47,000 lb	42,300 lb	28 mm	84 mm	44.6 kg	21,300 kg	19,200 kg

*Spliced strength.



QUICK-SPLICE™

Fast and easy splicing in the field *Quick-Splice* is a 12-strand single braid construction made from high-strength Ultra Blue fiber that is fast splicing. It is 30-35% higher in strength than the equivalent polypropylene construction, giving *Quick-Splice* up to three times more wear life than polypropylene.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"†	3/4"	1.1 lb	1,400 lb	1,300 lb	6† mm	18 mm	1.6 kg	640 kg	570 kg
5/16"†	1"	1.7 lb	2,500 lb	2,300 lb	8† mm	24 mm	2.5 kg	1,100 kg	1,000 kg
3/8"†	1-1/8"	2.7 lb	3,500 lb	3,200 lb	9† mm	27 mm	4.0 kg	1,600 kg	1,400 kg
7/16"†	1-1/4"	3.5 lb	4,600 lb	4,100 lb	11† mm	33 mm	5.2 kg	2,100 kg	1,900 kg
1/2"	1-1/2"	4.9 lb	6,700 lb	6,000 lb	12 mm	36 mm	7.3 kg	3,000 kg	2,700 kg
9/16"	1-3/4"	6.0 lb	7,500 lb	6,800 lb	14 mm	42 mm	8.9 kg	3,400 kg	3,100 kg
5/8"	2"	8.0 lb	10,900 lb	9,800 lb	16 mm	48 mm	11.9 kg	4,900 kg	4,400 kg
3/4"	2-1/4"	9.9 lb	13,000 lb	11,700 lb	18 mm	54 mm	14.7 kg	5,900 kg	5,300 kg
7/8"	2-3/4"	15.2 lb	16,000 lb	14,400 lb	22 mm	66 mm	22.6 kg	7,300 kg	6,500 kg
1"	3"	21.0 lb	23,100 lb	20,800 lb	24 mm	72 mm	31.2 kg	10,500 kg	9,400 kg
1-1/8"	3-1/2"	24.5 lb	28,600 lb	25,700 lb	28 mm	84 mm	36.5 kg	13,000 kg	11,700 kg
1-1/4"	3-3/4"	29.0 lb	31,300 lb	28,200 lb	30 mm	90 mm	43.2 kg	14,200 kg	12,800 kg

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

PRODUCT CODE: 335

FIBER: Polyolefin

COLOR:

Blue with green and red ID

SPECIFIC GRAVITY:

0.94 (floats)

SPLICE/CLASS:

Product Specific Class I

ELASTIC ELONGATION:

At percent of break strength

10% 1.10%

20% 1.90%

30% 2.60%

FEATURES AND BENEFITS:

- > Samson's proprietary bi-polymer polyolefin fiber
- > 30 to 35% stronger than standard polypropylene
- > UV stabilized
- > Resists water
- > Water Resistant
- > Abrasion Resistant

APPLICATIONS:

- > Hand lines
- > Pilot lines
- > Block lines

Why Splice?

Samson recommends splicing as the preferred rope termination method. Knots can significantly decrease a rope's strength while, in most cases, splicing maintains 100% of the specified rope strength.

CLASS I

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

ELASTIC ELONGATION:

At percent of break strength

10%1.40%

20%2.30%

30%3.00%

FEATURES AND BENEFITS:

- > High-tenacity polyester fiber
- > Samthane coated
- > High strength-to-weight ratio
- > Single end per carrier
- > Available in long lengths
- > Abrasion resistant
- > Snag resistant
- > Economical

APPLICATIONS:

- > Pulling/stringing lines
- > Winch line

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

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	2.1 lb	3,400 lb	3,100 lb	6 mm	18 mm	3.1 kg	1,500 kg	1,400 kg
5/16"	1"	3.2 lb	5,100 lb	4,600 lb	8 mm	24 mm	4.8 kg	2,300 kg	2,100 kg
3/8"	1-1/8"	3.9 lb	6,300 lb	5,700 lb	9 mm	27 mm	5.8 kg	2,900 kg	2,600 kg
7/16"	1-1/4"	6.3 lb	9,300 lb	8,400 lb	11 mm	33 mm	9.4 kg	4,200 kg	3,800 kg
1/2"	1-1/2"	8.0 lb	12,500 lb	11,300 lb	12 mm	36 mm	11.9 kg	5,700 kg	5,100 kg
9/16"	1-3/4"	10.0 lb	14,400 lb	13,000 lb	14 mm	42 mm	14.9 kg	6,500 kg	5,900 kg
5/8"	2"	12.0 lb	18,500 lb	16,700 lb	16 mm	48 mm	17.9 kg	8,400 kg	7,600 kg
3/4"	2-1/4"	17.2 lb	24,400 lb	22,000 lb	18 mm	54 mm	25.6 kg	11,100 kg	10,000 kg
7/8"	2-3/4"	25.8 lb	36,200 lb	32,600 lb	22 mm	66 mm	38.4 kg	16,400 kg	14,800 kg
1"	3"	34.5 lb	51,900 lb	46,700 lb	24 mm	72 mm	51.3 kg	23,500 kg	21,200 kg
1-1/8"	3-1/2"	43.0 lb	62,600 lb	56,300 lb	28 mm	84 mm	64.0 kg	28,400 kg	25,600 kg
1-1/4"	3-3/4"	52.2 lb	71,400 lb	64,300 lb	30 mm	90 mm	77.7 kg	32,400 kg	29,100 kg
1-5/16"	4"	59.7 lb	83,000 lb	74,700 lb	32 mm	96 mm	88.8 kg	37,600 kg	33,900 kg
1-1/2"	4-1/2"	71.5 lb	97,400 lb	87,700 lb	36 mm	108 mm	106 kg	44,200 kg	39,800 kg
1-5/8"	5"	90.3 lb	118,000 lb	106,000 lb	40 mm	120 mm	134 kg	53,500 kg	48,200 kg
1-3/4"	5-1/2"	105 lb	141,000 lb	127,000 lb	44 mm	132 mm	157 kg	64,000 kg	57,600 kg

*Spliced strength.



TENEX™

12-STRANDS

TENEX-TEC™

PRODUCT CODE: 825

FIBER: Polyester

COLOR:

Coated black, blue, clear, green, orange, red, or yellow

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%

FEATURES AND BENEFITS:

- > High-tenacity polyester fiber
- > Samthane coated
- > Two ends per carrier
- > Abrasion resistant
- > Snag resistant
- > Good grip
- > Easy to splice in the field
- > Economical

APPLICATIONS:

- > Slings

Abrasion and snag resistant Tenex-TEC is a high-strength, low-stretch rope specifically designed with two ends per carrier. This construction allows more rope surface conformance to objects being lifted than standard single braid constructions. It is also Samthane coated to enhance wear life.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	2.2 lb	3,400 lb	3,100 lb	6 mm	18 mm	3.3 kg	1,500 kg	1,400 kg
5/16"	1"	3.2 lb	4,700 lb	4,200 lb	8 mm	24 mm	4.8 kg	2,100 kg	1,900 kg
3/8"	1-1/8"	4.3 lb	6,100 lb	5,500 lb	9 mm	27 mm	6.4 kg	2,800 kg	2,500 kg
7/16"	1-1/4"	6.5 lb	9,500 lb	8,600 lb	11 mm	33 mm	9.7 kg	4,300 kg	3,900 kg
1/2"	1-1/2"	9.2 lb	13,100 lb	11,800 lb	12 mm	36 mm	13.7 kg	5,900 kg	5,300 kg
5/8"	2"	14.8 lb	18,800 lb	16,900 lb	16 mm	48 mm	22.0 kg	8,500 kg	7,700 kg
3/4"	2-1/4"	17.7 lb	24,800 lb	22,300 lb	18 mm	54 mm	26.3 kg	11,200 kg	10,100 kg
7/8"	2-3/4"	26.7 lb	34,200 lb	30,800 lb	22 mm	66 mm	39.7 kg	15,500 kg	14,000 kg
1"	3"	34.7 lb	44,500 lb	40,100 lb	24 mm	72 mm	51.6 kg	20,200 kg	18,200 kg
1-1/4"	3-3/4"	55.0 lb	62,000 lb	55,800 lb	30 mm	90 mm	81.8 kg	28,100 kg	25,300 kg

*Spliced strength.

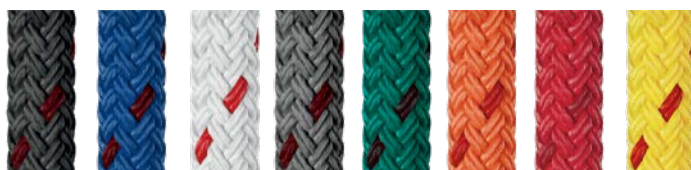


AMSTEEL® II

A strong, lightweight high-performance rope AmSteel® II has a strong core with a cover that creates a firm rope while serving to protect the strength-member core. This rope has extremely low elongation and is a lightweight replacement for wire rope.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	2.2 lb	4,500 lb	3,800 lb	6 mm	18 mm	3.3 kg	2,000 kg	1,700 kg
5/16"	1"	3.5 lb	7,500 lb	6,400 lb	8 mm	24 mm	5.2 kg	3,400 kg	2,900 kg
3/8"	1-1/8"	4.1 lb	9,800 lb	8,300 lb	9 mm	27 mm	6.1 kg	4,400 kg	3,800 kg
7/16"	1-1/4"	6.1 lb	11,700 lb	9,900 lb	11 mm	33 mm	9.1 kg	5,300 kg	4,500 kg
1/2"	1-1/2"	8.6 lb	15,500 lb	13,200 lb	12 mm	36 mm	12.8 kg	7,000 kg	6,000 kg
9/16"	1-3/4"	10.0 lb	22,000 lb	18,700 lb	14 mm	42 mm	14.9 kg	10,000 kg	8,500 kg
5/8"	2"	12.6 lb	27,000 lb	23,000 lb	16 mm	48 mm	18.7 kg	12,200 kg	10,400 kg
3/4"	2-1/4"	16.0 lb	35,000 lb	29,800 lb	18 mm	54 mm	23.8 kg	15,900 kg	13,500 kg
13/16"	2-1/2"	20.3 lb	40,000 lb	34,000 lb	20 mm	60 mm	30.2 kg	18,100 kg	15,400 kg
7/8"	2-3/4"	24.8 lb	50,000 lb	42,500 lb	22 mm	66 mm	36.9 kg	22,700 kg	19,300 kg
1"	3"	29.7 lb	57,000 lb	48,500 lb	24 mm	72 mm	44.2 kg	25,900 kg	22,000 kg
1-1/16"	3-1/4"	31.7 lb	59,300 lb	50,400 lb	26 mm	78 mm	47.2 kg	26,900 kg	22,900 kg
1-1/8"	3-1/2"	37.0 lb	72,900 lb	62,000 lb	28 mm	84 mm	55.1 kg	33,100 kg	28,100 kg
1-1/4"	3-3/4"	42.6 lb	81,000 lb	68,900 lb	30 mm	90 mm	63.4 kg	36,700 kg	31,200 kg

*Spliced strength.



PRODUCT CODE:

574 UNCOATED / 874 COATED

FIBER (CORE/COVER):

HMPE-MFP Blend / Polyester

COLOR:

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

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS:

Double Braid Class II

ELASTIC ELONGATION:

At percent of break strength
10% 0.50%
20% 0.67%
30% 0.96%

FEATURES AND BENEFITS:

- > Braided core of HMPE fiber
- > Braided polyester cover
- > Available with or without Samthane coating
- > Abrasion resistant
- > Low elongation
- > Lightweight

APPLICATIONS:

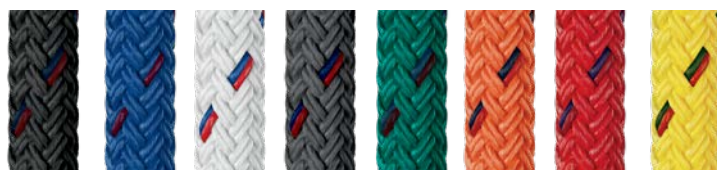
- > Winch lines
- > Pulling/stringing lines

AMSTEEL® II PLUS

A strong, lightweight high-performance rope AmSteel® II Plus has a high-strength core with a cover that creates a firm rope while serving to protect the strength-member core. This rope has extremely low elongation and is an even stronger, lightweight alternative for wire rope.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	2.2 lb	5,600 lb	4,800 lb	6 mm	18 mm	3.3 kg	2,500 kg	2,200 kg
5/16"	1"	3.5 lb	9,300 lb	7,900 lb	8 mm	24 mm	5.2 kg	4,200 kg	3,600 kg
3/8"	1-1/8"	4.1 lb	12,200 lb	10,400 lb	9 mm	27 mm	6.1 kg	5,500 kg	4,700 kg
7/16"	1-1/4"	6.1 lb	14,600 lb	12,400 lb	11 mm	33 mm	9.1 kg	6,600 kg	5,600 kg
1/2"	1-1/2"	8.6 lb	19,400 lb	16,500 lb	12 mm	36 mm	12.8 kg	8,800 kg	7,500 kg
9/16"	1-3/4"	10.0 lb	27,500 lb	23,400 lb	14 mm	42 mm	14.9 kg	12,500 kg	10,600 kg
5/8"	2"	12.6 lb	33,800 lb	28,700 lb	16 mm	48 mm	18.7 kg	15,300 kg	13,000 kg
3/4"	2-1/4"	16.0 lb	43,800 lb	37,200 lb	18 mm	54 mm	23.8 kg	19,900 kg	16,900 kg
13/16"	2-1/2"	20.3 lb	50,000 lb	42,500 lb	20 mm	60 mm	30.2 kg	22,700 kg	19,300 kg
7/8"	2-3/4"	24.8 lb	62,500 lb	53,100 lb	22 mm	66 mm	36.9 kg	28,400 kg	24,100 kg
1"	3"	29.7 lb	71,300 lb	60,600 lb	24 mm	72 mm	44.2 kg	32,300 kg	27,500 kg
1-1/8"	3-1/2"	37.0 lb	90,000 lb	76,500 lb	28 mm	84 mm	55.1 kg	40,800 kg	34,700 kg
1-1/4"	3-3/4"	42.6 lb	101,000 lb	85,900 lb	30 mm	90 mm	63.4 kg	45,800 kg	38,900 kg

*Spliced strength.



PRODUCT CODE:

575 UNCOATED / 875 COATED

FIBER (CORE/COVER):

HMPE / Polyester

COLOR:

White with blue and red ID
Coated black, blue, clear,
gray, orange, or yellow
— all with blue and red ID

SPECIFIC GRAVITY: 1.20

SPLICE/CLASS:

Double Braid Class II

ELASTIC ELONGATION:

At percent of break strength
10% 0.50%
20% 0.67%
30% 0.96%

FEATURES AND BENEFITS:

- > Polyester cover
- > Braided core of 100% HMPE fiber
- > Available with or without Samthane coating
- > Low elongation
- > Lightweight
- > Wire rope replacement

APPLICATIONS:

- > Winch lines
- > Pulling/stringing lines

PRODUCT CODE: 861

FIBER (CORE/COVER):
HMPE / HMPE

COLOR:
Charcoal with a red longitudinal line, and orange or yellow with a 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 resistance
- > Advanced creep properties
- > Samthane coated
- > Flexible
- > Durable
- > Easy to handle

APPLICATIONS:

- > Winch lines
- > Face and wing wire

Improved static load service life with Dyneema® SK78 Turbo-RC 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-RC spools on winches easily, does not rust or “fish hook” like wire rope, and it floats. Turbo-RC is specially designed for improved service life in applications where creep results from long-term static loads. Both cover and core are coated with a Samthane coating.

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

Turbo-RC has been verified by ABS according to MEG4, and is type approved by ABS.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
3/4"	2-1/4"	14.0 lb	59,000 lb	53,100 lb	18 mm	54 mm	20.8 kg	26,800 kg	24,100 kg
7/8"	2-3/4"	19.9 lb	82,000 lb	73,800 lb	22 mm	66 mm	29.6 kg	37,200 kg	33,500 kg
1"	3"	25.5 lb	97,000 lb	87,300 lb	24 mm	72 mm	37.9 kg	44,000 kg	39,600 kg
1-1/16"	3-1/4"	28.4 lb	113,000 lb	102,000 lb	26 mm	78 mm	42.3 kg	51,300 kg	46,100 kg
1-1/8"	3-1/2"	32.1 lb	125,000 lb	113,000 lb	28 mm	84 mm	47.8 kg	56,700 kg	51,000 kg
1-1/4"	3-3/4"	40.0 lb	150,000 lb	135,000 lb	30 mm	90 mm	59.5 kg	68,000 kg	61,200 kg
1-5/16"	4"	43.3 lb	165,000 lb	149,000 lb	32 mm	96 mm	64.4 kg	74,800 kg	67,400 kg
1-3/8"	4-1/8"	49.5 lb	185,000 lb	167,000 lb	34 mm	100 mm	73.7 kg	83,900 kg	75,500 kg
1-1/2"	4-1/2"	59.5 lb	210,000 lb	189,000 lb	36 mm	108 mm	88.5 kg	95,300 kg	85,700 kg

*Spliced strength.



DOUBLE BRAID

ULTRA-TECH™

PRODUCT CODE: 443

FIBER (CORE/COVER):
Aramid / Polyester

COLOR: Burgundy with black, blue, green, or red tracers

SPECIFIC GRAVITY: 1.38

SPLICE/CLASS:
Double Braid Class II

ELASTIC ELONGATION:
At percent of break strength
10% 0.63%
20% 0.97%
30% 1.24%

FEATURES AND BENEFITS:

- > 24-strand braided polyester cover
- > Aramid core
- > High strength
- > Heat resistant
- > Minimal creep
- > Low stretch
- > Flexible

APPLICATIONS:

- > Event/special effects rigging

A firm, flexible core with external-wear protection Ultra-Tech is a core-dependent double braid that is a firm, but flexible rope with a cover that protects the strength-member core from external wear. Technora® is known for its high strength, heat resistance, and low stretch. Technora® also has better resistance to flex-fatigue than other high-modulus aramid fibers.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
3/16"	9/16"	1.0 lb	2,300 lb	2,000 lb	5 mm	15 mm	1.5 kg	1,000 kg	890 kg
1/4"	3/4"	2.1 lb	4,800 lb	4,100 lb	6 mm	18 mm	3.1 kg	2,200 kg	1,900 kg
5/16"	1"	4.0 lb	7,800 lb	6,600 lb	8 mm	24 mm	6.0 kg	3,500 kg	3,000 kg
3/8"	1-1/8"	4.6 lb	10,000 lb	8,500 lb	9 mm	27 mm	6.8 kg	4,500 kg	3,900 kg
7/16"	1-1/4"	6.4 lb	14,800 lb	12,600 lb	11 mm	33 mm	9.5 kg	6,700 kg	5,700 kg
1/2"	1-1/2"	9.8 lb	20,000 lb	17,000 lb	12 mm	36 mm	14.6 kg	9,100 kg	7,700 kg
5/8"	2"	14.5 lb	42,000 lb	35,700 lb	16 mm	48 mm	21.6 kg	19,100 kg	16,200 kg
3/4"	2-1/4"	19.7 lb	51,000 lb	43,400 lb	18 mm	54 mm	29.3 kg	23,100 kg	19,700 kg
7/8"	2-3/4"	27.5 lb	68,000 lb	57,800 lb	22 mm	66 mm	40.9 kg	30,800 kg	26,200 kg

*Spliced strength.



NYSTRON™

Reliable in wet environments *Nystron* is a double braid that provides the advantages of high strength retention, good energy absorption and shock mitigation, along with excellent abrasion resistance, especially in wet environments. It is fully spliceable.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
3/8"	1-1/8"	4.4 lb	5,600 lb	4,800 lb	9 mm	27 mm	6.5 kg	2,500 kg	2,200 kg
7/16"	1-1/4"	5.7 lb	7,400 lb	6,300 lb	11 mm	33 mm	8.5 kg	3,400 kg	2,900 kg
1/2"	1-1/2"	7.7 lb	10,500 lb	8,900 lb	12 mm	36 mm	11.5 kg	4,800 kg	4,000 kg
9/16"	1-3/4"	10.0 lb	13,200 lb	11,200 lb	14 mm	42 mm	14.9 kg	6,000 kg	5,100 kg
5/8"	2"	12.6 lb	16,300 lb	13,900 lb	16 mm	48 mm	18.7 kg	7,400 kg	6,300 kg
3/4"	2-1/4"	17.3 lb	23,000 lb	19,600 lb	18 mm	54 mm	25.7 kg	10,400 kg	8,900 kg
7/8"	2-3/4"	19.0 lb	27,000 lb	23,000 lb	22 mm	66 mm	28.3 kg	12,200 kg	10,400 kg
1"	3"	34.0 lb	37,000 lb	31,500 lb	24 mm	72 mm	50.6 kg	16,800 kg	14,300 kg
1-1/8"	3-1/2"	39.2 lb	49,800 lb	42,300 lb	28 mm	84 mm	58.3 kg	22,600 kg	19,200 kg
1-1/4"	3-3/4"	46.9 lb	59,100 lb	50,200 lb	30 mm	90 mm	69.8 kg	26,800 kg	22,800 kg
1-1/2"	4-1/2"	71.2 lb	86,500 lb	73,500 lb	36 mm	108 mm	106 kg	39,200 kg	33,400 kg
1-5/8"	5"	76.9 lb	100,000 lb	85,000 lb	40 mm	120 mm	114 kg	45,400 kg	38,600 kg
2"	6"	114 lb	142,000 lb	121,000 lb	48 mm	144 mm	170 kg	64,400 kg	54,700 kg

*Spliced strength.



PRODUCT CODE:

591 UNCOATED / 891 COATED

FIBER (CORE/COVER):

Nylon / Polyester

COLOR: White with blue ID
Coated blue, green, orange,
or yellow — all with blue ID

SPECIFIC GRAVITY: 1.24

SPLICE/CLASS:

Double Braid Class I

ELASTIC ELONGATION:

At percent of break strength
10% 2.40%
20% 4.50%
30% 5.90%

FEATURES AND BENEFITS:

- > Nylon fiber core
- > Polyester cover
- > Abrasion resistant, especially in wet environments
- > Available with or without Samthane coating
- > High strength retention
- > Energy absorption
- > Shock mitigation

APPLICATIONS:

- > Winch lines

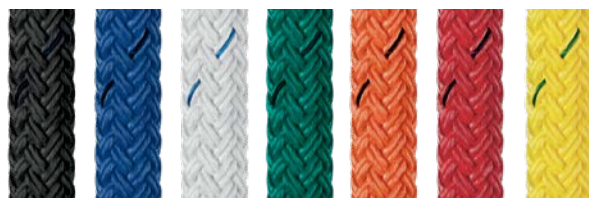
STABLE BRAID™

Versatile and dependable *Stable Braid* is a firm, polyester, double-braided rope with high strength, low stretch, and excellent resistance to wear.

Note: If meeting military specifications is required, please state when ordering or requesting a quote.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	2.1 lb	2,300 lb	2,000 lb	6 mm	18 mm	3.1 kg	1,000 kg	890 kg
5/16"	1"	3.2 lb	3,600 lb	3,100 lb	8 mm	24 mm	4.8 kg	1,600 kg	1,400 kg
3/8"	1-1/8"	4.5 lb	5,600 lb	4,800 lb	9 mm	27 mm	6.7 kg	2,500 kg	2,200 kg
7/16"	1-1/4"	6.1 lb	7,700 lb	6,500 lb	11 mm	33 mm	9.1 kg	3,500 kg	3,000 kg
1/2"	1-1/2"	8.2 lb	10,400 lb	8,800 lb	12 mm	36 mm	12.2 kg	4,700 kg	4,000 kg
9/16"	1-3/4"	11.0 lb	13,300 lb	11,300 lb	14 mm	42 mm	16.4 kg	6,000 kg	5,100 kg
5/8"	2"	14.0 lb	16,300 lb	13,900 lb	16 mm	48 mm	20.8 kg	7,400 kg	6,300 kg
3/4"	2-1/4"	18.0 lb	20,400 lb	17,300 lb	18 mm	54 mm	26.8 kg	9,300 kg	7,900 kg
7/8"	2-3/4"	27.1 lb	29,900 lb	25,400 lb	22 mm	66 mm	40.3 kg	13,600 kg	11,500 kg
1"	3"	34.0 lb	39,200 lb	33,300 lb	24 mm	72 mm	50.6 kg	17,800 kg	15,100 kg
1-1/8"	3-1/2"	45.3 lb	48,200 lb	41,000 lb	28 mm	84 mm	67.4 kg	21,900 kg	18,600 kg
1-1/4"	3-3/4"	53.9 lb	57,300 lb	48,700 lb	30 mm	90 mm	80.2 kg	26,000 kg	22,100 kg

*Spliced strength.



PRODUCT CODE:

506 UNCOATED / 806 COATED

FIBER (CORE/COVER):

Polyester/ Polyester

COLOR: White with blue ID.
Coated 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:

- > Polyester cover and core
- > Torque-free construction
- > Durable
- > Abrasion resistant
- > UV resistant
- > Heat resistant
- > Flex-fatigue resistance
- > Firm and flexible
- > Low elongation

APPLICATIONS:

- > Utility rigging
- > Winch lines
- > Pulling/stringing lines
- > Stage rigging

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:

- > High-tenacity nylon fiber
- > Pro-Gard™ finish
- > Firm
- > Flexible
- > Excellent shock mitigation

APPLICATIONS:

- > Winch lines

Excellent in all conditions Super Strong is a firm but flexible double braid of high-tenacity nylon fiber treated with Pro-Gard marine finish, which maximizes wet wear life and strength.

Note: If meeting military specifications is required, please state when ordering or requesting a quote.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	1.8 lb	2,200 lb	1,900 lb	6 mm	18 mm	2.7 kg	1,000 kg	860 kg
5/16"	1"	2.6 lb	3,400 lb	2,900 lb	8 mm	24 mm	3.9 kg	1,500 kg	1,300 kg
3/8"	1-1/8"	3.8 lb	4,700 lb	4,000 lb	9 mm	27 mm	5.7 kg	2,100 kg	1,800 kg
7/16"	1-1/4"	5.1 lb	6,600 lb	5,600 lb	11 mm	33 mm	7.6 kg	3,000 kg	2,500 kg
1/2"	1-1/2"	6.6 lb	8,600 lb	7,300 lb	12 mm	36 mm	9.8 kg	3,900 kg	3,300 kg
9/16"	1-3/4"	9.3 lb	11,900 lb	10,100 lb	14 mm	42 mm	13.8 kg	5,400 kg	4,600 kg
5/8"	2"	12.0 lb	15,200 lb	12,900 lb	16 mm	48 mm	17.9 kg	6,900 kg	5,900 kg
3/4"	2-1/4"	15.0 lb	18,800 lb	16,000 lb	18 mm	54 mm	22.3 kg	8,500 kg	7,200 kg
7/8"	2-3/4"	22.0 lb	29,000 lb	24,700 lb	22 mm	66 mm	32.7 kg	13,200 kg	11,200 kg
1"	3"	26.0 lb	36,000 lb	30,600 lb	24 mm	72 mm	38.7 kg	16,300 kg	13,900 kg
1-1/16"	3-1/4"	31.0 lb	40,700 lb	34,600 lb	26 mm	78 mm	46.1 kg	18,500 kg	15,700 kg
1-1/8"	3-1/2"	36.0 lb	45,000 lb	38,300 lb	28 mm	84 mm	53.6 kg	20,400 kg	17,400 kg
1-1/4"	3-3/4"	41.0 lb	52,000 lb	44,200 lb	30 mm	90 mm	61.0 kg	23,600 kg	20,000 kg
1-5/16"	4"	43.5 lb	59,300 lb	50,400 lb	32 mm	96 mm	64.7 kg	26,900 kg	22,900 kg
1-1/2"	4-1/2"	60.0 lb	75,600 lb	64,300 lb	36 mm	108 mm	89.3 kg	34,300 kg	29,100 kg

*Spliced strength.

DOUBLE BRAID

Online Training & Resources

SamsonRope.com features a growing library of information and training on a wide range of topics, including:

- > Splicing rope
- > Surface preparation for synthetic ropes
- > Effect of twist on braided ropes
- > Jacketed vs. non-jacketed rope constructions
- > Rope inspection and retirement
- > Elongation causes and effects

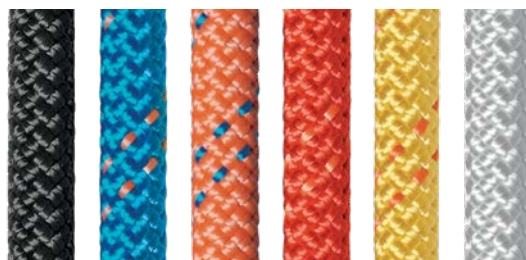


STATIC ROPE™

Meets or exceeds NFPA 1983 standards *Static Rope* is a firm but flexible kernmantle construction, *Static Rope* is designed to meet the demands of rescue, rappelling, and specialty rigging operations.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
3/8"	1-1/8"	4.2 lb	5,700 lb	4,800 lb	9 mm	27 mm	6.2 kg	2,600 kg	2,200 kg
7/16"	1-1/4"	6.0 lb	8,200 lb	7,000 lb	11 mm	33 mm	8.9 kg	3,700 kg	3,200 kg
1/2"	1-1/2"	8.0 lb	11,000 lb	9,400 lb	12 mm	36 mm	11.9 kg	5,000 kg	4,200 kg
5/8"	2"	11.2 lb	13,500 lb	11,500 lb	16 mm	48 mm	16.7 kg	6,100 kg	5,200 kg

*Unspliced strength.



PRODUCT CODE: 484

FIBER (CORE/COVER):

Nylon / Polyester

COLOR: Black, blue with orange ID, orange with blue ID, red with orange ID, yellow with orange ID, or white

SPECIFIC GRAVITY: 1.24

SPLICE/CLASS:

Non-spliceable Class I

ELASTIC ELONGATION:

At percent of break strength

10% 3.20%

20% 4.50%

30% 6.00%

FEATURES AND BENEFITS:

- > Kernmantle braid
- > High tenacity nylon core
- > Polyester cover
- > Abrasion-resistant
- > Excellent shock mitigation
- > Retains shape with use

APPLICATIONS:

- > High-angle rescue
- > Static rappelling
- > Lifelines
- > Stunts
- > Specialty rigging
- > Block and fall lines

MERCURY™

Stationary rope system climbing, rappelling, rescue and specialty rigging operations can make high demands of a rope, and Samson answers with its *Mercury* Kernmantle climbing line. *Mercury* is designed to equal or exceed the NFPA 1983 standards, and provides firm body and good shock mitigation. It is a balanced non-rotational rope with a high-tenacity, solution-dyed braided polyester cover over a heat-stabilized nylon core. This is an excellent rappelling, rescue, and high-strength static ascent line.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
7/16"	1-1/4"	6.0 lb	8,600 lb	7,300 lb	11 mm	33 mm	8.9 kg	3,900 kg	3,300 kg

*Unspliced strength.



PRODUCT CODE: 485

FIBER (CORE/COVER):

Nylon / Polyester

COLOR:

COOL variegated blue blend or HOT variegated orange blend

SPECIFIC GRAVITY: 1.24

SPLICE/CLASS:

Non-spliceable Class I

ELASTIC ELONGATION:

At percent of break strength

10% 3.70%

20% 6.60%

30% 8.00%

FEATURES AND BENEFITS:

- > Kernmantle braid
- > High tenacity nylon core
- > Polyester cover
- > Abrasion-resistant
- > Excellent shock mitigation
- > Retains shape with use

APPLICATIONS:

- > Single-rope technique climbing
- > High-angle rescue
- > Static rappelling
- > Safety lifeline
- > Climbing line

CLASS I

PRO-MASTER™

PRODUCT CODE: 168

FIBER:

Polyolefin-Polyester Blend

COLOR:

White with green ID

SPLICE/CLASS:

3-Strand Class I

ELASTIC ELONGATION:

At percent of break strength

10% 2.00%

20% 3.20%

30% 3.90%

FEATURES AND BENEFITS:

- > High-tenacity polyester fiber
- > Balanced construction
- > Low stretch
- > Excellent knot holding
- > Retains shape with use
- > Remains flexible with use

APPLICATIONS:

- > Rigging lines
- > Hand lines
- > Block/fall lines
- > Stage counterweight

A firm rope that's soft on the hand *Pro-Master* is a tough, durable, 3-strand rigging rope. It remains firm, round, and flexible with use. It has a soft hand with excellent lock-grip and knot-holding capabilities.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
3/8"	1-1/8"	3.7 lb	3,200 lb	2,900 lb	9 mm	27 mm	5.5 kg	1,500 kg	1,300 kg
1/2"	1-1/2"	6.5 lb	5,700 lb	5,100 lb	12 mm	36 mm	9.7 kg	2,600 kg	2,300 kg
5/8"	2"	9.6 lb	7,700 lb	6,900 lb	16 mm	48 mm	14.3 kg	3,500 kg	3,100 kg
3/4"	2-1/4"	13.9 lb	10,000 lb	9,000 lb	18 mm	54 mm	20.7 kg	4,500 kg	4,100 kg
7/8"	2-3/4"	18.0 lb	14,500 lb	13,100 lb	22 mm	66 mm	26.8 kg	6,600 kg	5,900 kg
1"	3"	22.0 lb	17,500 lb	15,800 lb	24 mm	72 mm	32.7 kg	7,900 kg	7,100 kg

*Spliced strength.

3-STRAND

PRO-SET-3™

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% 5.50%

20% 10.00%

30% 12.10%

FEATURES AND BENEFITS:

- > Four-stage construction
- > High-tenacity nylon fiber
- > Heat stabilized
- > Hockle resistant
- > Remains flexible with use
- > High elasticity
- > Excellent shock mitigation
- > Durable

APPLICATIONS:

- > Hand lines
- > Block lines

Shock mitigation and full-performance flexibility *Pro-Set-3* is a premium 3-strand, 4-stage rope. It is manufactured to minimize shrinkage, snagging, and hockling, while maximizing strength, durability, and flexibility. *Pro-Set-3* is easy to handle and splice.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
3/16"	9/16"	1.0 lb	1,200 lb	1,100 lb	5 mm	15 mm	1.5 kg	540 kg	490 kg
1/4"	3/4"	1.5 lb	1,600 lb	1,400 lb	6 mm	18 mm	2.2 kg	730 kg	650 kg
5/16"	1"	2.5 lb	2,600 lb	2,300 lb	8 mm	24 mm	3.7 kg	1,200 kg	1,100 kg
3/8"	1-1/8"	3.5 lb	3,600 lb	3,200 lb	9 mm	27 mm	5.2 kg	1,600 kg	1,500 kg
7/16"	1-1/4"	5.0 lb	4,800 lb	4,300 lb	11 mm	33 mm	7.4 kg	2,200 kg	2,000 kg
1/2"	1-1/2"	6.2 lb	6,300 lb	5,700 lb	12 mm	36 mm	9.2 kg	2,900 kg	2,600 kg
9/16"	1-3/4"	8.1 lb	7,900 lb	7,100 lb	14 mm	42 mm	12.1 kg	3,600 kg	3,200 kg
5/8"	2"	10.5 lb	10,000 lb	9,000 lb	16 mm	48 mm	15.6 kg	4,500 kg	4,100 kg
3/4"	2-1/4"	14.5 lb	13,500 lb	12,200 lb	18 mm	54 mm	21.6 kg	6,100 kg	5,500 kg
13/16"	2-1/2"	17.0 lb	15,300 lb	13,800 lb	20 mm	60 mm	25.3 kg	6,900 kg	6,200 kg
7/8"	2-3/4"	20.0 lb	19,000 lb	17,100 lb	22 mm	66 mm	29.8 kg	8,600 kg	7,800 kg
1"	3"	26.0 lb	25,000 lb	22,500 lb	24 mm	72 mm	38.7 kg	11,300 kg	10,200 kg
1-1/16"	3-1/4"	29.0 lb	27,200 lb	24,500 lb	26 mm	78 mm	43.2 kg	12,300 kg	11,100 kg
1-1/8"	3-1/2"	34.0 lb	32,000 lb	28,800 lb	28 mm	84 mm	50.6 kg	14,500 kg	13,100 kg
1-1/4"	3-3/4"	40.0 lb	37,500 lb	33,800 lb	30 mm	90 mm	59.5 kg	17,000 kg	15,300 kg
1-5/16"	4"	45.0 lb	41,500 lb	37,400 lb	32 mm	96 mm	67.0 kg	18,800 kg	16,900 kg
1-1/2"	4-1/2"	55.0 lb	52,000 lb	46,800 lb	36 mm	108 mm	81.8 kg	23,600 kg	21,200 kg

*Spliced strength.

SSR-100-3™

Durable and economical SSR-100-3 is a combination fiber, 3-strand rope with an excellent wear life and high strength-to-weight ratio. SSR-100-3 is produced with high-strength plied-filament polyester surface yarns wrapped over our high-tenacity Ultra Blue fiber. This rope offers the durability of polyester, but with higher strengths than other combination ropes.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	1.4 lb	1,800 lb	1,600 lb	6 mm	18 mm	2.1 kg	820 kg	730 kg
5/16"	1"	2.4 lb	2,800 lb	2,500 lb	8 mm	24 mm	3.6 kg	1,300 kg	1,100 kg
3/8"	1-1/8"	3.4 lb	4,100 lb	3,700 lb	9 mm	27 mm	5.1 kg	1,900 kg	1,700 kg
7/16"	1-1/4"	4.9 lb	5,100 lb	4,600 lb	11 mm	33 mm	7.3 kg	2,300 kg	2,100 kg
1/2"	1-1/2"	6.0 lb	6,900 lb	6,200 lb	12 mm	36 mm	8.9 kg	3,100 kg	2,800 kg
9/16"	1-3/4"	8.5 lb	9,100 lb	8,200 lb	14 mm	42 mm	12.6 kg	4,100 kg	3,700 kg
5/8"	2"	9.5 lb	10,000 lb	9,000 lb	16 mm	48 mm	14.1 kg	4,500 kg	4,100 kg

*Spliced strength.

PRODUCT CODE: 200

FIBER:

Polyolefin-Polyester Blend

COLOR: White with
green and red fleck

SPECIFIC GRAVITY: 1.18

SPLICE/CLASS:

3-Strand Class I

ELASTIC ELONGATION:

At percent of break strength

10%1.60%
20%3.50%
30%4.70%

FEATURES AND BENEFITS:

- > High-strength polyester fiber wrapped over high-tenacity polyolefin fiber
- > Durable
- > Economical
- > Hockle resistant
- > Easily spliced in the field

APPLICATIONS:

- > Hand lines
- > Block lines

SSR-1200-3™

As strong and durable as polyester, but lighter in weight SSR-1200-3 ropes are a compound-plied yarn construction that utilizes the ultimate compatibility of 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.

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
3/4"	2-1/4"	14.4 lb	14,800 lb	13,300 lb	18 mm	54 mm	21.4 kg	6,700 kg	6,000 kg
13/16"	2-1/2"	17.3 lb	17,600 lb	15,800 lb	20 mm	60 mm	25.7 kg	8,000 kg	7,200 kg
7/8"	2-3/4"	20.6 lb	20,900 lb	18,800 lb	22 mm	66 mm	30.7 kg	9,500 kg	8,500 kg
1"	3"	25.6 lb	25,400 lb	22,900 lb	24 mm	72 mm	38.1 kg	11,500 kg	10,400 kg
1-1/8"	3-1/2"	33.0 lb	32,800 lb	29,500 lb	28 mm	84 mm	49.1 kg	14,900 kg	13,400 kg
1-1/4"	3-3/4"	39.4 lb	39,000 lb	35,100 lb	30 mm	90 mm	58.6 kg	17,700 kg	15,900 kg
1-5/16"	4"	43.3 lb	43,000 lb	38,700 lb	32 mm	96 mm	64.4 kg	19,500 kg	17,600 kg
1-1/2"	4-1/2"	56.2 lb	54,000 lb	48,600 lb	36 mm	108 mm	83.6 kg	24,500 kg	22,000 kg
1-5/8"	5"	68.0 lb	65,000 lb	58,500 lb	40 mm	120 mm	101 kg	29,500 kg	26,500 kg
1-3/4"	5-1/2"	78.4 lb	75,000 lb	67,500 lb	44 mm	132 mm	117 kg	34,000 kg	30,600 kg
2"	6"	99.0 lb	94,000 lb	84,600 lb	48 mm	144 mm	147 kg	42,600 kg	38,400 kg
2-1/8"	6-1/2"	111 lb	105,000 lb	94,500 lb	52 mm	156 mm	166 kg	47,600 kg	42,900 kg
2-1/4"	7"	129 lb	120,000 lb	108,000 lb	56 mm	168 mm	192 kg	54,400 kg	49,000 kg
2-1/2"	7-1/2"	156 lb	142,000 lb	128,000 lb	60 mm	180 mm	232 kg	64,400 kg	58,000 kg
2-5/8"	8"	170 lb	156,000 lb	140,000 lb	64 mm	192 mm	253 kg	70,800 kg	63,700 kg
3"	9"	221 lb	202,000 lb	182,000 lb	72 mm	216 mm	328 kg	91,600 kg	82,500 kg
3-1/4"	10"	263 lb	240,000 lb	216,000 lb	80 mm	240 mm	391 kg	109,000 kg	98,000 kg

*Spliced strength.

PRODUCT CODE: 220

FIBER:

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:

- > Compound plied-polyester yarn and polyolefin fiber
- > Higher strength
- > Durable
- > Economical
- > Lighter weight than an all-polyester rope

APPLICATIONS:

- > Hand lines
- > Block lines

CLASS I

PRODUCT CODE: 130

FIBER: Polyolefin

COLOR:

Blue with green and red ID

SPECIFIC 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:

- > Samson's proprietary bi-polymer polyolefin fiber
- > 30–35% stronger than standard polypropylene
- > Durable
- > Abrasion resistant
- > Excellent grip
- > Repels water
- > UV resistant
- > Lightweight
- > Good dielectric properties

APPLICATIONS:

- > Hand line
- > Pilot lines
- > Block lines

Lighter in weight and more durable than polypropylene

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

SIZE DIAMETER INCHES	SIZE CIRC. INCHES	WEIGHT PER 100 FT. POUNDS	AVERAGE STRENGTH* POUNDS	MINIMUM STRENGTH* POUNDS	SIZE DIAMETER MILLIMETERS	SIZE CIRC. MILLIMETERS	WEIGHT PER 100 m KILOGRAMS	AVERAGE STRENGTH* KILOGRAMS	MINIMUM STRENGTH* KILOGRAMS
1/4"	3/4"	1.1 lb	1,700 lb	1,500 lb	6 mm	18 mm	1.6 kg	770 kg	690 kg
5/16"	1"	2.1 lb	2,600 lb	2,300 lb	8 mm	24 mm	3.1 kg	1,200 kg	1,100 kg
3/8"	1-1/8"	2.6 lb	3,700 lb	3,300 lb	9 mm	27 mm	3.9 kg	1,700 kg	1,500 kg
7/16"	1-1/4"	3.1 lb	4,600 lb	4,100 lb	11 mm	33 mm	4.6 kg	2,100 kg	1,900 kg
1/2"	1-1/2"	4.5 lb	6,100 lb	5,500 lb	12 mm	36 mm	6.7 kg	2,800 kg	2,500 kg
9/16"	1-3/4"	6.3 lb	8,400 lb	7,600 lb	14 mm	42 mm	9.4 kg	3,800 kg	3,400 kg
5/8"	2"	8.0 lb	10,600 lb	9,500 lb	16 mm	48 mm	11.9 kg	4,800 kg	4,300 kg
3/4"	2-1/4"	10.2 lb	12,000 lb	10,800 lb	18 mm	54 mm	15.2 kg	5,400 kg	4,900 kg
7/8"	2-3/4"	15.8 lb	18,000 lb	16,200 lb	22 mm	66 mm	23.5 kg	8,200 kg	7,300 kg
1"	3"	18.6 lb	22,600 lb	20,300 lb	24 mm	72 mm	27.7 kg	10,300 kg	9,200 kg
1-1/8"	3-1/2"	24.7 lb	26,600 lb	23,900 lb	28 mm	84 mm	36.8 kg	12,100 kg	10,900 kg
1-1/4"	3-3/4"	28.9 lb	33,000 lb	29,700 lb	30 mm	90 mm	43.0 kg	15,000 kg	13,500 kg
1-5/16"	4"	32.5 lb	37,000 lb	33,300 lb	32 mm	96 mm	48.4 kg	16,800 kg	15,100 kg
1-1/2"	4-1/2"	41.2 lb	42,000 lb	37,800 lb	36 mm	108 mm	61.3 kg	19,100 kg	17,100 kg

*Spliced strength.

3-STRAND

ULTRA-BLUE 3™

CLASS II HIGH-PERFORMANCE

PRODUCT CODE: 811

FIBER: HMPE

COLOR: Gray (Lash-It!),
yellow (Zing-It!)

SPECIFIC GRAVITY:

0.98 (floats)

SPLICE/CLASS:

Non-spliceable Class II

ELASTIC ELONGATION:

At percent of break strength

10% 0.40%

20% 0.81%

30% 1.20%

FEATURES AND BENEFITS:

- > Single braid
- > HMPE fiber
- > Samthane coating
- > High strength-to-weight ratio
- > Low stretch
- > Lightweight
- > Abrasion resistant

APPLICATIONS:

- > Climbing and rigging accessories
- > Throwing line

All-purpose accessory cord

Lash-It! and *Zing-It!* yield the highest strength, lightest weight, lowest stretch, and longest wear life available. The Samthane coating adds to the twine's wear life, ensures its knot-holding capability, and gives it a distinctive gray or yellow color.

LASH-IT!

SIZE DIAMETER INCHES	AVERAGE STRENGTH* POUNDS	PUT-UP FEET	UNIT PER CARTON	PUT-UP WT. POUNDS	SIZE DIAMETER MILLIMETERS	AVERAGE STRENGTH* KILOGRAMS
1/16"	500 lb	180'	Tube (12)	0.22 lb	1.75 mm	230 kg
1/16"	500 lb	600'	Reel (1)	0.72 lb	1.75 mm	230 kg
3/32"	650 lb	180'	Tube (12)	0.29 lb	2.2 mm	290 kg
3/32"	650 lb	600'	Reel (1)	0.96 lb	2.2 mm	290 kg

*Unspliced strength.

ZING-IT!

SIZE DIAMETER INCHES	AVERAGE STRENGTH* POUNDS	PUT-UP FEET	UNIT PER CARTON	PUT-UP WT. POUNDS	SIZE DIAMETER MILLIMETERS	AVERAGE STRENGTH* KILOGRAMS
1/16"	500 lb	180'	Tube (12)	0.22 lb	1.75 mm	230 kg
1/16"	500 lb	1,000'	Reel (1)	1.2 lb	1.75 mm	230 kg
3/32"	650 lb	180'	Tube (12)	0.29 lb	2.2 mm	290 kg
3/32"	650 lb	600'	Reel (1)	0.96 lb	2.2 mm	290 kg

*Unspliced strength.

LASH-IT!™/ZING-IT!™



WHOOPIE SLING™

Durable and versatile Whoopie Slings are adjustable lifting slings that have a permanent eye at one end and an adjustable eye at the other end to accommodate a wide range of lifting requirements. The adjustment allows snug lifting control and minimizes the number of fixed-length slings required. The sling is a braided, torque-free, polyester rope with Samthane coating. The coating provides increased sling durability and the color identifies the sling capacity.



Adjustable lifting slings allow snug lifting control and minimize the number of fixed length slings required.

SIZE DIAMETER INCHES	COLOR	UNIT WEIGHT POUNDS	ADJUSTMENT LENGTH FEET	PERMANENT EYE SIZE INCHES	SINGLE LEG POUNDS	CHOKER POUNDS	BASKET POUNDS
1/2"	Blue	1.2 lb	2-1/2 – 4 ft	5"	2,200 lb	1,760 lb	4,400 lb
5/8"	Red	1.7 lb	3 – 5 ft	6"	3,200 lb	2,560 lb	6,400 lb
3/4"	Orange	2.8 lb	3-1/2 – 6 ft	7"	4,200 lb	3,380 lb	8,400 lb

SIZE DIAMETER MILLIMETERS	COLOR	UNIT WEIGHT KILOGRAMS	ADJUSTMENT LENGTH METERS	PERMANENT EYE SIZE MILLIMETERS	SINGLE LEG KILOGRAMS	CHOKER KILOGRAMS	BASKET KILOGRAMS
12 mm	Blue	0.5 kg	0.8 – 1.2 ft	125 mm	1,000 kg	800 kg	2,000 kg
16 mm	Red	0.8 kg	0.9 – 1.5 ft	150 mm	1,500 kg	1,200 kg	2,900 kg
18 mm	Orange	1.3 kg	1.1 – 1.8 ft	180 mm	1,900 kg	1,500 kg	3,800 kg

*Rated capacities are for slings in vertical lift use and spliced in accordance with Samson factory procedure

Rated Capacities*

PRODUCT CODE: 689

FIBER: Polyester

COLOR: Varies by diameter

SPLICE/CLASS:
Prespliced

ELASTIC ELONGATION:

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

FEATURES AND BENEFITS:

- > A permanent eye splice at one end and an adjustable eye at the other
- > Adapts to varying loads
- > Snug lifting control
- > Minimizes the number of fixed length slings required
- > Three sizes to choose from
- > Permanently tagged with capacity

SLING ANGLE (FROM VERTICAL)

0°	15°	30°	45°	60°	75°
1.00	.966	.866	.707	.500	.259

For angles other than vertical, multiply by the "Load Angle Factor" in the table shown to obtain the reduced rating based on the calculated sling lift angle.



1/2" (12mm) diameter
2.5–4 ft. length, 5" permanent eye



5/8" (16mm) diameter
3–5 ft. length, 6" permanent eye



3/4" (18mm) diameter
3.5–6 ft. length, 7" permanent eye

PTS-3 Nylon & 3-Strand Vertico Vertical Lifelines

All lifelines are supplied with a permanently attached safety rating tag, and shrink tube over splice areas. All plain ends are heat sealed and protected with shrink tube.

Lifelines come in 25' to 750' lengths, (50' increments from 100' on).

Terminations are available in the following configurations:

- > Thimble, one end
- > Safety hook, one end
- > Thimble, both ends
- > Safety hook, one end; thimble, other
- > Safety hook, both ends

PTS-3 Nylon and Vertico are available in pre-spliced fabricated lifelines or in bulk lengths of 600, 1,200, and 2,400 feet. Bulk rope is supplied with no splices, no tags, and no hardware.



PTS-3 Nylon FIRM LAY LIFELINE

PRODUCT CODE: 660

Conforms to ANSI Z-359.1-2007.
Meets California and federal OSHA requirements

FEATURES AND BENEFITS:

- > Premium heat-set nylon
- > High-visibility orange Samthane coating
- > Abrasion and snag resistant
- > Extended wear resistance
- > Firm yet flexible
- > Excellent shock mitigation

Diameter	Min. Break Strength
5/8"	10,400 lb
16 mm	4,700 kg

SPECIFIC GRAVITY: 1.14

SPLICE/CLASS:

3-Strand Class I

ELASTIC ELONGATION:

At percent of break strength	
10%	7.80%
20%	11.3%
30%	15.6%

Rope stabilized from 200D? Ropes cycled 50 times at each percent of average break strength.



3-Strand Vertico FIRM LAY LIFELINE

PRODUCT CODE: 230

Conforms to ANSI Z-359.1-1992.
Meets California and federal OSHA requirements

FEATURES AND BENEFITS:

- > High-strength continuous filament polyester surface yarns wrapped over high tenacity Ultra Blue fiber
- > Excellent wear
- > High strength-to-weight ratio

Diameter	Min. Break Strength
5/8"	9,400 lb
16 mm	4,200 kg

SPECIFIC GRAVITY: 1.18

SPLICE/CLASS:

3-Strand Class I

ELASTIC ELONGATION:

At percent of break strength	
10%	1.60%
20%	3.50%
30%	4.70%

Rope stabilized from 200D? Ropes cycled 50 times at each percent of average break strength.



PANTHER™ RECOVERY SLING



At a fraction of the weight of wire, chain, or Kevlar®, Panther radically reduces manpower requirements and safety hazards

Panther is a lightweight, high-strength, low-stretch recovery tow sling designed to be reliable and safe for your mining and vehicle recovery operations. The 12-strand multiple grommet strength member is made of 100% Dyneema® fiber, with chafe protection that provides Panther with the appearance and ease of handling of a single leg tow sling, while providing superior abrasion resistance.

PRODUCT CODE: 804

FIBER (Core/Cover):
HMPE/HMPE

COLOR: Pink

CONSTRUCTION/CLASS:
Fabricated Core-Dependent
Class II

AVERAGE STRENGTH* TONS	MINIMUM STRENGTH** TONS	NOMINAL EYE SIZE INCHES	OVERALL LENGTH FEET	UNIT WEIGHT POUNDS	AVERAGE STRENGTH* METRIC TONS	MINIMUM STRENGTH** METRIC TONS	NOMINAL EYE SIZE MILLIMETERS	OVERALL LENGTH METERS	UNIT WEIGHT KILOGRAMS
22 t	20 t	12"	20 ft	6.3 lb	20 mt	18 mt	150 mm	6 m	2.9 kg
			33 ft	10.1 lb				10 m	4.6 kg
			50 ft	14.9 lb				15 m	6.8 kg
33 t	30 t	12"	20 ft	8.4 lb	30 mt	27 mt	300 mm	6 m	3.8 kg
			33 ft	13.5 lb				10 m	6.1 kg
			50 ft	19.9 lb				15 m	9.0 kg
61 t	54 t	12"	20 ft	13.7 lb	55 mt	49 mt	300 mm	6 m	6.2 kg
			33 ft	22.1 lb				10 m	10.0 kg
			50 ft	32.6 lb				15 m	14.8 kg
127 t	114 t	18"	20 ft	25.5 lb	115 mt	104 mt	450 mm	6 m	11.6 kg
			33 ft	40.9 lb				10 m	18.6 kg
			50 ft	57.6 lb				15 m	26.1 kg
166 t	149 t	18"	20 ft	32.7 lb	150 mt	135 mt	450 mm	6 m	14.9 kg
			33 ft	51.7 lb				10 m	23.4 kg
			50 ft	69.5 lb				15 m	31.5 kg
221 t	198 t	18"	20 ft	47.2 lb	200 mt	180 mt	450 mm	6 m	21.4 kg
			33 ft	73.8 lb				10 m	33.5 kg
			50 ft	104 lb				15 m	47.1 kg
287 t	258 t	18"	20 ft	56.7 lb	260 mt	234 mt	450 mm	6 m	25.7 kg
			33 ft	89.5 lb				10 m	40.6 kg
			50 ft	131 lb				15 m	59.2 kg
347 t	312 t	18"	20 ft	72.6 lb	315 mt	283 mt	450 mm	6 m	32.9 kg
			33 ft	114 lb				10 m	51.8 kg
			50 ft	166 lb				15 m	75.5 kg
458 t	412 t	18"	20 ft	95.6 lb	415 mt	374 mt	450 mm	6 m	43.4 kg
			33 ft	149 lb				10 m	67.6 kg
			50 ft	216 lb				15 m	97.8 kg
772 t	694 t	24"	20 ft	159 lb	700 mt	630 mt	600 mm	6 m	72.2 kg
			33 ft	243 lb				10 m	110 kg
			50 ft	347 lb				15 m	157 kg

FEATURES AND BENEFITS:

- > Abrasion resistant and durable
- > Reduced recoil risk with HMPE cover
- > Light weight with faster change-outs
- > Flexible
- > Tagged with Working Load Limits based on 2:1, 3:1 and 5:1 Factor of Safety.

*Panther lengths/strengths listed in the table above are standard product offerings. Other lengths/strengths available, may require additional lead time.



Panther is not currently approved for lifting.



LINK-IT PLUS™ SOFT SHACKLE



Shown with Panther Recovery Tow Sling — sold separately.
Link-It Plus (or Panther) not currently approved for lifting.

PRODUCT CODE: 812

FIBER: HMPE

COLOR: Blue with orange tag

SPECIFIC GRAVITY:
0.98 (floats)

CONSTRUCTION/CLASS:
Fabricated 12-strand
Class II

FEATURES AND BENEFITS:

- > Quick, easy attachment and detachment
- > High strength
- > Light weight; less likely to cause injury
- > Shorter connection lengths
- > Will not corrode or rust

Replace steel shackles with a lightweight alternative Link-It Plus is a soft shackle made from Samson's AmSteel® Blue, providing an easy to use, lightweight connection method. Replacing steel shackles or other connection types, Link-It Plus will not corrode or rust, and has short connection lengths. Link-It Plus comes with chafe protection and attached tag with rating information included.

WORKING LOAD LIMIT (5:1 FACTOR OF SAFETY) TONS	BASE ROPE DIAMETER INCHES	AVERAGE STRENGTH RATING* POUNDS	MINIMUM STRENGTH RATING* POUNDS
2.5 t	1/4"	29,200 lb	24,800 lb
3.5 t	5/16"	41,500 lb	35,300 lb
6.0 t	7/16"	72,000 lb	61,200 lb
9.0 t	9/16"	107,000 lb	91,000 lb
11 t	5/8"	127,000 lb	108,000 lb
25 t	1-1/16"	296,000 lb	252,000 lb
35 t	1-5/16"	415,000 lb	353,000 lb
56 t	1-3/4"	658,000 lb	559,000 lb
84 t	2-1/4"	984,000 lb	836,000 lb

*Spliced strengths.

ADDITIONAL SIZES MAY BE AVAILABLE, CONTACT CUSTOMER SERVICE FOR MORE INFORMATION.



Specifications only apply to Samson manufactured Link-It Plus soft shackles. Samson provides all Link-It soft shackles with a durable tag. Please refer to tag for important use information.

SOFT SHACKLE



Link-It Plus is not currently approved for lifting.

UNDERSTANDING ABRASION

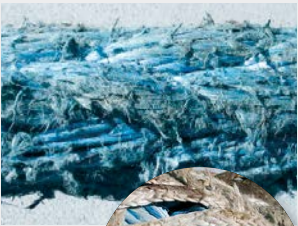
While high-performance ropes made with HMPE fiber are naturally cut and abrasion resistant, abrasion is still one of the main causes of rope failure. If no remedial actions are taken, abrasion will reduce the rope's residual strength and ultimately affect rope reliability and shorten the service life of the rope.

There are two types of abrasion—external and internal. Both are caused, at least in part, by the rope's movement over rough or poorly prepared/maintained surfaces.

EXTERNAL ABRASION is easy to spot: broken fibers at the surface of the rope give it a “fuzzy” appearance. Visual inspection and an appraisal of the percentage of fibers that are damaged is a relatively simple process.

INTERNAL ABRASION, caused by the relative movement of strands and fibers within the rope, is indicated by broken, powdered, or fused fibers within the rope's construction. Repeated bending over hardware, chocks, or sheaves is often the culprit. Opening up the rope and inspecting the fibers within is easily accomplished on 12-strand or 8-strand single braids but virtually impossible on jacketed lines or double-braids without destroying the rope.

External abrasion without protection



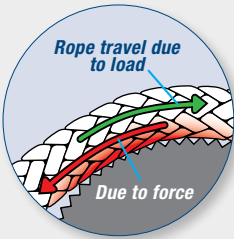
External abrasion with chafe protection



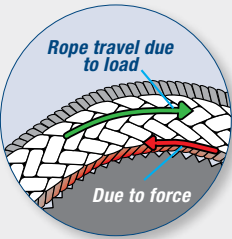
Internal abrasion without protection



Internal abrasion with chafe protection



WITHOUT CHAFE GEAR (HMPE ON METAL)
Friction caused by poorly maintained deck hardware surfaces causes both external abrasion to surface strands and abrasion to internal strands by creating relative movement between the fibers in the rope.



WITH CHAFE GEAR (HMPE ON HMPE)
External abrasion is primarily limited to the chafe gear itself, and the relative movement of internal and external fibers is greatly reduced or eliminated.

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. HMPE 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 real-world environments, protecting ropes from abrasion and cutting significantly increases service life.

DC GARD™

Maximum additional abrasion resistance DC Gard is a tightly braided cover construction of HMPE fiber that is spliced onto the strength member to protect it from wear and abrasion in specific areas. Designed for use in applications where frequent handling and use put a premium on rope protection and resistance to snagging. DC Gard provides maximum protection for working ropes.

SIZE	FITS ROPE DIAMETER		COVERS SPLICED ROPE DIAMETER	
	INCHES	MM	INCHES	MM
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

PRODUCT CODE: 706

FIBER: HMPE

COLOR: Gray

FEATURES AND BENEFITS:

- > Made with HMPE fiber
- > Light and flexible
- > Cut and abrasion resistant
- > Superior durability
- > Can be removed for rope inspection
- > Fully repairable in the field

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



CHAFE-PRO® FS

PRODUCT CODE: 970

FEATURES AND BENEFITS:

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

Chafe-Pro® FS provides critical protection for high-performance 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 or after the lines are deployed. 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.)

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



COR-GARD™

PRODUCT CODE: R6

FEATURES AND BENEFITS:

- > Economical
- > Durable

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.

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
12	4-3/4" – 5-1/4"	116 – 128 mm	14-1/4" – 16"	344 – 384 mm



Other chafe choices may be appropriate for your needs.
Please consult Samson or your Samson distributor.

NYLITE™ ASSEMBLIES

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 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 METRIC 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 mt	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 mt	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 mt	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 mt	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 mt	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 mt	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 mt	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 mt	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 mt	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.

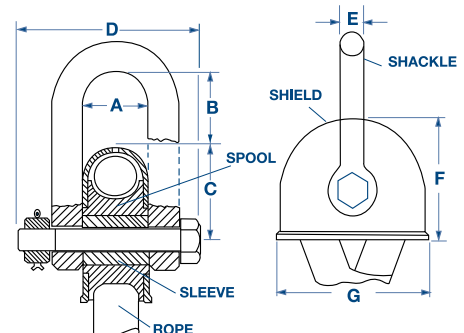
CLASS II ASSEMBLY *Nylite* Assembly with HP Aluminum Spool

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 METRIC 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 mt	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 mt	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 mt	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 mt	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 mt	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.

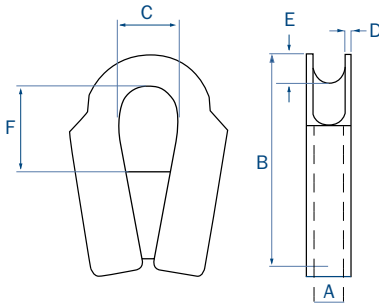
Size	Spool Inside Dia.	Spool Outside Dia.	Pin Diameter*	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES	G INCHES
-1	0.46"	1.50"	0.44"	0.88"	1.08"	1.11"	2.41"	0.38"	1.99"	2.34"
-2	0.58"	1.75"	0.56"	1.13"	1.21"	1.38"	3.11"	0.50"	2.38"	2.88"
-3	0.64"	2.25"	0.63"	1.38"	1.61"	1.77"	3.54"	0.56"	3.02"	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.



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. The Blue Line Thimble is powder coated.



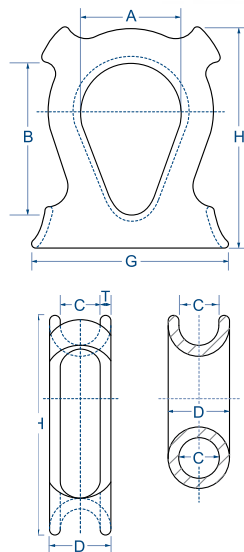
SIZE DESIGNATION Rope Diameter	SIZE DESIGNATION Rope Circumference	Thimble Wt. POUNDS	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES
3/16" – 3/8"	9/16" – 1-1/8"	0.80 lb	0.50"	3.3"	0.90"	0.16"	0.30"	0.90"
7/16" – 1/2"	1-1/4" – 1-1/2"	1.1 lb	0.60"	3.7"	1.1"	0.20"	0.40"	1.2"
9/16" – 5/8"	1-3/4" – 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"	0.25"	0.60"	2.4"
1" – 1-1/8"	3" – 3-1/2"	5.5 lb	1.4"	7.5"	2.4"	0.28"	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"	0.28"	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"	0.28"	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"

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.

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 3-3/4".



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

12-Strand CLASS II Rope Comparisons

SAMSON AVERAGE STRENGTH / POUNDS								SAMSON AVERAGE STRENGTH / KILOGRAMS							
Diameter INCHES	AmSteel®	AmSteel®-Blue	ML-12™	Quantum-X™	Saturn-12™	Tech-12™	Validator-12™	Diameter MILLIMETERS	AmSteel®	AmSteel®-Blue	ML-12™	Quantum-X™	Saturn-12™	Tech-12™	Validator-12™
3/16"	—	5,400	—	—	—	5,600	5,500	5 mm	—	2,400	—	—	—	2,500	2,500
1/4"	7,400	8,600	5,000	—	8,600	8,200	9,400	6 mm	3,400	3,900	2,300	—	3,900	3,700	4,300
5/16"	11,900	13,700	8,000	—	13,700	13,000	14,000	8 mm	5,400	6,200	3,600	—	6,200	5,900	6,400
3/8"	16,200	19,600	11,000	—	19,600	18,000	19,500	9 mm	7,300	8,900	5,000	—	8,900	8,200	8,800
7/16"	19,300	23,900	14,000	—	23,900	28,000	23,500	11 mm	8,800	10,800	6,400	—	10,800	12,700	10,700
1/2"	26,500	34,000	18,000	—	34,000	33,000	35,000	12 mm	12,000	15,400	8,200	—	15,400	15,000	15,900
9/16"	33,500	40,500	24,000	—	40,500	38,000	43,000	14 mm	15,200	18,400	10,900	—	18,400	17,200	19,500
5/8"	42,300	52,800	28,000	—	52,800	43,000	55,000	16 mm	19,200	24,000	12,700	—	24,000	19,500	24,900
3/4"	53,800	64,400	40,000	48,500	64,400	65,000	73,000	18 mm	24,400	29,200	18,100	22,000	29,200	29,500	33,100
13/16"	67,000	82,000	—	—	82,000	—	—	20 mm	30,400	37,200	—	—	37,200	—	—
7/8"	75,300	90,800	52,000	64,700	90,800	84,000	100,000	22 mm	34,200	41,200	23,600	29,300	41,200	38,100	45,400
1"	87,200	109,000	70,000	84,600	109,000	102,000	125,000	24 mm	39,600	49,400	31,800	38,400	49,400	46,300	56,700
1-1/8"	117,000	148,000	87,000	104,000	148,000	—	—	28 mm	53,100	67,100	39,500	47,200	67,100	—	—
1-1/4"	132,000	165,000	107,000	132,000	165,000	—	—	30 mm	59,900	74,800	48,500	59,900	74,800	—	—
1-5/16"	147,000	185,000	—	141,000	185,000	—	—	32 mm	66,700	84,000	—	64,000	84,000	—	—
1-1/2"	178,000	228,000	—	187,000	228,000	—	—	36 mm	80,700	103,000	—	84,800	103,000	—	—

WEIGHT PER 100 FEET / POUNDS								WEIGHT PER 100 METERS / KILOGRAMS							
Diameter INCHES	AmSteel®	AmSteel®-Blue	ML-12™	Quantum-X™	Saturn-12™	Tech-12™	Validator-12™	Diameter MILLIMETERS	AmSteel®	AmSteel®-Blue	ML-12™	Quantum-X™	Saturn-12™	Tech-12™	Validator-12™
3/16"	—	1.0	—	—	—	1.3	1.3	5 mm	—	1.5	—	—	—	1.9	1.9
1/4"	1.5	1.6	1.5	—	1.6	1.9	2.2	6 mm	2.2	2.4	2.2	—	2.4	2.8	3.3
5/16"	2.5	2.7	2.5	—	2.7	3.2	3.6	8 mm	3.7	4.0	3.7	—	4.0	4.8	5.4
3/8"	3.5	3.4	3.4	—	3.4	4.3	4.6	9 mm	5.2	5.1	5.1	—	5.1	6.4	6.8
7/16"	4.2	4.5	4.3	—	4.2	6.7	6.1	11 mm	6.3	6.7	6.4	—	6.2	10.0	9.1
1/2"	6.0	5.9	5.5	—	5.9	8.0	8.8	12 mm	8.9	8.8	8.2	—	8.8	11.9	13.1
9/16"	7.5	7.9	7.4	—	7.9	11.0	10.8	14 mm	11.1	11.8	11.0	—	11.8	16.4	16.1
5/8"	10.0	10.2	8.9	—	10.2	13.5	14.0	16 mm	14.9	15.2	13.2	—	15.2	20.1	20.8
3/4"	13.0	13.3	13.0	12.6	13.3	19.3	19.0	18 mm	19.3	19.8	19.3	18.7	19.8	28.7	28.3
13/16"	16.6	17.0	—	—	17.0	—	—	20 mm	24.7	25.3	—	—	25.3	—	—
7/8"	18.9	19.6	17.3	16.8	19.6	25.3	25.5	22 mm	28.1	29.2	25.7	25.0	29.2	37.6	37.9
1"	22.2	21.8	23.5	21.6	21.8	31.1	35.4	24 mm	33.0	32.4	35.0	32.1	32.4	46.3	52.7
1-1/8"	30.6	31.9	29.7	26.4	31.9	—	—	28 mm	45.5	47.5	44.2	39.3	47.5	—	—
1-1/4"	34.9	36.2	37.1	32.7	36.2	—	—	30 mm	51.9	53.9	55.2	48.7	53.9	—	—
1-5/16"	39.6	41.8	—	34.2	41.8	—	—	32 mm	58.9	62.2	—	50.9	62.2	—	—
1-1/2"	48.8	51.7	—	45.5	51.7	—	—	36 mm	72.6	76.9	—	67.7	76.9	—	—

ELASTIC ELONGATION							
EE AT PERCENT AVERAGE BREAK	AmSteel®	AmSteel®-Blue	ML-12™	Quantum-X™	Saturn-12™	Tech-12™	Validator-12™
10%	0.46%	0.46%	0.50%	0.65%	0.46%	0.63%	0.49%
20%	0.70%	0.70%	1.00%	0.75%	0.70%	0.96%	0.78%
30%	0.96%	0.96%	1.40%	0.90%	0.96%	1.20%	0.98%

12-Strand CLASS I Rope Comparisons

SAMSON AVERAGE STRENGTH / POUNDS						SAMSON AVERAGE STRENGTH / KILOGRAMS					
Diameter INCHES	Dura-Plex™	PTS-12 Nylon™	Tenex™	Tenex-TEC™	Quik-Splice™	Diameter MILLIMETERS	Dura-Plex™	PTS-12 Nylon™	Tenex™	Tenex-TEC™	Quik-Splice™
3/16"	—	1,800	1,800	—	—	5 mm	—	820	820	—	—
1/4"	1,800	3,000	3,200	3,400	1,400	6 mm	820	1,400	1,500	1,500	640
5/16"	2,600	4,500	4,700	4,700	2,500	8 mm	1,200	2,000	2,100	2,100	1,100
3/8"	3,900	5,500	5,800	6,100	3,500	9 mm	1,800	2,500	2,600	2,800	1,600
7/16"	5,000	7,000	9,000	9,500	4,600	11 mm	2,300	3,200	4,100	4,300	2,100
1/2"	6,700	10,800	11,800	13,100	6,700	12 mm	3,000	4,900	5,400	5,900	3,000
9/16"	9,000	14,000	15,000	—	7,500	14 mm	4,100	6,400	6,800	—	3,400
5/8"	11,600	16,000	17,100	18,800	10,900	16 mm	5,300	7,300	7,800	8,500	4,900
3/4"	14,500	21,000	22,400	24,800	13,000	18 mm	6,600	9,500	10,200	11,200	5,900
13/16"	—	—	—	—	—	20 mm	—	—	—	—	—
7/8"	21,200	—	32,600	34,200	16,000	22 mm	9,600	—	14,800	15,500	7,300
1"	25,000	—	42,700	44,500	23,100	24 mm	11,300	—	19,400	20,200	10,500
1-1/8"	—	47,000	50,000	—	28,600	28 mm	—	21,300	22,700	—	13,000
1-1/4"	—	—	57,200	62,000	31,300	30 mm	—	—	25,900	28,100	14,200
1-5/16"	—	—	69,500	—	—	32 mm	—	—	31,500	—	—
1-1/2"	—	—	81,700	—	—	36 mm	—	—	37,100	—	—

WEIGHT PER 100 FEET / POUNDS						WEIGHT PER 100 METERS / KILOGRAMS					
Diameter INCHES	Dura-Plex™	PTS-12 Nylon™	Tenex™	Tenex-TEC™	Quik-Splice™	Diameter MILLIMETERS	Dura-Plex™	PTS-12 Nylon™	Tenex™	Tenex-TEC™	Quik-Splice™
3/16"	—	1.2	1.3	—	—	5 mm	—	1.8	1.9	—	—
1/4"	1.5	2.0	2.1	2.2	1.1	6 mm	2.2	3.0	3.1	3.3	1.6
5/16"	2.2	3.0	3.2	3.2	1.7	8 mm	3.3	4.5	4.8	4.8	2.5
3/8"	3.4	4.0	3.9	4.3	2.7	9 mm	5.1	6.0	5.8	6.4	4.0
7/16"	4.6	5.6	6.3	6.5	3.5	11 mm	6.8	8.3	9.4	9.7	5.2
1/2"	5.8	7.4	8.0	9.2	4.9	12 mm	8.6	11.0	11.9	13.7	7.3
9/16"	8.3	10.4	10.0	—	6.0	14 mm	12.4	15.5	14.9	—	8.9
5/8"	11.0	12.1	12.0	14.8	8.0	16 mm	16.4	18.0	17.9	22.0	11.9
3/4"	15.0	16.1	17.2	17.7	9.9	18 mm	22.3	24.0	25.6	26.3	14.7
13/16"	—	—	—	—	—	20 mm	—	—	—	—	—
7/8"	21.5	—	25.8	26.7	15.2	22 mm	32.0	—	38.4	39.7	22.6
1"	24.2	—	34.5	34.7	21.0	24 mm	36.0	—	51.3	51.6	31.2
1-1/8"	—	30.0	43.0	—	24.5	28 mm	—	44.6	64.0	—	36.5
1-1/4"	—	—	52.2	55.0	29.0	30 mm	—	—	77.7	81.8	43.2
1-5/16"	—	—	59.7	—	—	32 mm	—	—	88.8	—	—
1-1/2"	—	—	71.5	—	—	36 mm	—	—	106.0	—	—

ELASTIC ELONGATION					
EE AT PERCENT AVERAGE BREAK	Dura-Plex™	PTS-12 Nylon™	Tenex™	Tenex-TEC™	Quik-Splice™
10%	1.60%	4.70%	1.40%	1.40%	1.10%
20%	2.70%	6.90%	2.30%	2.30%	1.90%
30%	3.80%	7.70%	3.00%	3.00%	2.60%

Double Braid CLASS II Rope Comparisons

SAMSON AVERAGE STRENGTH / POUNDS					SAMSON AVERAGE STRENGTH / KILOGRAMS				
Diameter INCHES	AmSteel® II	AmSteel® II Plus	Turbo-RC™	Ultra-Tech™	Diameter MILLIMETERS	AmSteel® II	AmSteel® II Plus	Turbo-RC™	Ultra-Tech™
3/16"	—	—	—	2,300	5 mm	—	—	—	1,000
1/4"	4,500	5,600	—	4,800	6 mm	2,000	2,500	—	2,200
5/16"	7,500	9,300	—	7,800	8 mm	3,400	4,200	—	3,500
3/8"	9,800	12,200	—	10,000	9 mm	4,400	5,500	—	4,500
7/16"	11,700	14,600	—	14,800	11 mm	5,300	6,600	—	6,700
1/2"	15,500	19,400	—	20,000	12 mm	7,000	8,800	—	9,100
9/16"	22,000	27,500	—	—	14 mm	10,000	12,500	—	—
5/8"	27,000	33,800	—	42,000	16 mm	12,200	15,300	—	19,100
3/4"	35,000	43,800	59,000	51,000	18 mm	15,900	19,900	26,800	23,100
13/16"	40,000	50,000	—	—	20 mm	18,100	22,700	—	—
7/8"	50,000	62,500	82,000	68,000	22 mm	22,700	28,400	37,200	30,800
1"	57,000	71,300	97,000	—	24 mm	25,900	32,300	44,000	—
1-1/8"	72,900	90,000	125,000	—	28 mm	33,100	40,800	56,700	—
1-1/4"	81,000	101,000	150,000	—	30 mm	36,700	45,800	68,000	—
1-5/16"	—	—	165,000	—	32 mm	—	—	74,800	—
1-1/2"	—	—	210,000	—	36 mm	—	—	95,300	—

WEIGHT PER 100 FEET / POUNDS					WEIGHT PER 100 METERS / KILOGRAMS				
Diameter INCHES	AmSteel® II	AmSteel® II Plus	Turbo-RC™	Ultra-Tech™	Diameter MILLIMETERS	AmSteel® II	AmSteel® II Plus	Turbo-RC™	Ultra-Tech™
3/16"	—	—	—	1.0	5 mm	—	—	—	1.5
1/4"	2.2	2.2	—	2.1	6 mm	3.3	3.3	—	3.1
5/16"	3.5	3.5	—	4.0	8 mm	5.2	5.2	—	6.0
3/8"	4.1	4.1	—	4.6	9 mm	6.1	6.1	—	6.8
7/16"	6.1	6.1	—	6.4	11 mm	9.1	9.1	—	9.5
1/2"	8.6	8.6	—	9.8	12 mm	12.8	12.8	—	14.6
9/16"	10.0	10.0	—	—	14 mm	14.9	14.9	—	—
5/8"	12.6	12.6	—	14.5	16 mm	18.7	18.7	—	21.6
3/4"	16.0	16.0	14.0	19.7	18 mm	23.8	23.8	20.8	29.3
13/16"	20.3	20.3	—	—	20 mm	30.2	30.2	—	—
7/8"	24.8	24.8	19.9	27.5	22 mm	36.9	36.9	29.6	40.9
1"	29.7	29.7	25.5	—	24 mm	44.2	44.2	37.9	—
1-1/8"	37.0	37.0	32.1	—	28 mm	55.1	55.1	47.8	—
1-1/4"	42.6	42.6	40.0	—	30 mm	63.4	63.4	59.5	—
1-5/16"	—	—	43.3	—	32 mm	—	—	64.4	—
1-1/2"	—	—	59.5	—	36 mm	—	—	88.5	—

ELASTIC ELONGATION				
EE AT PERCENT AVERAGE BREAK	AmSteel® II	AmSteel® II Plus	Turbo-RC™	Ultra-Tech™
10%	0.50%	0.50%	0.30%	0.63%
20%	0.67%	0.67%	0.50%	0.97%
30%	0.96%	0.96%	0.80%	1.24%

Double Braid CLASS I Rope Comparisons

SAMSON AVERAGE STRENGTH / POUNDS				SAMSON AVERAGE STRENGTH / KILOGRAMS			
Diameter INCHES	Nystron™	Stable Braid™	Super Strong™	Diameter MILLIMETERS	Nystron™	Stable Braid™	Super Strong™
3/16"	—	—	—	5 mm	—	—	—
1/4"	—	2,300	2,200	6 mm	—	1,000	1,000
5/16"	—	3,600	3,400	8 mm	—	1,600	1,500
3/8"	5,600	5,600	4,700	9 mm	2,500	2,500	2,100
7/16"	7,400	7,700	6,600	11 mm	3,400	3,500	3,000
1/2"	10,500	10,400	8,600	12 mm	4,800	4,700	3,900
9/16"	13,200	13,300	11,900	14 mm	6,000	6,000	5,400
5/8"	16,300	16,300	15,200	16 mm	7,400	7,400	6,900
3/4"	23,000	20,400	18,800	18 mm	10,400	9,300	8,500
13/16"	—	—	—	20 mm	—	—	—
7/8"	27,000	29,900	29,000	22 mm	12,200	13,600	13,200
1"	37,000	39,200	36,000	24 mm	16,800	17,800	16,300
1-1/8"	49,800	48,200	45,000	28 mm	22,600	21,900	20,400
1-1/4"	59,100	57,300	52,000	30 mm	26,800	26,000	23,600
1-5/16"	—	64,700	59,300	32 mm	—	29,300	26,900
1-1/2"	86,500	75,100	75,600	36 mm	39,200	34,100	34,300

WEIGHT PER 100 FEET / POUNDS				WEIGHT PER 100 METERS / KILOGRAMS			
Diameter INCHES	Nystron™	Stable Braid™	Super Strong™	Diameter MILLIMETERS	Nystron™	Stable Braid™	Super Strong™
3/16"	—	—	—	5 mm	—	—	—
1/4"	—	2.1	1.8	6 mm	—	3.1	2.7
5/16"	—	3.2	2.6	8 mm	—	4.8	3.9
3/8"	4.4	4.5	3.8	9 mm	6.5	6.7	5.7
7/16"	5.7	6.1	5.1	11 mm	8.5	9.1	7.6
1/2"	7.7	8.2	6.6	12 mm	11.5	12.2	9.8
9/16"	10.0	11.0	9.3	14 mm	14.9	16.4	13.8
5/8"	12.6	14.0	12.0	16 mm	18.7	20.8	17.9
3/4"	17.3	18.0	15.0	18 mm	25.7	26.8	22.3
13/16"	—	—	—	20 mm	—	—	—
7/8"	19.0	27.1	22.0	22 mm	28.3	40.3	32.7
1"	34.0	34.0	26.0	24 mm	50.6	50.6	38.7
1-1/8"	39.2	45.3	36.0	28 mm	58.3	67.4	53.6
1-1/4"	46.9	53.9	41.0	30 mm	69.8	80.2	61.0
1-5/16"	—	60.8	43.5	32 mm	—	90.5	64.7
1-1/2"	71.2	73.3	60.0	36 mm	106	109	89.3

ELASTIC ELONGATION			
EE AT PERCENT AVERAGE BREAK	Nystron™	Stable Braid™	Super Strong™
10%	2.40%	1.10%	3.00%
20%	4.50%	1.70%	5.30%
30%	5.90%	2.70%	6.70%

3-Strand CLASS I Rope Comparisons

SAMSON AVERAGE STRENGTH / POUNDS						SAMSON AVERAGE STRENGTH / KILOGRAMS					
Diameter INCHES	Pro-Master™	Pro-Set-3™	SSR-100-3™	SSR-1200-3™	Ultra-Blue-3™	Diameter MILLIMETERS	Pro-Master™	Pro-Set-3™	SSR-100-3™	SSR-1200-3™	Ultra-Blue-3™
3/16"	—	1,200	—	—	—	5 mm	—	540	—	—	—
1/4"	—	1,600	1,800	—	1,700	6 mm	—	730	820	—	770
5/16"	—	2,600	2,800	—	2,600	8 mm	—	1,200	1,300	—	1,200
3/8"	3,200	3,600	4,100	—	3,700	9 mm	1,500	1,600	1,900	—	1,700
7/16"	—	4,800	5,100	—	4,600	11 mm	—	2,200	2,300	—	2,100
1/2"	5,700	6,300	6,900	—	6,100	12 mm	2,600	2,900	3,100	—	2,800
9/16"	—	7,900	9,100	—	8,400	14 mm	—	3,600	4,100	—	3,800
5/8"	7,700	10,000	10,000	—	10,600	16 mm	3,500	4,500	4,500	—	4,800
3/4"	10,000	13,500	—	14,800	12,000	18 mm	4,500	6,100	—	6,700	5,400
13/16"	—	15,300	—	17,600	—	20 mm	—	6,900	—	8,000	—
7/8"	14,500	19,000	—	20,900	18,000	22 mm	6,600	8,600	—	9,500	8,200
1"	17,500	25,000	—	25,400	22,600	24 mm	7,900	11,300	—	11,500	10,300
1-1/8"	—	32,000	—	32,800	26,600	28 mm	—	14,500	—	14,900	12,100
1-1/4"	—	37,500	—	39,000	33,000	30 mm	—	17,000	—	17,700	15,000
1-5/16"	—	41,500	—	43,000	37,000	32 mm	—	18,800	—	19,500	16,800
1-1/2"	—	52,000	—	54,000	42,000	36 mm	—	23,600	—	24,500	19,100

WEIGHT PER 100 FEET / POUNDS						WEIGHT PER 100 METERS/ KILOGRAMS					
Diameter INCHES	Pro-Master™	Pro-Set-3™	SSR-100-3™	SSR-1200-3™	Ultra-Blue-3™	Diameter MILLIMETERS	Pro-Master™	Pro-Set-3™	SSR-100-3™	SSR-1200-3™	Ultra-Blue-3™
3/16"	—	1.0	—	—	—	5 mm	—	1.5	—	—	—
1/4"	—	1.5	1.4	—	1.1	6 mm	—	2.2	2.1	—	1.6
5/16"	—	2.5	2.4	—	2.1	8 mm	—	3.7	3.6	—	3.1
3/8"	3.7	3.5	3.4	—	2.6	9 mm	5.5	5.2	5.1	—	3.9
7/16"	—	5.0	4.9	—	3.1	11 mm	—	7.4	7.3	—	4.6
1/2"	6.5	6.2	6.0	—	4.5	12 mm	9.7	9.2	8.9	—	6.7
9/16"	—	8.1	8.5	—	6.3	14 mm	—	12.1	12.6	—	9.4
5/8"	9.6	10.5	9.5	—	8.0	16 mm	14.3	15.6	14.1	—	11.9
3/4"	13.9	14.5	—	14.4	10.2	18 mm	20.7	21.6	—	21.4	15.2
13/16"	—	17.0	—	17.3	—	20 mm	—	25.3	—	25.7	—
7/8"	18.0	20.0	—	20.6	15.8	22 mm	26.8	29.8	—	30.7	23.5
1"	22.0	26.0	—	25.6	18.6	24 mm	32.7	38.7	—	38.1	27.7
1-1/8"	—	34.0	—	33.0	24.7	28 mm	—	50.6	—	49.1	36.8
1-1/4"	—	40.0	—	39.4	28.9	30 mm	—	59.5	—	58.6	43.0
1-5/16"	—	45.0	—	43.3	32.5	32 mm	—	67.0	—	64.4	48.4
1-1/2"	—	55.0	—	56.2	41.2	36 mm	—	81.8	—	83.6	61.3

ELASTIC ELONGATION					
EE AT PERCENT AVERAGE BREAK	Pro-Master™	Pro-Set-3™	SSR-100-3™	SSR-1200-3™	Ultra-Blue-3™
10%	2.00%	5.50%	1.60%	1.50%	2.00%
20%	3.20%	10.00%	3.50%	3.20%	4.80%
30%	3.90%	12.10%	4.70%	4.00%	6.80%

SPLICING TOOLS & INSTRUCTIONS

Samson provides the most comprehensive splice instructions in the industry

Fids are utilized to perform the appropriate splice procedure based on rope 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.

FIDS & PUSHERS

FIDS & 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).



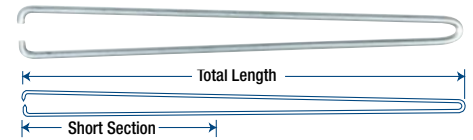
FID PROD. CODE	FID SIZE ROPE DIAMETER INCHES	TOTAL FID LENGTH INCHES	SHORT FID SECTION INCHES	PUSHER PROD. CODE
901	1/4 in.	5-1/2 in.	2-1/16 in.	913 (Small)
901	5/16 in.	6-3/4 in.	2-1/2 in.	913 (Small)
901	3/8 in.	7-3/4 in.	2-7/8 in.	913 (Small)
901	7/16 in.	9-1/2 in.	3-9/16 in.	913 (Small)
901	1/2 in.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

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.



FID PROD. CODE	FID SIZE ROPE CIRCUMFERENCE INCHES	TOTAL FID LENGTH INCHES	SHORT SECTION INCHES
905	3 in.	10-1/2 in.	2-5/8 in.
905	3-1/2 in.	12-1/4 in.	3 in.
905	3-3/4 in.	13-1/4 in.	3-1/4 in.
905	4 in.	14 in.	3-1/2 in.
905	4-1/2 in.	16 in.	4 in.
905	5 in.	17-1/2 in.	4-1/2 in.
905	5-1/2 in.	19 in.	4-3/4 in.
905	6 in.	21 in.	5-1/4 in.

LARGE ALUMINUM FID KIT PRODUCT CODE: 999-0075

Six aluminum tubular fids (size range 1/2" through 1" diameter).

PRODUCT CODE	KIT SIZE	FID SIZE ROPE DIAMETER
999-0075	Set of 6	1/2", 9/16", 5/8", 3/4", 7/8", 1"



SELMA FID KIT PRODUCT CODE: 903

Five selma fids (size range 1/8" through 1-1/8" diameter).

PRODUCT CODE	KIT SIZE	INCLUDES FID #'S	ROPE DIAMETER
903	Set of 5	4, 5.5, 7.5, 10, 13	1/8" - 9/16" (single braid) up to 1-1/8" diameter (double braid or 3-strand)



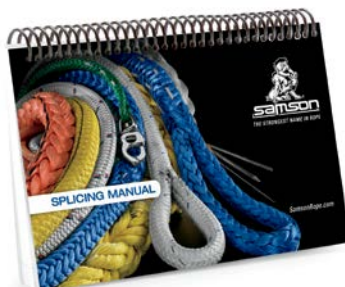
- > Made from highly polished stainless steel
- > Patented worldwide
- > Available in sets only
- > Used to splice single braid lines from 1/8" to 9/16" or double braid and 3-strand rope up to 1-1/8" diameter

SPLICING MANUAL & KIT

Samson Splicing Manual

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

PRODUCT CODE: 996-0063



Splicing Kit

This kit comes with a small pusher and 5 aluminum tubular fids (size range 1/4" through 1/2" diameter).

PRODUCT CODE: 999-0070





Samson Utility Winch Line Manual

This comprehensive manual includes product information, technical usage guidelines, splicing instructions, and retirement criteria for products commonly used in utility winch applications.

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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THE STRONGEST NAME IN ROPE

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