



Continental
Western
Corporation

ROPE AND TWINE



OAKLAND • LOS ANGELES • SEATTLE • PORTLAND
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Dear Customer,

For over 75 years, Continental Western Corporation (CWC) has been proud to provide our distributors with quality products, timely delivery and outstanding customer service. In order to better serve your needs and become your one stop supplier, CWC is happy to offer you our Rope and Twine Catalog.

CWC has carefully selected the products in this catalog to ensure the highest quality and value possible. Every item has been carefully selected for its performance and durability. CWC strives to provide the highest level of quality goods in the industry.

CWC takes pride in the accurate and timely deliveries of our orders. We maintain large inventory levels in all of our seven warehouse locations to give us the ability to ship same day or next day after we receive your order.

CWC has a highly trained and knowledgeable sales staff to assist you with your rope and twine needs.

CWC sincerely appreciates the opportunity to serve you. The next time you need rope and twine, please allow CWC to be your vendor of choice. We will be happy to quote you on the products in this catalog, as well as any other product requirements you may have.



Frederick Oshay
Chief Executive



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Continental Western Corporation

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Rope Selection Guide

There are two types of fibers used in the construction of ropes and twines, natural and synthetic. The most common natural fibers used are Manila, Sisal, Jute, and Cotton, while synthetic fibers such as Polypropylene, Polyethylene, Nylon, and Polyester have become the most popular in today's market.



MANILA rope was once the preferred choice in ropes before the synthetic fibers were developed. Manila ropes still maintain some advantages to synthetic fibers. It is not affected by heat, and has an excellent resistance to the sun's UV (Ultraviolet) rays.



SISAL fibers come from the Agave and Sisalana plants grown in some tropical countries. Sisal has many of the characteristics of manila, but offers only 80% of its strength. It is more economical than manila, and makes a good choice as a general purpose rope. It is commonly used as a tying twine.



JUTE is mainly used as a tying twine. It knots very well. Due to its short fibers, it does not have much strength.



COTTON is natural fiber, typically white in color. It is a soft fiber, which makes it nice to handle. It also knots very well.



POLYPROPYLENE & POLYETHYLENE make a flexible and lightweight rope. They are rot proof, resist oil, water, gasoline, and most chemicals. They are the only rope fibers that float. Available twisted or braided, they are a perfect economical choice as a general purpose rope.



POLYESTER is very strong and provides excellent abrasion resistance. Polyester stretches less than nylon, so it does not have the elasticity of shock absorbing qualities that nylon does. It has good resistance to UV rays, and resists rot, oil, gasoline, and most chemicals. It is very popular as a marine or industrial rope where stretch is not desired.



NYLON is known for its elasticity and tremendous shock absorbing qualities. It has good abrasion resistance, is rot proof, resists oil, gasoline, and most chemicals. It has good resistance to UV rays. Nylon will last 4-5 times longer than natural fibers.

Rope Selection Guide

FIBER TYPE	NYLON	POLYESTER	POLYPROPYLENE	POLYETHYLENE	MANILA	COTTON
STRENGTH	1	2	3	4	5	6
WET STRENGTH VS. DRY STRENGTH	85%	100%	100%	100%	115%	115%
SHOCK LOAD ABILITY	1	3	2	4	5	6
FLOATS OR SINKS IN WATER	SINKS	SINKS	FLOATS	FLOATS	SINKS	SINKS
ELONGATION AT BREAK	20-34%	15%-20%	15%-20%	10%-15%	10%-15%	5%-10%
WATER ABSORPTION	6%	ZERO	ZERO	ZERO	100%	100%
MELTING POINT	480° F	500° F	330° F	275° F	DOES NOT MELT	DOES NOT MELT
					CHARS AT 350° F	CHARS AT 350° F
ABRASION RESISTANCE	2	1	4	5	3	3
DEGRADATION: RESISTANCE TO SUNLIGHT	GOOD	EXCELLENT	POOR	FAIR	GOOD	GOOD
DEGRADATION: RESISTANCE TO ROT	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT	POOR	POOR
DEGRADATION: RESISTANCE TO ACIDS	POOR	GOOD	GOOD	GOOD	POOR	POOR
DEGRADATION: RESISTANCE TO ALKALIS	GOOD	POOR	GOOD	GOOD	POOR	POOR
DEGRADATION: RESISTANCE TO OIL AND GAS	GOOD	GOOD	GOOD	GOOD	POOR	POOR
ELECTRICAL CONDUCTIVITY RESISTANCE	POOR	GOOD	GOOD	GOOD	POOR	POOR
FLEXING ENDURANCE	1	2	3	6	4	5
SPECIFIC GRAVITY	1.14	1.38	.90	.95	1.38	1.54
STORAGE REQUIREMENTS	WET OR DRY	WET OR DRY	WET OR DRY	WET OR DRY	DRY ONLY	DRY ONLY



Polypropylene Rope - Monofilament

This rope will float, has excellent resistance to most common chemicals. It is also resistant to rot, mildew and deterioration. It has good abrasion and UV resistance, good strength, and moderate stretch. Additional colors and combinations available.

Yellow Item No	Black Item No	2 Yellow/1 Blk Item No	Diameter	Length	Approx Wt
300010	301050		3/16"	600'	4 lbs
300015	301055	301006	3/16"	1,200'	8 lbs
300035	301060	301010	1/4"	600'	7 lbs
300040	301065	301015	1/4"	1,200'	14 lbs
	301067		1/4"	2,400'	28 lbs
300055	301075	301020	5/16"	600'	11 lbs
300060	301077	301021	5/16"	1,200'	22 lbs
300075	301085	301023	3/8"	600'	16 lbs
300080			3/8"	1,200'	32 lbs
300110	301089		7/16"	600'	21 lbs
300115			7/16"	1,200'	42 lbs
300120	301090		1/2"	600'	28 lbs
300125	301092		1/2"	1,200'	56 lbs
300130			9/16"	600'	35 lbs
300140	301095		5/8"	600'	43 lbs
300145			5/8"	1,200'	86 lbs
300150	301100		3/4"	600'	62 lbs
300155	301715		3/4"	1,200'	124 lbs
300160	301103		7/8"	600'	85 lbs
300200	301105	301038	1"	600'	108 lbs
300205			1"	1,200'	216 lbs
300210		301039	1-1/8"	600'	136 lbs
300220	301118	301040	1-1/4"	600'	165 lbs
300236		301043	1-1/2"	600'	236 lbs
300242			1-5/8"	600'	276 lbs
300247		301044	1-3/4"	600'	318 lbs
300251		301046	2"	600'	414 lbs
		301047	2"	600'	414 lbs
300253			2-1/4"	600'	528 lbs
300261		301045	2-1/2"	600'	642 lbs
300271		301048	3"	600'	918 lbs



Polypropylene Rope - Film

This rope has a balanced construction, medium lay, good strength, and moderate stretch. It is lightweight, buoyant, and has excellent hand and knot ability.

Item No	Diameter	Length	Approx Wt
400007	3/16"	1,200'	8 lbs
400015	1/4"	600'	7 lbs
400020	1/4"	1,200'	14 lbs
400035	5/16"	600'	11 lbs
400040	5/16"	1,200'	22 lbs
400045	3/8"	600'	16 lbs
400050	3/8"	1,200'	32 lbs
400055	7/16"	600'	23 lbs
400070	1/2"	600'	28 lbs
400075	1/2"	1,200'	56 lbs
400100	5/8"	600'	43 lbs
400105	5/8"	1,200'	86 lbs
400110	3/4"	600'	64 lbs
400120	7/8"	600'	90 lbs
400130	1"	600'	108 lbs
400140	1-1/4"	600'	165 lbs





General Purpose



Polypropylene Rope - Blue and White

Durable, rugged polypropylene rope, floats. It is made from a color-safe, strong polypropylene that allows minimal stretch and lifetime color. Will not rot or deteriorate. Other colors are available.

CWC Blue Item No	CWC White Item No	Diameter	Length	Approx Wt
301200	301146	1/4"	600'	7 lbs
	301147	1/4"	1,200'	14 lbs
301205	301144	5/16"	600'	11 lbs
	301143	5/16"	1,200'	22 lbs
301210	301148	3/8"	600'	16 lbs
301211	301149	3/8"	1,200'	32 lbs
301213		7/16"	600'	21 lbs
301215	301150	1/2"	600'	28 lbs
	301151	1/2"	1,200'	56 lbs
301220		5/8"	600'	43 lbs
301225		3/4"	600'	62 lbs
301230		1"	600'	108 lbs
301232		1-1/4"	600'	165 lbs



Polypropylene Rope - Green and Orange

Durable, rugged polypropylene rope, floats. It is made from a color-safe, strong polypropylene that allows minimal stretch and lifetime color. Will not rot or deteriorate. Other colors are available.

CWC Green Item No	CWC Orange Item No	Diameter	Length	Approx Wt
301326	301309	1/4"	600'	7 lbs
301131	301310	3/8"	600'	16 lbs
	301315	3/8"	1,200'	32 lbs
301134		1/2"	600'	28 lbs
	301316	3/4"	600'	62 lbs



MANILLO™ Polypropylene On Reels

A specially formulated twisted polypropylene rope that is much stronger, has half the weight, and costs less per foot than manila rope. It is resistant to rot and abrasion and is not damaged by petroleum products, mildew, marine growth or many chemicals.

Item No	Diameter	Length	Approx Wt
341005	1/4"	600'	7 lbs
341010	1/4"	1,200'	14 lbs
341020	5/16"	600'	11 lbs
341030	3/8"	600'	16 lbs
341050	1/2"	600'	28 lbs
341060	5/8"	600'	43 lbs
341070	3/4"	600'	62 lbs
341105	1"	600'	108 lbs



Polypropylene Truck Rope - Black/Orange

Truck rope conforms to California State Highway Patrol requirements. Orange surface marker in each strand.

Item No	Diameter	Length	Minimum Tensile	Approx Wt
305005	3/8"	600'	2,190 lbs	16 lbs
305010	3/8"	1,200'	2,190 lbs	32 lbs
305015	7/16"	600'	2,840 lbs	21 lbs
305020	7/16"	1,200'	2,840 lbs	42 lbs
305025	1/2"	600'	3,400 lbs	28 lbs
305030	1/2"	1,200'	3,400 lbs	56 lbs
305035	5/8"	600'	5,020 lbs	43 lbs
305040	3/4"	600'	6,860 lbs	62 lbs
305045	1"	600'	11,540 lbs	108 lbs



POLY/DAC™ Truck Rope - White/Orange

Super high strength poly floating line. Made from high tenacity, coextrusion polyolefin yarn. Truck rope conforms to California State Highway Patrol requirements. Orange surface marker in each strand.

Item No	Diameter	Length	Minimum Tensile	Approx Wt
326005	3/8"	600'	2,430 lbs	22 lbs
326010	3/8"	1,200'	2,430 lbs	44 lbs
326015	7/16"	600'	3,150 lbs	29 lbs
326020	7/16"	1,200'	3,150 lbs	58 lbs
326025	1/2"	600'	3,960 lbs	37 lbs
326030	1/2"	1,200'	3,960 lbs	74 lbs
326035	5/8"	600'	5,490 lbs	57 lbs
326037	5/8"	1,200'	5,490 lbs	114 lbs
326040	3/4"	600'	7,560 lbs	81 lbs
326050	1"	600'	11,860 lbs	130 lbs



BLUE STEEL™ Poly Truck Rope - Blue/Orange

Balanced 3-stage construction, medium lay, good abrasion and UV resistant. Truck rope conforms to California State Highway Patrol requirements. Orange surface marker in each strand.

Item No	Diameter	Length	Minimum Tensile	Approx Wt
405405	3/8"	600'	3,700 lbs	15 lbs
405410	7/16"	600'	4,600 lbs	18 lbs
405415	1/2"	600'	6,500 lbs	26 lbs
405420	5/8"	600'	10,900 lbs	46 lbs
405425	3/4"	600'	13,900 lbs	59 lbs
405430	1"	600'	23,000 lbs	104 lbs





Combo Plus POLY/DAC™ Blended Polyester Rope

Poly/Dac™ Item No	PolyPlus™ Item No	Diameter	Length	Approx Wt
325005	755005	1/4"	600'	10 lbs
325010	755010	1/4"	1,200'	20 lbs
325015	755015	5/16"	600'	15 lbs
325020	755020	5/16"	1,200'	30 lbs
325025	755026	3/8"	600'	22 lbs
325030	755030	3/8"	1,200'	44 lbs
325040	755035	7/16"	600'	29 lbs
325041	755040	7/16"	1,200'	58 lbs
325045	755045	1/2"	600'	37 lbs
325050	755050	1/2"	1,200'	74 lbs
325060		9/16"	600'	47 lbs
325065	755065	5/8"	600'	57 lbs
325070	755070	5/8"	1,200'	114 lbs
325100	755100	3/4"	600'	81 lbs
325105	755105	3/4"	1,200'	162 lbs
325110	755110	7/8"	600'	108 lbs
	755115	7/8"	1,200'	216 lbs
325120	755120	1"	600'	130 lbs
325122	755125	1"	1,200'	260 lbs
325130	755130	1-1/8"	600'	163 lbs
325140	755140	1-1/4"	600'	200 lbs
325147	755150	1-1/2"	600'	282 lbs
	755160	1-5/8"	600'	330 lbs
325167	755165	1-3/4"	600'	372 lbs
325173	755200	2"	600'	486 lbs
325182	755205	2-1/4"	600'	606 lbs
325187	755210	2-1/2"	600'	744 lbs
325191		2-5/8"	600'	840 lbs
325197		3"	600'	1,074 lbs



ICE BLUE™ Combo

Ideal for very high strength mooring lines, head ropes, net ropes or any application where you need floatability and durability of a combination rope. Made from high strength BLUE STEEL™ and polyester fibers.

Item No	Construction Type	Reel/Coil	Diameter	Length	Minimum Tensile	Approx Wt
403304	3 Strand	Reel	5/8"	600'	9,800 lbs	57 lbs
403305	3 Strand	Reel	3/4"	600'	12,700 lbs	76 lbs
403310	3 Strand	Reel	1"	600'	21,300 lbs	132 lbs
403314	3 Strand	Reel	1-1/8"	600'	28,000 lbs	173 lbs
403316	3 Strand	Coil	1-1/4"	600'	34,200 lbs	200 lbs
403320	3 Strand	Coil	1-1/2"	600'	47,500 lbs	303 lbs
403323	3 Strand	Reel	1-3/4"	600'	66,300 lbs	423 lbs
403331	3 Strand	Reel	2"	600'	82,900 lbs	532 lbs
403335	3 Strand	Reel	2-1/4"	600'	112,500 lbs	722 lbs
403340	3 Strand	Coil	2-1/2"	600'	126,000 lbs	808 lbs
403341	3 Strand	Reel	2-1/2"	600'	126,000 lbs	808 lbs
403350	3 Strand	Coil	3"	600'	178,400 lbs	1,145 lbs
403420	8 Braid	Coil	1-1/2"	600'	55,500 lbs	300 lbs
403425	8 Braid	Coil	1-3/4"	600'	79,600 lbs	423 lbs
403430	8 Braid	Coil	2"	600'	92,200 lbs	532 lbs
403437	8 Braid	Reel	2-1/4"	600'	123,600 lbs	723 lbs
403440	8 Braid	Coil	2-1/2"	600'	140,300 lbs	808 lbs
403445	8 Braid	Coil	2-5/8"	600'	157,000 lbs	910 lbs
403450	8 Braid	Coil	3"	600'	196,900 lbs	1,144 lbs
403452	8 Braid	Coil	3-1/4"	600'	238,830 lbs	1,408 lbs



Nylon Rope - 3 Strand

High elongation and strength, good energy absorption, good abrasion resistant, excellent resistance to UV, rot, mildew, oil, grease, gasoline and many chemicals. White is the standard color however other sizes and colors are available.

Standard Item No	Gulf Spec* Item No	Black Nylon Item No	Diameter	Length	Approx Wt
315005	409005		3/16"	600'	7 lbs
315010	409010		3/16"	1,200'	14 lbs
315015	409015	316203	1/4"	600'	10 lbs
315020	409020	316430	1/4"	1,200'	20 lbs
315025	409025	316204	5/16"	600'	16 lbs
315030	409030		5/16"	1,200'	32 lbs
315035	409035	316205	3/8"	600'	22 lbs
315040	409040		3/8"	1,200'	44 lbs
315045	409045		7/16"	600'	31 lbs
315055	409050	316215	1/2"	600'	40 lbs
315060	409055		1/2"	1,200'	80 lbs
315100		316300	9/16"	600'	50 lbs
315110	409060	316230	5/8"	600'	62 lbs
315115	409065		5/8"	1,200'	124 lbs
315120	409070	316235	3/4"	600'	90 lbs
315125	409071		3/4"	1,200'	180 lbs
315130	409080		7/8"	600'	122 lbs
315140	409085	316250	1"	600'	160 lbs
315145	409090		1"	1,200'	320 lbs
315150	409095		1-1/8"	600'	202 lbs
315160	409100		1-1/4"	600'	249 lbs
315200	409105		1-1/2"	600'	358 lbs
315217			1-3/4"	600'	486 lbs
315220	409110		2"	600'	636 lbs
315230	409109		2-1/4"	600'	804 lbs
315235	409113		2-1/2"	600'	990 lbs

*Gulf spec products may have different weights.



Polyester Rope - 3 Strand

Low stretch, high strength, good abrasion resistant, excellent resistance to UV, rot, mildew, oil, grease, gasoline and many chemicals. Standard color is white.

Item No	Diameter	Length	Approx Wt
335015	1/4"	600'	12 lbs
335025	5/16"	600'	18 lbs
335035	3/8"	600'	26 lbs
335055	1/2"	600'	46 lbs
335075	5/8"	600'	72 lbs
335100	5/8"	1,200'	144 lbs
335105	3/4"	600'	103 lbs
335110	3/4"	1,200'	206 lbs
335115	7/8"	600'	140 lbs
335125	1"	600'	182 lbs





PACIFIC™ Manila Rope Coils

Manila rope is a natural fiber made from abaca, low stretch and good abrasion resistant. Poor chemical resistance, subject to rot. Available with blue tracer or with no tracer. Meets Federal Specifications number TR605, Type M.

Standard Item No	Gulf Spec Item No	Diameter	Length	Approx Wt
200005	200495	3/16"	3,300'	45 lbs
200007	200500	1/4"	600'	10 lbs
200010	200506	1/4"	1,250'	25 lbs
	200505	1/4"	1,200'	22 lbs
200015	200510	1/4"	2,500'	50 lbs
200016		5/16"	600'	16 lbs
200021	200515	5/16"	830'	22 lbs
200020		5/16"	1,725'	44 lbs
200025	200525	3/8"	600'	25 lbs
200030	200530	3/8"	1,200'	50 lbs
200035	200535	7/16"	600'	29 lbs
200045	200545	1/2"	600'	42 lbs
200050	200550	1/2"	1,200'	84 lbs
200055	200555	5/8"	600'	76 lbs
200060	200560	5/8"	1,200'	142 lbs
200065	200565	3/4"	600'	95 lbs
200070	200570	3/4"	1,200'	190 lbs
200100	200575	7/8"	600'	128 lbs
200110	200585	1"	600'	154 lbs
200115	200590	1"	1,200'	308 lbs
200120	200595	1-1/8"	600'	206 lbs
200130	200605	1-1/4"	600'	238 lbs
200138	200610	1-1/2"	600'	342 lbs
200151	200635	2"	600'	612 lbs

Manila on Wooden Reels

Item No	Diameter	Length	Approx Wt
201003	1/4"	600'	11 lbs
201005	1/4"	1,200'	22 lbs
201007	5/16"	600'	16 lbs
201010	5/16"	850'	22 lbs
201015	3/8"	600'	25 lbs
201020	7/16"	600'	29 lbs
201025	1/2"	600'	42 lbs
201030	5/8"	600'	76 lbs
201035	3/4"	600'	95 lbs

4 Strand PACIFIC™ Manila Safety Line

Manila safety line is a natural fiber made from abaca, low stretch, excellent abrasion resistant. Poor chemical resistance, subject to rot and it has a 3/16" diameter wire center.

Item No	Diameter	Length	Approx Wt
203525	7/8"	600'	160 lbs



Sisal Rope Coils

Sisal rope is a natural fiber made from the Agave plant, no oil treatment. Moderate stretch, poor chemical resistance, subject to rot, knots well.

Item No	Diameter	Length	Approx Wt
208001	3/16"	3,300'	43 lbs
208005	1/4"	1,500'	26 lbs
208010	1/4"	2,500'	43 lbs
208015	5/16"	1,725'	43 lbs
208025	3/8"	600'	22 lbs
208030	3/8"	1,200'	43 lbs
208040	1/2"	600'	37 lbs
208050	5/8"	600'	64 lbs
208065	3/4"	600'	80 lbs
208066	7/8"	450'	80 lbs
208069	1"	370'	80 lbs



White Cotton Rope

Cotton rope is naturally soft, easy to work with, braids well and is very popular in the livestock industry. It is commonly used for halter and lead ropes. Cotton rope will not induce a rope burn as quickly as nylon and polypropylene rope. This rope is available in a combination of colors. Product consists of a cotton/polyester blend.

Coils	Diameter	Length	Approx Wt
210005	3/16"	2,250'	25 lbs
210010	1/4"	1,200'	22 lbs
210020	3/8"	600'	25 lbs
210035	1/2"	600'	38 lbs
210040	5/8"	600'	55 lbs
210045	3/4"	300'	40 lbs
210050	1"	300'	60 lbs
210052	1 1/4"	300'	63 lbs



White Cotton Rope - Spools

Item No	Diameter	Length	Approx Wt
211005	3/8"	600'	25 lbs
211015	1/2"	600'	38 lbs
211020	5/8"	600'	55 lbs
211025	3/4"	300'	40 lbs
211030	1"	300'	60 lbs

Spun Braided Polyester Halter Rope

Item No	Diameter	Length	Color	Approx Wt
216013	1/2"	300'	White	8 lbs
216014	1/2"	300'	Gold	8 lbs
216023	5/8"	300'	White	15 lbs
216024	5/8"	300'	Gold	15 lbs





Super Strength BLUE STEEL™ Poly Rope

BLUE STEEL™ is constructed from high strength, co-extruded high tenacity yarns. It has low elongation and is 35-40% stronger than regular polypropylene. It also has superior ultra violet resistance compared to regular polypropylene. The rope is very strong, easy to handle and offers twice the wear life compared to regular polypropylene.

BLUE STEEL™ has superior abrasion resistance, excellent resistance to most common chemicals, rot and mildew. The rope floats, does not absorb water and has a specific gravity of .91. The approximate melting point is 165 degrees.

Item No	Diameter	Length	Reel/Coil	Minimum Tensile Strength	Approx Wt
402005	1/8"	1,200'	Coil	470 lbs	5 lbs
402010	3/16"	1,200'	Coil	950 lbs	8 lbs
402011	3/16"	1,200'	Reel	950 lbs	8 lbs
402020	1/4"	1,200'	Coil	1,600 lbs	14 lbs
402023	5/16"	600'	Reel	3,100 lbs	12 lbs
402025	5/16"	1,200'	Reel	3,100 lbs	24 lbs
402040	3/8"	600'	Reel	3,800 lbs	15 lbs
402042	3/8"	1,200'	Reel	3,800 lbs	30 lbs
402045	7/16"	600'	Reel	4,700 lbs	18 lbs
402050	1/2"	600'	Reel	6,600 lbs	27 lbs
402055	1/2"	1,200'	Reel	6,600 lbs	53 lbs
402080	9/16"	600'	Reel	8,900 lbs	36 lbs
402082	5/8"	600'	Reel	11,000 lbs	46 lbs
402085	5/8"	1,200'	Coil	11,000 lbs	92 lbs
402084	5/8"	1,200'	Reel	11,000 lbs	92 lbs
402095	3/4"	600'	Coil	13,900 lbs	59 lbs
402097	3/4"	600'	Reel	13,900 lbs	59 lbs
402100	3/4"	1,200'	Coil	13,900 lbs	118 lbs
402105	7/8"	600'	Coil	20,100 lbs	88 lbs
402106	7/8"	600'	Reel	20,100 lbs	88 lbs
402110	7/8"	1,200'	Coil	20,100 lbs	177 lbs
402115	1"	600'	Coil	23,100 lbs	104 lbs
402120	1-1/8"	600'	Coil	30,100 lbs	142 lbs
402125	1-1/4"	600'	Coil	32,900 lbs	160 lbs
402126	1-1/4"	600'	Reel	32,900 lbs	160 lbs
402135	1-1/2"	600'	Coil	46,100 lbs	234 lbs
402142	1-5/8"	600'	Reel	55,600 lbs	288 lbs
402145	1-3/4"	600'	Coil	66,500 lbs	352 lbs
402148	1-3/4"	600'	Reel	66,500 lbs	352 lbs
402150	2"	600'	Coil	83,500 lbs	451 lbs
402162	2-1/4"	600'	Coil	107,100 lbs	609 lbs
402163	2-1/4"	600'	Reel	107,100 lbs	609 lbs
402170	2-1/2"	600'	Coil	122,300 lbs	695 lbs
402187	2-5/8"	600'	Coil	137,800 lbs	785 lbs
402195	3"	600'	Coil	176,000 lbs	1,014 lbs

Additional sizes also available.



Braided Rope

Double Braided (2 in 1)

Nylon Double Braid Rope

High strength, high stretch, torque free, excellent shock absorption, good resistance to abrasion, ultraviolet rays and common chemicals. Due to its high elongations, nylon is almost always used in applications involving shock loading such as anchor lines and mooring lines.

Item No	Diameter	Length	Color	Minimum Tensile	Approx Wt Per 600'
345015	1/4"	600'	White	1,900 lbs	11 lbs
345014	1/4"	600'	Gold/White	1,900 lbs	11 lbs
345099	1/4"	600'	Black	1,900 lbs	11 lbs
345025	5/16"	600'	White	2,900 lbs	16 lbs
345035	3/8"	600'	White	4,200 lbs	22 lbs
345012	3/8"	600'	Gold/White	4,200 lbs	22 lbs
345110	3/8"	600'	Black	4,200 lbs	22 lbs
345045	7/16"	600'	White	5,700 lbs	31 lbs
345050	1/2"	600'	White	7,400 lbs	40 lbs
345013	1/2"	600'	Gold/White	7,400 lbs	40 lbs
345120	1/2"	600'	Black	7,400 lbs	40 lbs
345060	5/8"	600'	White	14,800 lbs	70 lbs
345011	5/8"	600'	Gold/White	14,800 lbs	70 lbs
345115	5/8"	600'	Black	14,800 lbs	70 lbs
346070	3/4"	600'	White	19,000 lbs	88 lbs
346107	7/8"	600'	White	28,300 lbs	131 lbs
346110	1"	600'	White	33,500 lbs	156 lbs
346125	1-1/8"	600'	White	44,900 lbs	213 lbs
346127	1-1/4"	600'	White	52,300 lbs	244 lbs
346130	1-1/2"	600'	White	74,000 lbs	350 lbs
346135	1-5/8"	600'	White	92,400 lbs	434 lbs
346137	1-3/4"	600'	White	110,900 lbs	526 lbs
346140	2"	600'	White	131,500 lbs	623 lbs

Larger sizes and colors are available upon request.



Polyester Double Braid Rope

High strength, low stretch, torque free, excellent wet/dry abrasion resistant and wet/dry strength. Good resistance to ultraviolet rays and common chemicals. Obtains the best weathering characteristics of all popular fibers.

Item No	Diameter	Length	Color	Minimum Tensile	Approx Wt Per 600'
347020	1/4"	600'	White	2,400 lbs	15 lbs
347030	5/16"	600'	White	3,600 lbs	22 lbs
347040	3/8"	600'	White	4,800 lbs	29 lbs
347050	7/16"	600'	White	6,300 lbs	38 lbs
347060	1/2"	600'	White	8,400 lbs	52 lbs
347070	9/16"	600'	White	10,750 lbs	67 lbs
347100	5/8"	600'	White	12,300 lbs	79 lbs
348110	3/4"	600'	White	17,400 lbs	113 lbs
348123	7/8"	600'	White	24,000 lbs	154 lbs
348125	1"	600'	White	31,200 lbs	210 lbs
348130	1-1/8"	600'	White	39,500 lbs	255 lbs

Larger sizes and colors are available upon request.





Braided Rope

8 Strand



Super Dyna & HS Super Dan 8 Braid Mooring Lines

Two times the wear life of polypropylene, 20% to 25% stronger than polypropylene, non torque construction, good UV resistance, abrasion resistance, floats in water, excellent resistance to most common chemicals, rot and mildew. Made from high strength 100% polyolefin yarns.

Item No	Diameter	Length	Size	Minimum Tensile	Approx Wt
403645	1-5/8"	720'	40 mm	43,000 lbs	284 lbs
403647	2"	720'	50 mm	64,000 lbs	498 lbs
403652	2-1/4"	720'	56 mm	88,000 lbs	660 lbs
403655	2-1/2"	720'	60 mm	100,000 lbs	770 lbs
403662	2-5/8"	720'	64 mm	115,000 lbs	864 lbs
403665	3"	720'	72 mm	146,000 lbs	1,102 lbs
403670	3-1/4"	720'	80 mm	175,000 lbs	1,398 lbs
403675	4"	720'	96 mm	240,000 lbs	1,960 lbs
400223	2-5/8"	720'	64 mm	143,000 lbs	895 lbs
400232	3"	720'	72 mm	181,000 lbs	1,132 lbs
400236	3-1/4"	720'	80 mm	219,000 lbs	1,403 lbs

8 Braid BLUE STEEL™ Poly

High strength coextrusion polyolefin yarns, 35% to 40% stronger than polypropylene, non torque construction, superior UV resistance over polypropylene, superior abrasion resistant, floats in water, excellent resistance to most common chemicals, rot and mildew.

Item No	Coil/Reel	Diameter	Length	Minimum Tensile	Approx Wt
402118	Coil	1"	600'	22,800 lbs	105 lbs
402123	Coil	1-1/8"	600'	30,300 lbs	143 lbs
402130	Coil	1-1/4"	600'	34,200 lbs	162 lbs
402137	Coil	1-1/2"	600'	48,200 lbs	233 lbs
402143	Reel	1-5/8"	600'	59,400 lbs	287 lbs
402146	Coil	1-3/4"	600'	71,000 lbs	354 lbs
402147	Reel	1-3/4"	600'	71,000 lbs	354 lbs
402155	Coil	2"	600'	86,900 lbs	433 lbs
402156	Reel	2"	600'	86,900 lbs	433 lbs
402165	Coil	2-1/4"	600'	114,600 lbs	586 lbs
402166	Reel	2-1/4"	600'	114,600 lbs	586 lbs
402180	Coil	2-1/2"	600'	130,900 lbs	672 lbs
402181	Reel	2-1/2"	600'	130,900 lbs	672 lbs
402188	Coil	2-5/8"	600'	147,300 lbs	762 lbs
402200	Coil	3"	600'	187,300 lbs	962 lbs
402210	Coil	3-1/4"	600'	226,700 lbs	1,188 lbs
402225	Coil	4"	600'	319,800 lbs	1,699 lbs

Nylon 8 Braid

High elongation and strength, good energy absorption, non torque construction, good abrasion resistant, superior UV resistance, rot, mildew, oil, grease, gasoline and most common chemicals.

Item No	Diameter	Length	Average Tensile	Approx Wt
409126	2"	600'	96,900 lbs	636 lbs
409131	2-5/8"	600'	163,800 lbs	1,086 lbs
409136	3"	600'	209,800 lbs	1,422 lbs
409138	3-1/4"	600'	248,800 lbs	1,728 lbs
409145	4"	600'	356,400 lbs	2,520 lbs



BLUE STEEL™ Copolymer 12 Strand

High strength coextrusion polyolefin yarns, 35% to 40% stronger than polypropylene, flexible non rotating construction, superior UV resistance over polypropylene, superior abrasion resistant, floats in water, excellent resistance to most common chemicals, rot and mildew, easily spliced.

Item No	Diameter	Length	Minimum Tensile	Approx Wt
353310	1/2"	600'	6,900 lbs	32.4
353320	5/8"	600'	12,200 lbs	57.6
353325	3/4"	600'	15,900 lbs	75.0
353328	7/8"	600'	21,200 lbs	102.0
353330	1"	600'	25,200 lbs	116.4
353334	1-1/8"	600'	33,500 lbs	159.0

Sizes 1-1/4" through 4" also available by special order only.



SPECTRA® 12 Strand

Very high strength synthetic rope with excellent abrasion resistant in a single braid construction. It comes standard with a polyurethane finish and is easily spliced using a lockstitch type splice, 4-3-2 or 5-4-3 tuck splice. It also has a low stretch, low creep, soft hand, is torque-free and it floats.

Item No	Diameter	Length	Minimum Tensile	Approx Wt
353344	1/8"	600'	1,800 lbs	3.2
353343	3/16"	600'	3,600 lbs	6.0
353345	5/16"	600'	9,000 lbs	15.6
353346	1/4"	600'	6,000 lbs	9.6
353349	3/8"	600'	13,900 lbs	22.2
353348	3/8"	1,200'	13,900 lbs	44.4
353352	7/16"	600'	14,800 lbs	25.2
353350	1/2"	600'	22,500 lbs	38.4
353351	1/2"	1,200'	22,500 lbs	76.8
353355	5/8"	600'	36,600 lbs	63.6
353358	3/4"	600'	43,200 lbs	79.8

All other sizes are available.



PLASMA® 12 Strand

Highest strength synthetic rope available. It comes standard with a polyurethane finish and is easily spliced using a lockstitch type splice, 4-3-2 or 5-4-3 tuck splice. It also has the lowest stretch, low creep, soft hand, is torque-free and it floats.

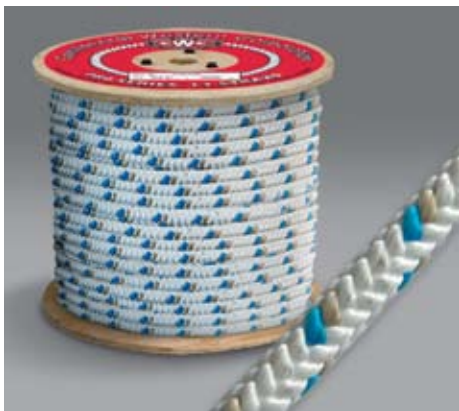
Item No	Diameter	Length	Minimum Tensile	Approx Wt
353501	3/16"	600'	5,500 lbs	6.8
353500	5/16"	600'	11,700 lbs	15.0
353505	7/16"	600'	21,000 lbs	25.2

All other sizes are available.





PRO SERIES™ Arborist Rope



PRO SERIES™ 12 Strand - White

A climbing and bull rope, each yarn is made of high tenacity polyester covering a polyolefin core. The rope is white with distinctive blue and gold polyester tracers. Designed with a firm lay and special finish, 12 strand rope is lightweight yet strong, giving good resistance to abrasive wear when running over limbs and against bark while under load. 12 strand rope maintains its shape, has good knot control, is flexible, non-rotational and will not hockle.

Item No	Diameter	Length	Tensile Strength	Approx Wt/100'
349175	1/2"	600'	5,400 lbs	7.5 lbs
349185	5/8"	600'	6,500 lbs	10.7 lbs

PRO SERIES™ 16 Strand - Red

A perfectly balanced climbing rope of high tenacity 100% polyester construction. This distinctive red polyester rope is enhanced by a gold tracer. This rope is designed to improve wear and give excellent knot control. 16 strand rope offers high strength, low stretch, flexibility, is non-rotational, maintains its round shape in use - the perfect choice for the professional arborist.

Item No	Diameter	Length	Tensile Strength	Approx Wt/100'
349255	1/2"	600'	5,500 lbs	7.5 lbs

PRO SERIES™ 16 Strand - White

A perfectly balanced climbing rope of high tenacity 100% polyester construction. This distinctive white polyester rope is enhanced by an orange fleck. This rope is designed to improve wear and give excellent knot control. 16 strand rope offers high strength, low stretch, flexibility, is non-rotational, maintains its round shape in use - the perfect choice for the professional arborist.

Item No	Diameter	Length	Tensile Strength	Approx Wt/100'
349275	1/2"	600'	5,500 lbs	7.5 lbs

PRO SERIES™ 16 Strand - Max Vis

The ultimate high visibility rope, with alternating orange and yellow fluorescent strands. Its 16 strand construction, quality and performance are identical to 16 strand - white and 16 strand - red. 16 strand - Max Vis truly sets the standard in high visibility climbing ropes.

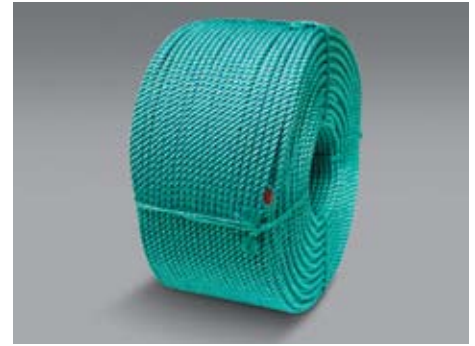
Item No	Diameter	Length	Tensile Strength	Approx Wt/100'
349295	1/2"	600'	5,500 lbs	7.5 lbs
349300	5/8"	600'	8,300 lbs	11.0 lbs



BLUE STEEL™ Floating Crab Rope Coextrusion Polyolefin - Super Strong

Hard lay, high strength, co-polymer fibers, floating, excellent abrasion resistant. 40 % stronger than polypro, low stretch. Exclusive to CWC. Look for distinctive aqua blue with blue tracer yarn.

Item No	Diameter	Length	Average Tensile Strength	Approx Wt/Coil
415300	5/16"	1,200'	2,650 lbs	37 lbs
415305	3/8"	1,200'	3,740 lbs	46 lbs
415310	7/16"	1,200'	4,730 lbs	57 lbs
415315	1/2"	1,200'	6,160 lbs	69 lbs
415306	9/16"	1,200'	7,850 lbs	107 lbs
415312	5/8"	1,200'	9,970 lbs	125 lbs



SILVER PACIFIC™ Floating Crab Rope Coextrusion Polyolefin - Super Strong

Hard lay, high strength, co-polymer fibers, floating, excellent abrasion resistant. 40 % stronger than polypro, low stretch. Silver with black and blue tracer yarns.

Item No	Diameter	Length	Average Tensile Strength	Approx Wt/Coil
415005	5/16"	1,200'	2,215 lbs	32 lbs
415010	3/8"	1,200'	3,470 lbs	42 lbs
415015	7/16"	1,200'	4,530 lbs	57 lbs
415020	1/2"	1,200'	5,880 lbs	73 lbs
415022	9/16"	1,200'	6,940 lbs	86 lbs



STEEL PRO™ Floating Crab Rope High Strength Crab Lines

Lavender co-polymer crab rope, high strength, excellent abrasion resistant, and it floats.

Item No	Diameter	Length	Average Tensile Strength	Approx Wt/Coil
310300	5/16"	1,200'	2,215 lbs	32 lbs
310305	3/8"	1,200'	3,470 lbs	42 lbs
310310	7/16"	1,200'	4,530 lbs	57 lbs
310315	1/2"	1,200'	5,880 lbs	73 lbs
310325	9/16"	1,200'	7,700 lbs	100 lbs
310330	5/8"	1,200'	9,400 lbs	121 lbs
310335	3/4"	1,200'	12,500 lbs	170 lbs



XTRA LINE™ Floating Crab Rope Split Film Crab Lines

Hard lay, split film construction, economical, light silver with black and blue tracer yarn.

Item No	Diameter	Length	Average Tensile Strength	Approx Wt/Coil
415350	3/8"	1,200'	3,180 lbs	46 lbs
415360	7/16"	1,200'	4,020 lbs	60 lbs
415361	1/2"	1,200'	5,230 lbs	78 lbs





ICE BLUE STEEL™ Combo Sinking Crab Rope High Strength Polyolefin w/Polyester Cover

An excellent abrasion resistant sinking rope comprised of polyester plied yarns over high strength BLUE STEEL™ core yarns. White with the distinctive BLUE STEEL™ core yarns, one orange and one blue tracer yarn. Hard lay construction.

Item No	Diameter	Length	Average Tensile	Approx Wt/Coil
415510	3/8"	1,200'	3,210 lbs	59 lbs
415521	7/16"	1,200'	3,420 lbs	68 lbs
415520	1/2"	1,200'	4,850 lbs	87 lbs
415525	9/16"	1,200'	6,500 lbs	118 lbs
415530	5/8"	1,200'	8,700 lbs	168 lbs

CAUTION:
All hard lay synthetic ropes have as much as 30% less strength than regular rope.



Polypropylene Trailer & Bridle Line Medium Lay - Yellow w/Black Tracer Yarns

Item No	Type	Diameter	Length	Approx Wt/Coil
411005	Trailer Line	5/8"	1,200'	100 lbs
411010	Trailer Line	3/4"	1,200'	128 lbs
411012	Bridle Line	1"	600'	110 lbs



Multi-Colored Chaffing Rope

Bulky and loosely twisted polyethylene that helps protect valuable gear from abrasion and protects shrimp netting.

Item No	Construction	Diameter	Length	Approx Wt/Coil
302105	100% Polyethylene	1"	600'	100 lbs



Cotton Escape Cord Biodegradable - 100% Cotton, Twisted

It is specially designed for use as an escape cord on crab traps, fish, nets and traps. Consult your local regulations for cord size requirements. Department of Fisheries requires that this cord be 100% pure cotton. Our cord meets all requirements and is biodegradable.

Item No	Size	Approx Ft/Lb	Approx Wt/Tube
137160	#30	640'	2 lbs
137170	#60	120'	2 lbs
137175	#60	120'	5 lbs
137199	#120	160'	2 lbs
137200	#120	160'	5 lbs



Longlines/Groundlines Leaded Manline Groundline with Orange Tracer

Item No	Diameter	Length	Rope Type	Minimum Break	Approx Wt/Coil
430004	1/4"	600'	Manline Polypro	1,200 lbs	2 lbs
430001	5/16"	100'	Manline Polypro	1,600 lbs	3 lbs
430005	5/16"	400'	Manline Polypro	1,600 lbs	12 lbs
430010	5/16"	600'	Manline Polypro	1,600 lbs	18 lbs
430015	5/16"	1,800'	Manline Polypro	1,600 lbs	48 lbs
430018	11/32"	1,800'	Manline Polypro	2,100 lbs	65 lbs
430020	3/8"	600'	Manline Polypro	2,600 lbs	25 lbs
430025	3/8"	1,800'	Manline Polypro	2,600 lbs	75 lbs
430030	7/16"	1,800'	Manline Polypro	3,800 lbs	106 lbs
430215	5/16"	1,800'	Blue Steel™	1,820 lbs	48 lbs
430118	11/32"	1,800'	Blue Steel™	2,400 lbs	65 lbs
430125	3/8"	1,800'	Blue Steel™	4,000 lbs	75 lbs



Pleasure Marine Nylon Dockline Double Braid

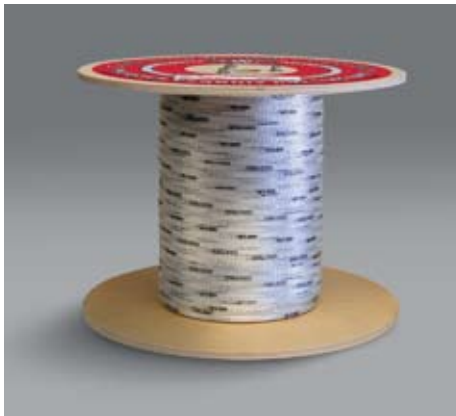
Item No	Color	Diameter	Length	Approx Wt/Doz
350609	White	3/8"	15'	8 lbs
350611	White	3/8"	20'	11 lbs
350616	White	3/8"	25'	13 lbs
350624	White	1/2"	10'	13 lbs
350625	White	1/2"	15'	13 lbs
350626	White	1/2"	20'	17 lbs
350628	White	1/2"	25'	20 lbs
350630	White	1/2"	30'	24 lbs
350643	White	5/8"	25'	34 lbs
350645	White	5/8"	30'	35 lbs
350651	White	5/8"	35'	46 lbs
350199	Black	3/8"	15'	8 lbs
350209	Black	1/2"	20'	13 lbs
350021	Gold/White	3/8"	15'	8 lbs
350071	Gold/White	1/2"	20'	17 lbs
350261	Blue	1/2"	20'	17 lbs



Pleasure Marine White Nylon Dockline Twisted 3 Strand

Item No	Color	Diameter	Length	Approx Wt/Each
317011	White	3/8"	15'	8 lbs
317016	White	3/8"	20'	9 lbs
317021	White	3/8"	25'	12 lbs
317046	White	1/2"	20'	17 lbs
317051	White	1/2"	25'	20 lbs
317056	White	1/2"	30'	24 lbs
317061	White	5/8"	20'	29 lbs
317063	White	5/8"	25'	32 lbs
317066	White	5/8"	30'	34 lbs
317071	White	5/8"	35'	35 lbs





3 Strand Polypropylene Conduit Rope

Spliceable rope with good dielectric properties. May be stored wet without fiber damage. Uses include; T & D stringing lines, conduit pulling lines and hand lines.

Item No	Diameter	Length	Minimum Tensile	Approx Wt
304003	1/8"	1,000'	300 lbs	3 lbs
304005	1/8"	3,000'	300 lbs	9 lbs
300010	3/16"	600'	650 lbs	5 lbs
300015	3/16"	1,200'	650 lbs	10 lbs
304025	3/16"	3,000'	650 lbs	21 lbs
304027	3/16"	3,600'	650 lbs	25 lbs
300035	1/4"	600'	1,125 lbs	8 lbs
300040	1/4"	1,200'	1,125 lbs	16 lbs
304042	1/4"	2,000'	1,125 lbs	14 lbs
304045	1/4"	2,400'	1,125 lbs	26 lbs
304050	1/4"	4,000'	1,125 lbs	44 lbs
304060	1/4"	25,000'	1,125 lbs	280 lbs
304070	5/16"	5,000'	1,710 lbs	72 lbs
300075	3/8"	600'	2,430 lbs	16 lbs
300080	3/8"	1,200'	2,430 lbs	32 lbs
304100	3/8"	2,500'	2,430 lbs	60 lbs
304105	3/8"	3,600'	2,430 lbs	90 lbs

Polyester Conduit Pulling Tape

Preferred choice for underground measuring and pulling of fiber optic and other lightweight cables. Specially designed for the telecommunications and power utility industries. Sequential foot markings allow for accurate measurement while flat woven construction and specially formulated lubricants work to minimize friction and duct cutting. Uses include; fiber optic and other lightweight cable pulls.

Item No	Diameter	Length	Approx Tensile	Approx Wt
179004*	3/16"	3,000'	160 lbs	4.5 lbs
179105	1/4"	3,000'	400 lbs	11 lbs
179118	1/2"	1,500'	400 lbs	13 lbs
179120	1/2"	3,000'	1,250 lbs	26 lbs
179125	1/2"	5,000'	1,250 lbs	40 lbs
179135	5/8"	3,000'	1,800 lbs	34 lbs
179140	5/8"	5,000'	1,800 lbs	55 lbs
179145	5/8"	10,000'	1,800 lbs	155 lbs
179008	3/4"	1,000'	2,500 lbs	19 lbs
179174	3/4"	1,500'	2,500 lbs	26 lbs
179010	3/4"	3,000'	2,500 lbs	50 lbs
179177	3/4"	5,000'	2,500 lbs	80 lbs

*Packaged 8 spools per carton

KEVLAR™ Pulling Tape

Produced using high tenacity, high strength aramid yarns. These tapes offer the highest strength per width along with low elongation. Aramid fibers limiting oxygen index (LOI) allows the tapes to be used in plenum duct applications where flame resistant requirements exist.

Item No	Diameter	Length	Construction	Approx Tensile	Approx Wt
179200	3/8"	3,000'	Woven	1,250 lbs	13 lbs
179201	1/2"	3,000'	Woven	2,500 lbs	20 lbs

Double Braid Polyester Pulling Rope with Eyes

High strength, low stretch, torque free, especially suited for prolonged outdoor exposure. Good dielectric properties. Factory spliced eyes at each end. Uses include: T & D stringing lines, winch lines and hand lines. Urethane coating available.

Item No	Diameter	Length	Minimum Tensile	Approx Wt
347043	3/8"	600'	4,800 lbs	29 lbs
347473	1/2"	600'	8,400 lbs	33 lbs
347475	5/8"	600'	12,300 lbs	117 lbs
348115	3/4"	600'	17,400 lbs	168 lbs
348116	3/4"	1,200'	17,400 lbs	336 lbs
348124	7/8"	600'	24,000 lbs	229 lbs
348114	7/8"	1,200'	24,000 lbs	457 lbs
348127	1"	600'	31,200 lbs	300 lbs



Conduit Pull Line - Buckets

Strong monofilament polypropylene blow twine. Ties easily and holds a knot well. Uses include; blow lines and cable tying twine.

Item No	Color(s)	Length	Approx Tensile	Approx Wt
027014	White/Blue	6,500'	210 lbs	10 lbs
027505	White/Yellow	5,200'	240 lbs	10 lbs
027440	White/Red	2,200'	500 lbs	10 lbs



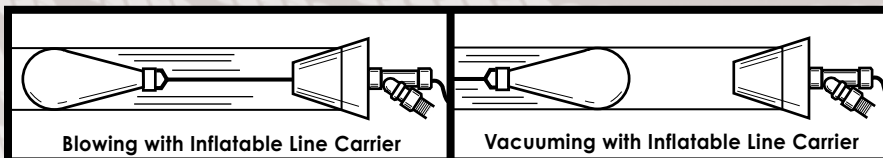
Conduit Pull Line - Cartons

Item No	Color(s)	Length	Approx Tensile	Approx Wt
027013	White/Blue	6,500'	210 lbs	10 lbs



Conduit Pull Line - Tubes

Item No	Color(s)	Length	Approx Tensile	Approx Wt
027016	White/Blue	6,500'	210 lbs	10 lbs
027500	White/Yellow	5,200'	240 lbs	10 lbs
027430	White/Red	2,200'	500 lbs	10 lbs





Hollow Braid Monofilament Polypropylene

Sometimes called Diamond Braid, this easy to splice floating rope is one of the most versatile and widely used ropes today. It will not rot or mildew and has good knot holding ability with great resistance to deterioration from oil, grease, and most chemicals.

Item No	Size	Diameter	Length	Color	Average Tensile	Approx Wt/Spool
100005	#4	1/8"	1,000'	Yellow	230 lbs	4 lbs
100010	#6	3/16"	500'	Yellow	690 lbs	3 lbs
100015	#6	3/16"	1,000'	Yellow	690 lbs	6 lbs
100026	#8	1/4"	400'	Yellow	990 lbs	4 lbs
100030	#8	1/4"	500'	Yellow	990 lbs	5 lbs
100035	#8	1/4"	1,000'	Yellow	990 lbs	9 lbs
100050	#10	5/16"	300'	Yellow	1,238 lbs	5 lbs
100055	#10	5/16"	500'	Yellow	1,238 lbs	8 lbs
100060	#10	5/16"	1,000'	Yellow	1,238 lbs	15 lbs
100070	#12	3/8"	300'	Yellow	1,980 lbs	6 lbs
100075	#12	3/8"	500'	Yellow	1,980 lbs	9 lbs
100100	#12	3/8"	1,000'	Yellow	1,980 lbs	19 lbs
100105	#16	1/2"	300'	Yellow	2,880 lbs	9 lbs
100110	#16	1/2"	500'	Yellow	2,880 lbs	14 lbs
100115	#16	1/2"	1,000'	Yellow	2,880 lbs	29 lbs
100130	#20	5/8"	500'	Yellow	6,500 lbs	30 lbs
100135	#20	5/8"	1,000'	Yellow	6,500 lbs	60 lbs
100140	#24	3/4"	500'	Yellow	7,500 lbs	43 lbs
100027	#8	1/4"	400'	Orange	990 lbs	4 lbs
100047	#8	1/4"	1,000'	Orange	990 lbs	9 lbs
100292	#6	3/16"	660'	Green	690 lbs	4 lbs
100293	#6	3/16"	1,320'	Green	690 lbs	8 lbs
100294	#8	1/4"	1,980'	Green	990 lbs	18 lbs
100295	#8	1/4"	660'	Green	990 lbs	7 lbs
100296	#8	1/4"	1,320'	Green	990 lbs	13 lbs
100297	#10	5/16"	660'	Green	1,238 lbs	10 lbs
100298	#12	3/8"	600'	Green	1,980 lbs	11 lbs
100299	#16	1/2"	600'	Green	2,880 lbs	17 lbs

Solid Braid Monofilament Polypropylene

Lightweight, round, firm, floats, resistant to deterioration from oil, grease and most common chemicals.

Item No	Size	Diameter	Length	Average Tensile	Approx Wt/Spool
116030	#8	1/4"	1,000'	875 lbs	10 lbs
116050	#12	3/8"	1,000'	1,900 lbs	23 lbs

Solid Braid Multifilament Polypropylene - Hanks

Soft pliable hand line, lightweight, round, firm, floats, resistant to deterioration from oil, grease and most common chemicals.

Item No	Size	Diameter	Length	Qty/Ctn	Approx Wt/Dozen
115270	#8	1/4"	50'	12	9 lbs
115275	#8	1/4"	100'	12	14 lbs
115285	#10	5/16"	100'	12	24 lbs
115295	#12	3/8"	100'	12	35 lbs

Diamond Braid Sensor Cord

Item No	Size	Diameter	Length	Description	Approx Wt/Spool
116051	#4	1/8"	1,000'	Yellow Polypro	4.5 lbs
116052	#4	1/8"	1,000'	White Polyester	5.0 lbs
116053	#4	1/8"	1,000'	Yellow Polyester w/ Kevlar	5.0 lbs

Solid Braid Nylon Cord

An extremely strong, soft, lightweight cord with excellent resistance to rot, abrasion, mildew, petroleum products and most chemicals. It has a shock-absorbing elasticity that allows it to withstand great strain. Solid braided construction stays round and works well in pulleys.

Item No	Size	Diameter	Spool Length	Average Tensile	Approx Wt/Spool
105005	#3	3/32"	1,000'	185 lbs	3 lbs
105735	#4	1/8"	50'	575 lbs	.15 lbs
105218	#4	1/8"	100'	575 lbs	.3 lbs
105003	#4	1/8"	600'	575 lbs	2 lbs
105025	#4	1/8"	1,000'	575 lbs	4 lbs
105030	#5	5/32"	500'	720 lbs	3 lbs
105035	#5	5/32"	1,000'	720 lbs	7 lbs
105233	#6	3/16"	50'	825 lbs	.4 lbs
105235	#6	3/16"	100'	825 lbs	.8 lbs
105140	#6	3/16"	475'	825 lbs	4 lbs
105045	#6	3/16"	500'	825 lbs	4 lbs
105050	#6	3/16"	1,000'	975 lbs	9 lbs
105054	#7	7/32"	1,000'	975 lbs	11 lbs
105145	#8	1/4"	200'	1,325 lbs	5 lbs
105246	#8	1/4"	100'	1,325 lbs	2 lbs
105057	#8	1/4"	250'	1,325 lbs	4 lbs
105060	#8	1/4"	500'	1,325 lbs	7 lbs
105330	#8	1/4"	500'	1,325 lbs	7 lbs
105065	#8	1/4"	1,000'	1,325 lbs	13 lbs
105150	#10	5/16"	175'	1,925 lbs	4 lbs
105097	#10	5/16"	200'	1,925 lbs	4 lbs
105100	#10	5/16"	500'	1,925 lbs	10 lbs
105105	#10	5/16"	1,000'	1,925 lbs	21 lbs
105110	#12	3/8"	100'	2,800 lbs	4 lbs
105112	#12	3/8"	125'	2,800 lbs	4 lbs
105115	#12	3/8"	500'	2,800 lbs	18 lbs
105120	#12	3/8"	1,000'	2,800 lbs	35 lbs
105127	#16	1/2"	80'	4,200 lbs	4 lbs
105129	#16	1/2"	250'	4,200 lbs	14 lbs
105130	#16	1/2"	500'	4,200 lbs	28 lbs
105135	#16	1/2"	1,000'	4,200 lbs	55 lbs

Colors are available upon request.

Solid Braid Nylon Cord - Hanks

100 foot hanks come connected and shrink wrapped. They are white and are only sold one dozen per carton.

Item No	Size	Size	Ft/Hank	Average Tensile	Approx Wt/Dozen
105220	#6	3/16"	50'	825 lbs	5 lbs
105225	#6	3/16"	100'	825 lbs	10 lbs
105240	#8	1/4"	50'	1,325 lbs	7 lbs
105245	#8	1/4"	100'	1,325 lbs	15 lbs
105250	#10	5/16"	50'	1,925 lbs	15 lbs
105255	#10	5/16"	100'	1,925 lbs	19 lbs
105260	#12	3/8"	50'	2,800 lbs	21 lbs





Solid Braid Polyester

A strong rope with low stretch, firm construction for good abrasion resistant, excellent resistance to UV, works extremely well in pulleys.

Item No	Size	Diameter	Length	Average Tensile	Approx Wt/Spool
110004	#5	5/32"	500'	550 lbs	3 lbs
110025	#6	3/16"	475'	820 lbs	5 lbs
110030	#8	1/4"	200'	1,300 lbs	4 lbs
110003	#4	1/8"	1,000'	400 lbs	5 lbs
110005	#6	3/16"	1,000'	820 lbs	11 lbs
110010	#8	1/4"	1,000'	820 lbs	16 lbs
110011	#9	9/32"	1,000'	1,450 lbs	21 lbs
110014	#10	5/16"	500'	1,750 lbs	14 lbs
110015	#10	5/16"	1,000'	1,750 lbs	28 lbs
110016	#12	3/8"	500'	2,700 lbs	20 lbs
110019	#16	1/2"	500'	4,500 lbs	32 lbs

Flagpole Rope Braided Polyester w/ Galvanized Wire Center

Especially designed for flagpole and industrial use. It has a sash cord type construction, with a galvanized wire center protected by a solid braided polyester jacket.

Item No	Size	Diameter	Length	Qty/Ctn	Approx Wt/Spool
164010	#8	1/4"	1,000'	12	36 lbs
164014	#10	5/16"	500'	12	28 lbs
164030	#12	3/8"	500'	12	35 lbs

Synthetic Utility Cord - Hanks

Item No	Size	Diameter	Length	Qty/Ctn	Approx Wt/Dozen
161005	#4	1/8"	48'	12	2 lbs
161010	#4	1/8"	100'	12	5 lbs

Synthetic Paracord

Item No	Size	Diameter	Length	Color	Approx Wt/Tube
161200	#6	3/16"	1,000'	Yellow	5 lbs
161205	#6	3/16"	1,000'	Red	5 lbs
161210	#6	3/16"	1,000'	Black	5 lbs
161215	#6	3/16"	1,000'	Brown	5 lbs
161220	#6	3/16"	1,000'	Purple	5 lbs
161225	#6	3/16"	1,000'	Blue	5 lbs
161230	#6	3/16"	1,000'	Green	5 lbs
161240	#6	3/16"	1,000'	White	5 lbs
161245	#6	3/16"	1,000'	Tan	5 lbs
161250	#6	3/16"	1,000'	Royal Blue	5 lbs

Synthetic Starter Cord

Item No	Size	Diameter	Length	Average Tensile	Approx Wt/Spool
106110	#4	1/8"	250'	300 lbs	1 lbs
106115	#4	1/8"	1,000'	300 lbs	5 lbs
106120	#5	5/32"	250'	500 lbs	2 lbs
106125	#5	5/32"	1,000'	500 lbs	7 lbs
106130	#6	3/16"	250'	600 lbs	2 lbs
106135	#6	3/16"	1,000'	600 lbs	10 lbs
106140	#8	1/4"	250'	1,050 lbs	2 lbs
106145	#8	1/4"	1,000'	1,050 lbs	13 lbs

Premium Sash Cord - Hanks

This cord has an interlocking solid braid construction, a durable composite cotton cover, and is polished with a weather resistant coating. It also has a synthetic reinforcing core. Hanks are 100' connected and shrink wrapped.

Item No	Size	Diameter	Length	Qty/Ctn	Average Tensile	Approx Wt/Ctn
120005	#6	3/16"	100'	12	260 lbs	12 lbs
120010	#7	7/32"	100'	12	330 lbs	17 lbs
120015	#8	1/4"	100'	12	600 lbs	22 lbs
120020	#10	5/16"	100'	12	1,000 lbs	34 lbs
120025	#12	3/8"	100'	12	1,200 lbs	41 lbs
120030	#16	1/2"	100'	12	1,400 lbs	60 lbs

Premium Sash Cord - Black Hanks

Item No	Size	Diameter	Length	Qty/Ctn	Average Tensile	Approx Wt/Dozen
124350	#6	3/16"	100'	12	260 lbs	12 lbs
124355	#8	1/4"	100'	12	600 lbs	17 lbs
124360	#10	5/16"	100'	12	1,000 lbs	34 lbs
124365	#12	3/8"	100'	12	1,400 lbs	41 lbs

Premium Sash Cord - Spools

Item No	Size	Diameter	Length	Qty/Ctn	Average Tensile	Approx Wt/Spool
120031	#6	3/16"	1,200'	1	260 lbs	12 lbs
120041	#8	1/4"	1,200'	1	600 lbs	22 lbs
120046	#10	5/16"	1,200'	1	1,000 lbs	34 lbs
120051	#12	3/8"	1,200'	1	1,200 lbs	41 lbs
120052	#16	1/2"	1,000'	1	1,400 lbs	46 lbs

SPOT™ Sash Cord - Hanks

Item No	Size	Diameter	Length	Qty/Ctn	Average Tensile	Approx Wt/Ctn
123200	#6	3/16"	100'	12	700 lbs	14 lbs
123205	#7	7/32"	50'	12	830 lbs	9 lbs
123210	#7	7/32"	100'	12	830 lbs	18 lbs
123215	#8	1/4"	100'	12	1,000 lbs	24 lbs
123225	#10	5/16"	100'	12	1,600 lbs	34 lbs
123230	#12	3/8"	100'	12	2,000 lbs	49 lbs
123231	#16	1/2"	100'	6	3,600 lbs	42 lbs

SPOT™ Sash Cord - Spools

Item No	Size	Diameter	Length	Qty/Ctn	Average Tensile	Approx Wt/Spool
123220	#8	1/4"	1,200'	1	1,000 lbs	24 lbs
123221	#10	5/16"	1,200'	1	1,600 lbs	34 lbs
123240	#12	3/8"	1,200'	1	2,000 lbs	49 lbs

100% Cotton Weeping Cord - Hanks

Item No	Size	Diameter	Length	Qty/Ctn	Average Tensile	Approx Wt/Dozen
124708	#8	1/4"	100'	12	180 lbs	14 lbs
124710	#10	5/16"	100'	12	230 lbs	26 lbs
124718	#12	3/8"	100'	12	240 lbs	32 lbs





Awning Cord

Constructed with tight interlacing cotton yarns. This construction permits core fibers to be used for the purpose of adding strength. Diamond braided cord may be used for a variety of applications.

Item No	Size	Diameter	Length	Approx Wt/Tube
125105	#4	1/8"	1,500'	7 lbs
125110	#4-1/2	9/64"	1,500'	11 lbs
125115	#5	5/32"	1,500'	13 lbs
125120	#6	3/16"	1,500'	16 lbs
125125	#8	1/4"	1,500'	27 lbs

Venetian Blind Cord

Constructed stiffer than solid braid. This cord is very flexible and knots easily. It is a maypole braided cotton over a synthetic core and is an excellent drapery & traverse cord.

Item No	Size	Diameter	Length	Color	Approx Wt
136078	#4	1/8"	3,000'	White	14 lbs Spool
136060	#4	1/8"	50' (Hank)	Black	4 lbs Dozen
136065	#4-1/2	9/64"	48' (Hank)	White	5 lbs Dozen
160013	#4	1/8"	600'	Black	3 lbs Spool
160019	#4	1/8"	3,000'	Black	14 lbs Spool
160029	#4-1/2	9/64"	600'	Black	5 lbs Spool
160041	#4-1/2	9/64"	3,000'	Black	16 lbs Spool
136061	#4	1/8"	48' (Hank)	Black	4 lbs Dozen
136206	#4	1/8"	50' (Hank)	White	4 lbs Dozen

Solid Braid Multifilament Poly Rope - In Colors

Excellent halter & lead rope. It is very soft and supple and handles exceptionally well. It is strong and durable, and it is resistant to rot, abrasion and grease. It also floats.

Item No	Diameter	Length	Color	Approx Wt
115315	3/8"	500'	Green/White	15 lbs
115320	3/8"	500'	Blue/White	15 lbs
115325	3/8"	500'	Red/White	15 lbs
115310	3/8"	500'	Green	15 lbs
115300	3/8"	500'	Blue	15 lbs
115316	27/64"	500'	Green/White	18 lbs
115321	27/64"	500'	Blue/White	18 lbs
115326	27/64"	500'	Red/White	18 lbs
115331	27/64"	500'	Black/White	18 lbs
115421	5/8"	200'	Yellow	15 lbs
115450	5/8"	200'	Blue/White	15 lbs
115453	5/8"	200'	Navy/White	15 lbs
115454	5/8"	200'	Blue/Silver	15 lbs
115460	5/8"	200'	Red/White	15 lbs
115465	5/8"	200'	Black/White	15 lbs
115467	5/8"	200'	Black/Silver	15 lbs
115470	5/8"	200'	Brown/White	15 lbs
115480	5/8"	200'	Burgundy/White	15 lbs
115485	5/8"	200'	Burgundy/Silver	15 lbs
115405	5/8"	200'	White	15 lbs
115410	5/8"	200'	Blue	15 lbs
115411	5/8"	200'	Navy Blue	15 lbs
115413	5/8"	200'	Turquoise	15 lbs
115414	5/8"	200'	Teal	15 lbs
115415	5/8"	200'	Green	15 lbs
115416	5/8"	200'	Hunter Green	15 lbs
115420	5/8"	200'	Red	15 lbs
115423	5/8"	200'	Orange	15 lbs
115425	5/8"	200'	Burgundy	15 lbs
115427	5/8"	200'	Purple	15 lbs
115428	5/8"	200'	Raspberry	15 lbs
115430	5/8"	200'	Black	15 lbs
115435	5/8"	200'	Brown	15 lbs
115440	5/8"	200'	Silver	15 lbs
115445	5/8"	200'	Gold	15 lbs
115455	5/8"	200'	Green/White	15 lbs

Premium Shock / Bungee Cord

An elastic cord constructed with many continuous strands of filament rubber protected with an abrasion resistant synthetic fiber jacket. It has unlimited uses in boating, camping, homes, luggage tie downs, bicycles, motorcycles, trucks, trailers and car-top carriers.

Item No	Size	Diameter	Length	Color	Approx Tensile	Approx Wt/Spool
162001	#4	1/8"	250'	White	60 lbs	2 lbs
162002	#4	1/8"	250'	Black	60 lbs	2 lbs
162005	#6	3/16"	250'	White	80 lbs	4 lbs
162006	#6	3/16"	250'	Black	80 lbs	4 lbs
162015	#8	1/4"	250'	White	100 lbs	6 lbs
162016	#8	1/4"	250'	Black	100 lbs	6 lbs
162025	#10	5/16"	250'	White	170 lbs	10 lbs
162026	#10	5/16"	250'	Black	170 lbs	10 lbs
162035	#12	3/8"	250'	White	190 lbs	14 lbs
162073	#12	3/8"	250'	Black	190 lbs	14 lbs
162040	#16	1/2"	150'	White	275 lbs	15 lbs
162050	#16	1/2"	250'	White	275 lbs	24 lbs
162075	#16	1/2"	250'	Black	275 lbs	24 lbs
162080	#20	5/8"	150'	White	300 lbs	35 lbs
162077	#24	3/4"	250'	Black	325 lbs	49 lbs



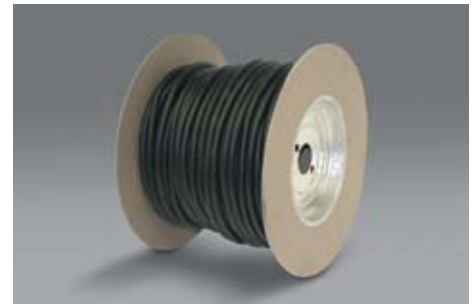
Black Shock Cord Hooks - Plastic Coated

Item No	Size	Qty/Ctn	Approx Wt/Ctn
162200	3/16"	50	4 lbs
162205	1/4"	50	4 lbs
162210	5/16"	50	4 lbs
162215	3/8"	50	4 lbs
162220	1/2"	50	4 lbs



Rubber Tarp Snubbers with Hooks

Item No	Length/With Hooks	Qty/Ctn	Approx Wt/Ctn
163005	10" - 14"	50	10 lbs
163010	15" - 19"	50	12 lbs
163015	21" - 25"	50	14 lbs
163020	31" - 35"	50	19 lbs
163025	41" - 45"	50	25 lbs



Black Rubber Rope - Solid

Item No	Size	Ft/Coil	Approx Wt/Coil
163108	3/8"	150'	9 lbs
163113	7/16"	150'	11 lbs



Hooks

Item No	Description	Pack	Approx Wt/Ctn
163105	"J" Hooks	100/Ctn	5 lbs
163107	"S" Hooks	100/Bg	5 lbs



Twisted Nylon Seine Twine

Top grade twisted from 100% filament nylon. Excellent abrasion resistant, rot, mildew, petroleum products and most common chemicals. Retail packaged, sold by the carton, each labeled, shrink wrapped and UPC coded. One dozen per carton.

Item No	Tube Weight	Color	Size	Length	Approx Wt/Ctn
135015	4 oz	White	#9	525'	3 lbs
135025	4 oz	White	#15	375'	3 lbs
135055	4 oz	Yellow	#15	375'	3 lbs
135050	4 oz	White	#36	120'	3 lbs
135031	4 oz	White	#18	275'	3 lbs
135032	4 oz	Flour-Pink	#18	275'	3 lbs
135034	4 oz	Flour-Orange	#18	275'	3 lbs
135059	4 oz	Flour-Yellow	#18	275'	3 lbs
135061	4 oz	Yellow	#18	275'	3 lbs
135105	8 oz	Yellow	#15	570'	6 lbs
135071	8 oz	White	#18	550'	6 lbs
135072	8 oz	Flour-Pink	#18	550'	6 lbs
135074	8 oz	Flour-Orange	#18	550'	6 lbs
135108	8 oz	Flour-Yellow	#18	550'	6 lbs
135109	8 oz	Yellow	#18	550'	6 lbs
135124	16 oz	Flour-Orange	#18	1,100'	12 lbs
135126	16 oz	White	#18	1,100'	12 lbs
135127	16 oz	Flour-Pink	#18	1,100'	12 lbs
135139	16 oz	Flour-Yellow	#18	1,100'	12 lbs
135141	16 oz	Yellow	#18	1,100'	12 lbs

Braided Nylon Seine Twine

Top grade 100% filament nylon braided into a strong twine that ties easily and holds knots securely. Excellent resistance to abrasion, rot, mildew, petroleum products and common chemicals. Retail packaged, sold by the carton, each labeled, shrink wrapped and UPC coded. One dozen per carton.

Item No	Tube Weight	Color	Size	Length	Approx Wt/Ctn
134004	4 oz	White	#18	275'	3 lbs
134008	4 oz	Yellow	#18	275'	3 lbs
134130	4 oz	Flour-Yellow	#18	275'	3 lbs
134135	4 oz	Flour-Pink	#18	275'	3 lbs
134140	4 oz	Flour-Orange	#18	275'	3 lbs
134009	8 oz	White	#18	550'	6 lbs
134013	8 oz	Yellow	#18	550'	6 lbs
134132	8 oz	Flour-Yellow	#18	550'	6 lbs
134137	8 oz	Flour-Pink	#18	550'	6 lbs
134142	8 oz	Flour-Orange	#18	550'	6 lbs
134014	16 oz	Yellow	#18	1,100'	12 lbs
134016	16 oz	Green	#18	1,100'	12 lbs
134018	16 oz	White	#18	1,100'	12 lbs
134129	16 oz	Flour-Green	#18	1,100'	12 lbs
134134	16 oz	Flour-Yellow	#18	1,100'	12 lbs
134139	16 oz	Flour-Pink	#18	1,100'	12 lbs
134144	16 oz	Flour-Orange	#18	1,100'	12 lbs

Lumber Braid

Item No	Approx Width	Ft/Lb	Approx Tensile	Tubes /Ctn	Approx Wt/Ctn
159011	3/8"	215'	210 lbs	6	75 lbs.



PRO SERIES™ Synthetic Tying Twine - Spiral Wrap

Item No	Ft/Lb	Color	Approx Tensile	Approx Knot/Break
027002	350'	White	350 lbs	240 lbs
027003	450'	White	310 lbs	190 lbs
027007	550'	White	250 lbs	155 lbs
027012	650'	White	200 lbs	125 lbs
027010	750'	White	180 lbs	110 lbs
027022	850'	White	160 lbs	100 lbs
027032	1,050'	White	135 lbs	80 lbs
027037	1,250'	White	110 lbs	70 lbs
027008	550'	Black	250 lbs	155 lbs
027035	1,050'	Black	135 lbs	80 lbs
027038	1,250'	Black	110 lbs	70 lbs



2 and 3 ply twines available. 4 boxes per master carton.

PRO SERIES™ Synthetic Tying Twine - Split Film

Item No	Ft/Lb	Color	Approx Tensile	Approx Knot/Break
025001	350'	White	350 lbs	240 lbs
025003	450'	White	260 lbs	190 lbs
025007	550'	White	210 lbs	155 lbs
025012	650'	White	180 lbs	125 lbs
025017	750'	White	150 lbs	110 lbs
025022	850'	White	135 lbs	100 lbs
025032	1,050'	White	110 lbs	80 lbs
025042	1,250'	White	90 lbs	70 lbs
025008	550'	Black	210 lbs	155 lbs
025035	1,050'	Black	110 lbs	80 lbs
025042	1,250'	Black	90 lbs	70 lbs



2 and 3 ply twines available. 4 boxes per master carton.

PRO LOK™ Tomato Twine

Item No	Ft/Lb	Color	Approx Tensile	Wt/Tube	Tubes/Ctn
031050	1,890'	Pink	65 lbs	3.2 lbs	12
031055	1,890'	Black	65 lbs	3.2 lbs	12
031100	1,890'	Black	65 lbs	3 lbs	1
031105	1,890'	Pink	65 lbs	3 lbs	1



Synthetic Tree Rope

Item No	Ply	Ft/Lb	Color	Approx Tensile	Tubes/Ctn
030010	1-Ply	205'	Black w/Orange	703 lbs	8
030015	1-Ply	205'	Black w/Orange	703 lbs	8
030020	1-Ply	205'	Black	703 lbs	8
030025	1-Ply	205'	Black	703 lbs	8
030050	3-Ply	155'	Orange	820 lbs	9





Synthetic Baler Twine

Item No	Ft/ Ctn	Ft/ Lb	Knot Strength	Tubes/ Ctn	Ctns/ Pallet	Wt/ Ctn
037050	20,000'	1,250'	110 lbs	2	50	15.0 lbs
037051	20,000'	1,111'	130 lbs	2	50	17.0 lbs
037010	9,000'	550'	130 lbs	2	60	16.0 lbs
037005	7,200'	425'	170 lbs	2	60	17.0 lbs
037015	9,600'	425'	170 lbs	2	40	22.0 lbs
037030	5,000'	336'	210 lbs	1	48	14.0 lbs
037095	6,500'	335'	210 lbs	1	48	18.2 lbs
037035	6,500'	325'	240 lbs	1	48	20.2 lbs
037142	8,500'	359'	245 lbs	1	48	23.7 lbs
037040	6,500'	296'	280 lbs	1	48	22.0 lbs
037004	7,000'	296'	280 lbs	1	48	23.7 lbs
037032	6,000'	270'	320 lbs	1	48	22.3 lbs
037056	6,500'	270'	320 lbs	1	48	24.1 lbs
037020	4,000'	211'	350 lbs	1	48	19.0 lbs
037091	4,850'	211'	350 lbs	1	48	23.0 lbs
037027	4,000'	191'	440 lbs	1	48	21.0 lbs
037029	4,000'	174'	500 lbs	1	48	23.0 lbs
037121	3,900'	169'	550 lbs	1	48	23.1 lbs
037018	3,000'	136'	600 lbs	1	48	22.0 lbs

Other sizes and colors available.

Sisal Baler Twine - Gold

Item No	Ft/ Bale	Ft/ Lb	Tensile	Knot Strength	Tubes/ Ctn	Bales/ Pallet	Wt/ Bale
038005	9,000'	231'	350 lbs	130 lbs	2	50	40 lbs
038010	7,200'	185'	425 lbs	160 lbs	2	50	40 lbs
038020	16,000'	410'	190 lbs	60 lbs	2	50	40 lbs

Untreated twine available.

Sisal Baler Twine - Green

Item No	Ft/ Bale	Ft/ Lb	Tensile	Knot Strength	Tubes/ Ctn	Bales/ Pallet	Wt/ Bale
038013	9,000'	231'	350 lbs	130 lbs	2	50	40 lbs
038012	7,200'	185'	425 lbs	160 lbs	2	50	40 lbs
038021	16,000'	410'	190 lbs	60 lbs	2	50	40 lbs

Untreated twine available.

Baler Net Wrap

Item No	Width	Length
052410	48"	9,840'
052430	64"	6,560'
052440	64"	7,000'
052450	67"	6,560'

Silage Wrap

Item No	Width	Length	Gauge	Color
052550	20"	6,000'	1.0 mil	White
052535	30"	5,000'	1.0 mil	White

Sisal Twine

Item No	Ply	Approx Yield/Lb	Approx Tensile	Put-Up
042005	1-Ply	360'	200 lbs	6/#10 Tubes
042121	1-Ply	300'	240 lbs	6/#10 Tubes
042010	2-Ply	176'	360 lbs	6/#10 Tubes
042122	2-Ply	176'	425 lbs	6/#10 Tubes
042015	3-Ply	88'	600 lbs	6/#10 Tubes
042123	3-Ply	88'	600 lbs	6/#10 Tubes
042103	1-Ply	300'	240 lbs	10/#5 Tubes
042105	2-Ply	300'	425 lbs	10/#5 Tubes
042120	2-Ply	405'	425 lbs	10/#5 Tubes
042107	3-Ply	88'	600 lbs	10/#5 Tubes
042125	1-Ply	300'	240 lbs	10/#10 Tubes
042110	1-Ply	300'	240 lbs	10/#10 Tubes
042112	2-Ply	88'	425 lbs	10/#10 Tubes
042128	2-Ply	176'	425 lbs	10/#10 Tubes
042114	3-Ply	88'	600 lbs	10/#10 Tubes
042130	3-Ply	88'	600 lbs	10/#10 Tubes
042116	4-Ply	72'	850 lbs	10/#10 Tubes
042117	5-Ply	60'	1,095 lbs	10/#10 Tubes
042118	6-Ply	48'	1,400 lbs	10/#10 Tubes
042035	1-Ply	360'	200 lbs	2/#20 Tubes
042040	2-Ply	176'	360 lbs	2/#20 Tubes
042050	1-Ply	360'	200 lbs	#50 S/E Tubes
042055	2-Ply	176'	360 lbs	#50 S/E Tubes
042060	3-Ply	88'	600 lbs	#50 S/E Tubes
042090	2-Ply	146'	425 lbs	#50 S/E Tubes
042065	1-Ply	360'	200 lbs	#50 S/E Reels
042070	2-Ply	176'	360 lbs	#50 S/E Reels
042200	3-Ply	88'	240 lbs	#50 S/E Reels
042202	3-Ply	88'	700 lbs	#50 S/E Reels
042218	1-Ply	300'	240 lbs	#100 M/E Coils
042225	2-Ply	194'	310 lbs	#100 M/E Coils
042220	2-Ply	146'	425 lbs	#100 M/E Coils
042265	2-Ply	240'	600 lbs	#100 M/E Coils

Sisal Bull Rope

Item No	Ply	Ft/Lb	Put-Up
044030	1-Ply	225'	#50 M/E Coil

Sisal Binder Twine

Item No	Ply	Ft/Lb	Put-Up
040005	1-Ply	500'	10-#5 Tubes/Bale
040010	1-Ply	500'	10-#5 Balls/Bale
040020	1-Ply	500'	10-#4 Tubes/Bale UPC

Tarred Sisal Tree Rope

Item No	Ply	Ft/Lb	Put-Up
044020	4-Ply	100'	10-#5 Balls/Bale

Sisal Copper Treated Twine

Item No	Ply	Ft/Lb	Put-Up
044003	1-Ply	185'	10-#5 Balls/Bale
044005	1-Ply	300'	10-#5 Balls/Bale
004010	2-Ply	146'	10-#5 Balls/Bale
004015	3-Ply	88'	10-#5 Balls/Bale





Cotton Twine			
Ply	4's Yarn 25 / #2 Cones	8's Yarn 20 / #2-1/2 Cones	8's Yarn 12 / #5 Cones
3-ply	006006	004060	
4-ply	006011	004062	
6-ply	006016	004064	004204
8-ply	006021	004066	004207
10-ply	006026	004068	004212
12-ply	006031	004070	004217
16-ply	006036	004072	004222
20-ply	006038	004074	004224
24-ply	006041	004076	004226
36-ply	006043		

Sewing Twine Cotton/Poly Blend - 12's Yarn			
Item No	Ply	Cone Size	Cones/Ctn
015015	4-Ply	8 oz	32
015020	5-Ply	8 oz	32
015035	4-Ply	2-1/2 lbs	18
015040	5-Ply	2-1/2 lbs	18
015061	4-Ply	20 lbs	4
015066	5-Ply	20 lbs	4
015102	5-Ply	20 lbs	4

100% Polyester - 13's Yarn			
Item No	Ply	Cone Size	Cones/Ctn
015085	4-Ply	8 oz	32
015090	4-Ply	2-1/2 lbs	18
015101	4-Ply	20 lbs	4
015201	4-Ply	20 lbs	4

Sacking Twine: Polished Cotton - 4's Yarn					
Item No	Size	Ply	Ft/Lb	Approx Tensile	Put-Up
016005	#18	6-Ply	1,575'	29 lbs	#50 M/E Reel
016015	#24	8-Ply	1,190'	40 lbs	#50 M/E Reel

Sacking Twine: Unpolished Cotton - 4's Yarn					
Item No	Size	Ply	Ft/Lb	Approx Tensile	Put-Up
017015	#18	6 Ply	1,650'	29 lbs	#50 M/E Reel
017021	#24	8 Ply	1,200'	40 lbs	#50 M/E Tube
017025	#48	12 Ply	800'	54 lbs	#50 M/E Reel

Twine Knives		
Item No	Size	Qty/Box
068050	#6	12
068055	#7	12
068060	#8	12
068065	#9	12
068070	#10	12
068075	#11	12
068080	#12	12
068085	#13	12
068090	#14	12
068095	#15	12

This item is sold by the dozen only.



Polypropylene Mini-Coils

Item No	Diameter	Length	Coils/Ctn	Wt/Ctn
150005	1/4"	50'	12	7 lbs
150010	1/4"	100'	12	15 lbs
150015	3/8"	50'	12	17 lbs
150020	3/8"	100'	12	34 lbs
150025	1/2"	50'	12	28 lbs
150030	1/2"	100'	12	56 lbs



California Truck Rope Mini-Coils

Item No	Diameter	Length	Coils/Ctn	Wt/Ctn
152015	3/8"	50'	12	17 lbs
152020	3/8"	100'	12	34 lbs
152025	1/2"	50'	12	28 lbs
152030	1/2"	100'	12	54 lbs



Nylon Mini-Coils

Item No	Diameter	Length	Coils/Ctn	Wt/Ctn
151005	1/4"	50'	12	9 lbs
151010	1/4"	100'	12	18 lbs
151015	3/8"	50'	12	21 lbs
151020	3/8"	100'	12	42 lbs
151025	1/2"	50'	12	39 lbs
151030	1/2"	100'	6	39 lbs



Pure Manila Mini-Coils

Item No	Diameter	Length	Coils/Ctn	Wt/Ctn
156005	1/4"	50'	24	24 lbs
156010	1/4"	100'	12	24 lbs
156012	1/4"	100'	24	48 lbs
156015	3/8"	50'	12	24 lbs
156023	3/8"	100'	12	48 lbs
156025	1/2"	50'	6	23 lbs
156035	1/2"	100'	6	45 lbs



Sisal Mini-Coils

Item No	Diameter	Length	Coils/Ctn	Wt/Ctn
157010	1/4"	50'	48	40 lbs
157020	1/4"	100'	48	80 lbs
157030	3/8"	50'	48	84 lbs
157035	3/8"	100'	24	84 lbs
157040	1/2"	50'	24	84 lbs
157045	1/2"	100'	12	84 lbs





Jute

Jute is used for decorating, bag closure, packaging and used widely in the nursery industry. Natural color jute is also a good substitute for hemp.

Item No	Color	Ply	Size	Ft/Lbs	Ctn Pack
048045	Natural	4-Ply	72 lbs	140'	6-#10 Tubes
048160	Natural	3-Ply	28 lbs	510'	6-#10 Tubes
048165	Natural	4-Ply	28 lbs	375'	6-#10 Tubes
048174	Natural	2-Ply	28 lbs	700'	#50 M/E Reel
048180	Natural	3-Ply	28 lbs	510'	#50 M/E Reel
048181	Natural	4-Ply	28 lbs	375'	#50 M/E Reel
048190	Natural	2-Ply	14 lbs	1,500'	6-#10 Tubes
048195	Natural	2-Ply	14 lbs	1,500'	#50 M/E Reel

Jute Tubes

Natural fiber, biodegradable twine, available in easy to handle light weight tubes.

Item No	Color	Ply	Ft/Tube	Put-Up	Approx Wt/Doz
045150	Natural	3-Ply	228'	1/2 # Tubes	6 lbs
045155	Green	3-Ply	228'	1/2 # Tubes	6 lbs

Sold by the dozen.

Sisal Balls

General purpose natural fiber twine, available in natural or green.

Item No	Color	Ply	Ft/Ball	Put-Up	Approx Wt/Doz
045115	Natural	1-Ply	450'	1/2 # Balls	6 lbs
045120	Green	1-Ply	450'	1/2 # Balls	6 lbs

Sold by the dozen.

Twisted Cotton Cable Cord - Poly Wrapped Balls

A natural biodegradable twine used for seine twine, staggng twine, trot line, chalk and mason line.

Item No	Size	Ply	Ft/Ball	Put-Up	Approx Wt/Doz
137002	#24	8-Ply	280'	1/2 # Balls	6 lbs
137009	#36	10-Ply	220'	1/2 # Balls	6 lbs
137010	#48	12-Ply	180'	1/2 # Balls	6 lbs

Sold by the dozen.

Polished Cotton - Poly Wrapped Balls

Strong, durable, easy on the hands. Used for package bundling, wrapping and heavy duty tying.

Item No	Size	Ply	Ft/Ball	Put-Up	Approx Wt/Doz
010060	#24	8-Ply	595'	1/2 # Balls	6 lbs
010070	#36	10-Ply	475'	1/2 # Balls	6 lbs
010080	#48	12-Ply	395'	1/2 # Balls	6 lbs
010090	#60	16-Ply	305'	1/2 # Balls	6 lbs

Sold by the dozen.

Rope Measuring Meter

Accurately measures synthetic and natural fiber cordage from 5/32" to 3/4" diameter and has a digital readout.

Item No	Description
068410	Rope Measuring Meter.



Desk Model Rope Cutter

Cuts and fuses all synthetic ropes. Positive On/Off switch, metal housing, 110 Volt AC, and will cut rope up to 2-3/8" in diameter.

Item No	Description
068007	Electric Desk Model, heats in 30 seconds
068011	Replacement blade for desk model



Hand Held Rope Cutting Gun

Heats quickly and is portable for lightweight cutting. This has 150 WATTS and will cut rope up to 1-1/2" in diameter.

Item No	Description
068005	Heats quickly, one blade included.
068010	Replacement blade for hand held model.



Plastic Splicing Fids - for Hollow Braid Poly Rope

Double braid splicing fids and pushers are available upon request.

Item No	Description	Qty/Card
068155	1/4"	10
068165	3/8"	10
068170	1/2"	10





Specifications

Nominal Size (1)			Polypropylene 3 Strand & 8 Braid			Poly/Dac™ 3 Strand & 8 Braid			Nylon 3 Strand & 8 Braid		
			Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)
Approx Dia	Size # (Circ)	Approx mm	Approx Lbs/100'	Lbs	Range Ratio	Approx Lbs/100'	Lbs	Range Ratio	Approx Lbs/100'	Lbs	Range Ratio
3/16"	5/8"	5	0.65	650	5 - 12 to 1				0.89	880	5 - 12 to 1
1/4"	3/4"	6	1.15	1,125	5 - 12 to 1	1.6	1,200	5 - 12 to 1	1.57	1,485	5 - 12 to 1
5/16"	1"	8	1.80	1,710	5 - 12 to 1	2.5	1,870	5 - 12 to 1	2.45	2,295	5 - 12 to 1
3/8"	1-1/8"	10	2.60	2,430	5 - 12 to 1	3.6	2,700	5 - 12 to 1	3.55	3,240	5 - 12 to 1
7/16"	1-1/4"	11	3.50	3,150	5 - 12 to 1	4.8	3,500	5 - 12 to 1	4.80	4,320	5 - 12 to 1
1/2"	1-1/2"	12	4.60	3,780	5 - 12 to 1	6.2	4,400	5 - 12 to 1	6.30	5,670	5 - 12 to 1
9/16"	1-3/4"	14	5.90	4,590	5 - 12 to 1	7.9	5,200	5 - 12 to 1	8.00	7,200	5 - 12 to 1
5/8"	2"	17	7.20	5,580	5 - 12 to 1	9.5	6,100	5 - 12 to 1	9.90	8,910	5 - 12 to 1
3/4"	2-1/4"	18	10.4	7,650	5 - 12 to 1	13.5	8,400	5 - 12 to 1	14.30	12,780	5 - 12 to 1
13/16"	2-1/2"	20	12.70	8,900	5 - 12 to 1						
7/8"	2-3/4"	22	14.2	10,350	5 - 12 to 1	18	11,125	5 - 12 to 1	19.50	17,280	5 - 12 to 1
1"	3"	24	18.0	12,825	5 - 12 to 1	21.8	13,175	5 - 12 to 1	25.30	22,230	5 - 12 to 1
1-1/8"	3-1/2"	28	22.8	16,000	5 - 12 to 1	27.1	16,325	5 - 12 to 1	32.20	28,260	5 - 12 to 1
1-1/4"	3-3/4"	30	27.6	19,350	5 - 12 to 1	33.4	19,900	5 - 12 to 1	39.70	34,830	5 - 12 to 1
1-5/16"	4"	32	30.4	21,150	5 - 12 to 1	36.5	21,950	5 - 12 to 1	43.70	38,250	5 - 12 to 1
1-1/2"	4-1/2"	36	39.4	27,350	5 - 12 to 1	47	28,250	5 - 12 to 1	57.00	48,600	5 - 12 to 1
1-5/8"	5"	40	46.0	31,950	5 - 12 to 1	55	32,950	5 - 12 to 1	67.30	57,375	5 - 12 to 1
1-3/4"	5-1/2"	44	53.0	36,900	5 - 12 to 1	62	36,850	5 - 12 to 1	78.00	66,150	5 - 12 to 1
2"	6"	48	69.0	46,800	5 - 12 to 1	81	48,050	5 - 12 to 1	100.00	84,600	5 - 12 to 1
2-1/8"	6-1/2"	52	78.0	52,650	5 - 12 to 1	91	53,950	5 - 12 to 1	113.00	95,400	5 - 12 to 1
2-1/4"	7"	56	88.0	59,400	5 - 12 to 1	101	59,950	5 - 12 to 1	127.00	107,100	5 - 12 to 1
2-1/2"	7-1/2"	60	107	72,000	5 - 12 to 1	124	73,550	5 - 12 to 1	157.00	131,400	5 - 12 to 1
2-5/8"	8"	64	120	80,500	5 - 12 to 1	136	80,650	5 - 12 to 1	173.00	144,000	5 - 12 to 1
2-3/4"	8-1/2"	68	141	94,500	5 - 12 to 1	161	95,400	5 - 12 to 1	208.00	171,000	5 - 12 to 1
3"	9"	72	153	102,600	5 - 12 to 1	174	102,900	5 - 12 to 1	226.00	185,400	5 - 12 to 1
3-1/4"	10"	80	186	121,500	5 - 12 to 1	212	122,800	5 - 12 to 1	275.00	224,100	5 - 12 to 1
3-1/2"	11"	88	223	144,000	5 - 12 to 1	250	144,800	5 - 12 to 1	329.00	267,300	5 - 12 to 1
4"	12"	96	272	171,900	5 - 12 to 1	300	171,000	5 - 12 to 1	400.00	324,000	5 - 12 to 1
4-1/4"	13"	104	315	198,000	5 - 12 to 1	345	195,800	5 - 12 to 1	450.00	369,000	5 - 12 to 1
4-1/2"	14"	112	360	223,200	5 - 12 to 1	395	224,800	5 - 12 to 1	525.00	418,500	5 - 12 to 1
5"	15"	120	420	256,500	5 - 12 to 1	455	254,700	5 - 12 to 1	610.00	480,600	5 - 12 to 1
5-5/16"	16"	128	474	287,100	5 - 12 to 1	506	282,600	5 - 12 to 1	685.00	532,800	5 - 12 to 1
5-5/8"	17"	136	531	319,500	5 - 12 to 1	562	312,300	5 - 12 to 1	767.00	589,500	5 - 12 to 1
6"	18"	144	603	358,200	5 - 12 to 1	635	351,000	5 - 12 to 1	870.00	660,600	5 - 12 to 1

- (1) Diameter is approximate and is actually determined by linear density. (Pounds per 100')
- (2) Linear Density is considered average weight per 100'. Tolerances: 3/16" - 5/16" diameters inclusive +plus or -minus 10%; 3/8" - 9/16" inclusive +plus or -minus 8%; and 5/8" and up +plus or -minus 5%.
- (3) New rope Minimum Breaking Strength is based on data from a number of manufacturers and represents a value of 2 standard deviations below the mean, established by regression analysis.
- (4) For critical applications where life or limb of Dynamic Loading is present, use the higher ratio division.
Example: 10,000 pounds ÷ 12 = 833 pounds working load ratio.



Specifications

Nominal Size (1)			Polyester 3 Strand & 8 Braid			Manila 3 Strand			CWC Steel Pro™ Hi Stretch 3 Strand & 8 Braid		
			Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)
Approx Dia	Size # (Circ)	Approx mm	Approx Lbs/100'	Lbs	Range Ratio	Approx Lbs/100'	Lbs	Range Ratio	Approx Lbs/100'	Lbs	Range Ratio
3/16"	5/8"	5	1.10	765	5 - 12 to 1	1.37	405	5 - 12 to 1			
1/4"	3/4"	6	1.95	1,315	5 - 12 to 1	1.82	540	5 - 12 to 1	1.17	1,673	5 - 12 to 1
5/16"	1"	8	3.05	2,050	5 - 12 to 1	2.64	900	5 - 12 to 1	2.54	2,795	5 - 12 to 1
3/8"	1-1/8"	10	4.35	2,900	5 - 12 to 1	3.79	1,215	5 - 12 to 1	2.68	3,686	5 - 12 to 1
7/16"	1-1/4"	11	5.9	3,915	5 - 12 to 1	4.87	1,575	5 - 12 to 1	3.35	4,413	5 - 12 to 1
1/2"	1-1/2"	12	7.7	5,085	5 - 12 to 1	6.96	2,385	5 - 12 to 1	4.69	5,640	5 - 12 to 1
9/16"	1-3/4"	14	9.8	6,435	5 - 12 to 1	9.63	3,105	5 - 12 to 1	6.70	7,629	5 - 12 to 1
5/8"	2"	17	12.0	7,825	5 - 12 to 1	12.7	3,960	5 - 12 to 1	8.04	9,119	5 - 12 to 1
3/4"	2-1/4"	18	17.2	11,200	5 - 12 to 1	15.9	4,860	5 - 12 to 1	10.72	11,541	5 - 12 to 1
13/16"	2-1/2"	20				18.6	5,850	5 - 12 to 1			
7/8"	2-3/4"	22	23.4	15,225	5 - 12 to 1	21.4	6,930	5 - 12 to 1	16.08	17,153	5 - 12 to 1
1"	3"	24	30.4	19,775	5 - 12 to 1	25.7	8,100	5 - 12 to 1	20.09	20,960	5 - 12 to 1
1-1/8"	3-1/2"	28	38.5	24,800	5 - 12 to 1	34.3	10,800	5 - 12 to 1	25.45	26,149	5 - 12 to 1
1-1/4"	3-3/4"	30	46.5	29,800	5 - 12 to 1	39.7	12,150	5 - 12 to 1	30.81	31,623	5 - 12 to 1
1-5/16"	4"	32	51	32,500	5 - 12 to 1	45.6	13,500	5 - 12 to 1			
1-1/2"	4-1/2"	36	67	42,200	5 - 12 to 1	57.0	16,650	5 - 12 to 1	34.83	35,395	5 - 12 to 1
1-5/8"	5"	40	78	49,250	5 - 12 to 1	71.1	20,250	5 - 12 to 1	42.87	43,589	5 - 12 to 1
1-3/4"	5-1/2"	44	91	57,000	5 - 12 to 1	85.0	23,850	5 - 12 to 1	54.93	55,981	5 - 12 to 1
2"	6"	48	117	72,000	5 - 12 to 1	102	27,900	5 - 12 to 1	61.35	73,234	5 - 12 to 1
2-1/8"	6-1/2"	52	133	81,000	5 - 12 to 1	120	32,400	5 - 12 to 1	72.60	86,268	5 - 12 to 1
2-1/4"	7"	56	149	90,500	5 - 12 to 1	139	36,900	5 - 12 to 1	85.14	101,142	5 - 12 to 1
2-1/2"	7-1/2"	60	184	110,000	5 - 12 to 1	164	42,300	5 - 12 to 1	100.16	118,820	5 - 12 to 1
2-5/8"	8"	64	203	121,000	5 - 12 to 1	182	46,800	5 - 12 to 1	113.93	134,516	5 - 12 to 1
2-3/4"	8-1/2"	68	243	144,000	5 - 12 to 1	215	54,900	5 - 12 to 1	130.21	153,591	5 - 12 to 1
3"	9"	72	264	156,000	5 - 12 to 1	230	57,500	5 - 12 to 1	166.52	196,529	5 - 12 to 1
3-1/4"	10"	80	323	188,500	5 - 12 to 1	284	69,500	5 - 12 to 1	206.58	237,502	5 - 12 to 1
3-1/2"	11"	88	387	225,000	5 - 12 to 1	349	81,900	5 - 12 to 1	246.65	280,313	5 - 12 to 1
4"	12"	96	470	270,000	5 - 12 to 1	414	94,500	5 - 12 to 1	291.72	324,476	5 - 12 to 1
4-1/4"	13"	104	547	310,000	5 - 12 to 1						
4-1/2"	14"	112	630	355,000	5 - 12 to 1						
5"	15"	120	732	410,000	5 - 12 to 1						
5-5/16"	16"	128	825	459,000	5 - 12 to 1						
5-5/8"	17"	136	925	508,500	5 - 12 to 1						
6"	18"	144	1,050	567,000	5 - 12 to 1						

- (1) Diameter is approximate and is actually determined by linear density. (Pounds per 100')
- (2) Linear Density is considered average weight per 100'. Tolerances: 3/16" - 5/16" diameters inclusive +plus or -minus 10%; 3/8" - 9/16" inclusive +plus or -minus 8%; and 5/8" and up +plus or -minus 5%.
- (3) New rope Minimum Breaking Strength is based on data from a number of manufacturers and represents a value of 2 standard deviations below the mean, established by regression analysis.
- (4) For critical applications where life or limb of Dynamic Loading is present, use the higher ratio division.
Example: 10,000 pounds ÷ 12 = 833 pounds working load ratio.



Specifications

Nominal Size (1)			CWC Blue Steel™ Super Strong Poly 3 Std & 8 Bd			CWC Ice Blue™ Combo Super Strong Blended 3 Std & 8 Bd			Combo Plus™ - 3 Std & **8 Bd Plus-3™ - 3 Std & **8 Bd		
			Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)
Approx Dia	Size # (Circ)	Approx mm	Approx Lbs/100'	Lbs	Range Ratio	Approx Lbs/100'	Lbs	Range Ratio	Approx Lbs/100'	Lbs	Range Ratio
3/16"	5/8"	5	.67	950	5 - 12 to 1						
1/4"	3/4"	6	1.17	1,600	5 - 12 to 1				1.6	1,375	5 - 12 to 1
5/16"	1"	8	2	3,100	5 - 12 to 1				2.5	2,160	5 - 12 to 1
3/8"	1-1/8"	10	2.5	3,800	5 - 12 to 1	3.3	4,040	5 - 12 to 1	4.2	3,240	5 - 12 to 1
7/16"	1-1/4"	11	3	4,700	5 - 12 to 1	4.5	5,090	5 - 12 to 1	5.5	4,025	5 - 12 to 1
1/2"	1-1/2"	12	4.5	6,600	5 - 12 to 1	5.8	6,240	5 - 12 to 1	6.6	5,075	5 - 12 to 1
9/16"	1-3/4"	14	6	8,900	5 - 12 to 1	7.4	7,830	5 - 12 to 1	8.0	6,000	5 - 12 to 1
5/8"	2"	17	7.7	11,000	5 - 12 to 1	9.5	9,800	5 - 12 to 1	9.6	7,000	5 - 12 to 1
3/4"	2-1/4"	18	9.83	13,900	5 - 12 to 1	12.7	12,700	5 - 12 to 1	13.5	9,600	5 - 12 to 1
7/8"	2-3/4"	22	14.7	20,100	5 - 12 to 1	18	17,470	5 - 12 to 1	18	12,800	5 - 12 to 1
1"	3"	24	17.3	23,100	5 - 12 to 1	22	21,300	5 - 12 to 1	21.8	15,100	5 - 12 to 1
1-1/8"	3-1/2"	28	23.7	30,000	5 - 12 to 1	28.8	28,000	5 - 12 to 1	27.1	18,800	5 - 12 to 1
1-1/4"	3-3/4"	30	26.7	32,900	5 - 12 to 1	33.3	34,200	5 - 12 to 1	33.4	22,900	5 - 12 to 1
1-1/2"	4-1/2"	36	39	46,100	5 - 12 to 1	50.5	47,500	5 - 12 to 1	47	32,500	5 - 12 to 1
1-5/8"	5"	40	48	55,600	5 - 12 to 1	59.0	60,420		55	37,900	5 - 12 to 1
1-3/4"	5-1/2"	44	58.7	66,500	5 - 12 to 1	70.5	66,300	5 - 12 to 1	62	42,400	5 - 12 to 1
2"	6"	48	75.2	83,500	5 - 12 to 1	88.7	82,900	5 - 12 to 1	81	55,300	5 - 12 to 1
2-1/8"	6-1/2"	52	84.3	90,725	5 - 12 to 1	100.9	94,240	5 - 12 to 1	91	62,000	5 - 12 to 1
2-1/4"	7"	56	101.5	107,100	5 - 12 to 1	120.3	112,500	5 - 12 to 1	101	68,900	5 - 12 to 1
2-1/2"	7-1/2"	60	115.8	122,300	5 - 12 to 1	134.7	126,000	5 - 12 to 1	124	84,600	5 - 12 to 1
2-5/8"	8"	64	130.9	137,750	5 - 12 to 1	151.7	157,000	5 - 12 to 1			5 - 12 to 1
2-3/4"	8-1/2"	68	155.7	162,165	5 - 12 to 1	178.6	175,940	5 - 12 to 1			5 - 12 to 1
3"	9"	72	169	176,000	5 - 12 to 1	190.8	178,400	5 - 12 to 1			5 - 12 to 1
3-1/4"	10"	80	198	226,700	5 - 12 to 1	234.6	238,830	5 - 12 to 1			5 - 12 to 1
3-1/2"	11"	88	233.5	241,680	5 - 12 to 1	282.4	289,085	5 - 12 to 1			5 - 12 to 1
4"	12"	96	283	319,800	5 - 12 to 1	337.7	341,430	5 - 12 to 1			5 - 12 to 1
4-1/4"	13"	104									5 - 12 to 1
5"	15"	120			5 - 12 to 1						5 - 12 to 1

- (1) Diameter is approximate and is actually determined by linear density. (Pounds per 100')
- (2) Linear Density is considered average weight per 100'. Tolerances: 3/16" - 5/16" diameters inclusive +plus or -minus 10%; 3/8" - 9/16" inclusive +plus or -minus 8%; and 5/8" and up +plus or -minus 5%.
- (3) New rope Minimum Breaking Strength is based on data from a number of manufacturers and represents a value of 2 standard deviations below the mean, established by regression analysis.
- (4) For critical applications where life or limb of Dynamic Loading is present, use the higher ratio division.
Example: 10,000 pounds ÷ 12 = 833 pounds working load ratio.



Specifications

Nominal Size (1)			CWC Blue Steel™ Copolymer 12 Strand			Spectra® 12 Strand			Plasma® 12 Strand		
			Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)	Linear Density (2)	Min Breaking Force (3)	Working Load Ratio (4)
Approx Dia	Size # (Circ)	Approx mm	Approx Lbs/100'	Lbs	Range Ratio	Approx Lbs/100'	Lbs	Range Ratio	Approx Lbs/100'	Lbs	Range Ratio
1/4"	3/4"	6				1.6	6,000	5 - 12 to 1	1.6	8,000	5 - 12 to 1
5/16"	1"	8				2.6	9,000	5 - 12 to 1	2.5	11,700	5 - 12 to 1
3/8"	1-1/8"	10				3.7	13,900	5 - 12 to 1	3.7	17,500	5 - 12 to 1
7/16"	1-1/4"	11				4.2	14,800	5 - 12 to 1	4.2	21,000	5 - 12 to 1
1/2"	1-1/2"	12	5.40	6,900	5 - 12 to 1	6.4	22,500	5 - 12 to 1	6.4	31,300	5 - 12 to 1
9/16"	1-3/4"	14	7.35	9,400	5 - 12 to 1	7.9	27,700	5 - 12 to 1	7.9	37,900	5 - 12 to 1
5/8"	2"	17	9.60	12,200	5 - 12 to 1	10.6	36,600	5 - 12 to 1	10.6	51,400	5 - 12 to 1
3/4"	2-1/2"	18	12.50	15,900	5 - 12 to 1	13.3	43,300	5 - 12 to 1	13.3	68,500	5 - 12 to 1
7/8"	2-3/4"	22	17.00	21,200	5 - 12 to 1	19.6	61,000	5 - 12 to 1	19.6	92,600	5 - 12 to 1
1"	3"	24	19.40	25,200	5 - 12 to 1	23.4	72,000	5 - 12 to 1	23.4	110,000	5 - 12 to 1
1-1/8"	3-1/2"	28	26.50	33,500	5 - 12 to 1	31.9	91,800	5 - 12 to 1	31.9	147,000	5 - 12 to 1
1-1/4"	3-3/4"	30	30.30	37,000	5 - 12 to 1	36.2	102,600	5 - 12 to 1	36.2	165,000	5 - 12 to 1
1-5/16"	4"	32	34.30	42,800	5 - 12 to 1	41.7	114,300	5 - 12 to 1	41.7	196,000	5 - 12 to 1
1-1/2"	4-1/2"	36	43.10	53,200	5 - 12 to 1	51.7	141,300	5 - 12 to 1	51.7	221,000	5 - 12 to 1
1-5/8"	5"	40	53.10	65,600	5 - 12 to 1	65.7	167,400	5 - 12 to 1	65.7	291,000	5 - 12 to 1
1-3/4"	5-1/2"	44	65.50	78,400	5 - 12 to 1	78.4	198,000	5 - 12 to 1	78.4	314,000	5 - 12 to 1
2"	6"	48	80.20	96,000	5 - 12 to 1	91.4	225,000	5 - 12 to 1	91.4	355,000	5 - 12 to 1
2-1/8"	6-1/2"	52	93.50	110,600	5 - 12 to 1	109	270,000	5 - 12 to 1	109	428,000	5 - 12 to 1
2-1/4"	7"	56	108.50	126,600	5 - 12 to 1	122	317,700	5 - 12 to 1	122	481,000	5 - 12 to 1
2-1/2"	7-1/2"	60	124.40	144,700	5 - 12 to 1	148	360,000	5 - 12 to 1	148	530,000	5 - 12 to 1
2-5/8"	8"	64	141.10	162,800	5 - 12 to 1	167	370,800	5 - 12 to 1	167	596,000	5 - 12 to 1
2-3/4"	8-1/2"	68	156.50	181,900	5 - 12 to 1	187	405,000	5 - 12 to 1	187	660,000	5 - 12 to 1
3"	9"	72	178.10	206,900	5 - 12 to 1	214	508,500	5 - 12 to 1	214	780,000	5 - 12 to 1
3-1/4"	10"	80	220.00	250,530	5 - 12 to 1	261	616,500	5 - 12 to 1	261	940,000	5 - 12 to 1
4"	12"	96	314.50	353,400	5 - 12 to 1	394	900,000	5 - 12 to 1	394	1,520,000	5 - 12 to 1

- (1) Diameter is approximate and is actually determined by linear density. (Pounds per 100')
- (2) Linear Density is considered average weight per 100'. Tolerances: 3/16" - 5/16" diameters inclusive +plus or -minus 10%; 3/8" - 9/16" inclusive +plus or -minus 8%; and 5/8" and up +plus or -minus 5%.
- (3) New rope Minimum Breaking Strength is based on data from a number of manufacturers and represents a value of 2 standard deviations below the mean, established by regression analysis.
- (4) For critical applications where life or limb of Dynamic Loading is present, use the higher ratio division.
Example: 10,000 pounds ÷ 12 = 833 pounds working load ratio.



Specifications

Diameter & Size Number Values

Size is determined by linear density; diameter is given as a minimal value, that is, it may vary slightly. If a specific diameter value is specified, linear density and minimum breaking strength values may be different from those given in tables. Size number is given as a reference.

Working Loads

Minimum breaking strength is based on data from a number of manufacturers and represents a value of 2 standard deviations below the mean, as established by regression analysis. The working load of a rope shall be determined by dividing the minimum breaking strength by the design factor. Design factors range from 5 to 12 for non-critical applications.

Because of the wide range of rope use, rope conditions, exposure to the several factors affecting rope behavior, and the degree of risk to life and property involved, it is not realistic to make standard recommendations as to design factors or working loads. However, to provide guidelines, a range of design factors and working loads are provided for rope in good condition with appropriate splices, in non-critical applications and under normal service conditions. Normal service is generally considered to be used under static or very modest dynamic load conditions.

Design factors at the low end of the suggested range should only be selected with expert knowledge of conditions and professional estimate of risk, based on the critical conditions of use below.

Critical Conditions of Use

Design factors at the high end of the range or larger shall be used when:

- 1) Small ropes are used because they can be more severely damaged by cutting, abrasion & sunlight.
- 2) Loads are not accurately known.
- 3) Operators are poorly trained.
- 4) Operation/use procedures are not well defined and/or controlled.
- 5) Inspection is infrequent.
- 6) Abrasion, cutting, dirt are present.
- 7) Shock loads or extreme dynamic loadings are likely.
- 8) High temperatures are present.

- 9) Chemicals are present.
- 10) Ropes are kept in service indefinitely.
- 11) Tensions on the rope are maintained continuously for long periods.
- 12) Rope can be subject to sharp bends if used over pulleys or surfaces with too small a radius.
- 13) If knots are used, strength is reduced by up to 50%
- 14) Death, injury or loss of valuable property may result from failure.

Dynamic Loading

Whenever a load is picked up, stopped, moved or swung, there is an increased force due to dynamic loading. The more rapidly or suddenly such actions occur, the greater this increase will be. In extreme cases, the force put on the rope may be two, three, or even more times the normal load involved; for instance, when picking up a tow on a slack line or using a rope to stop a falling object. Therefore, in all such applications as towing lines, life lines, safety lines, climbing ropes, etc., design factors must reflect the added risks involved.

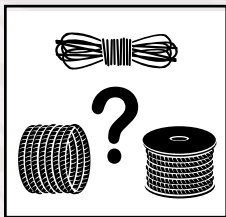
Users should be aware that dynamic effects are greater on a low-elongation rope such as manila than on a high-elongation rope such as nylon and greater on a shorter rope than a longer one. The range of design factors given contains provision for very modest dynamic loads. This means that the load must be handled slowly and smoothly to minimize dynamic effects.

Special Safety Note

A dangerous situation occurs if personnel are in line with a rope under excessive tension. Should the rope fail, it may recoil; with considerable force - especially if the rope is nylon. Death may result. Persons must be warned against standing in line with the rope.

Special Applications

The design factor ranges are not necessarily intended to apply in those applications where a thorough engineering analysis of all conditions of use has been made by qualified professionals. In such cases, breaking strength, elongation, energy absorption, behavior under long-term or cyclic loading, and other pertinent properties and operating procedures may be evaluated to allow the selection of a design factor best suited to the requirements.



NOTE: Because of the wide range of rope use, rope condition, exposure to the several factors affecting rope behavior, and the degree of risk to life and property involved, it is impossible to cover all rope applications in this section. In all cases where risk is involved, or there is a question about the condition of use, consult the manufacturer. This is not intended to apply to rescue rope. Consult the manufacturer for specific applications.

CHOOSING A ROPE

Always consult the manufacturer before using rope when personal safety or possible damage to property is involved.

Make sure the rope is adequate for the job. Do not use too small a rope or the wrong type. Specifications are available from your dealer, distributor, or the manufacturer, which gives the strength and recommended working loads for various sizes and constructions of hard fiber and synthetic rope.

REMOVING ROPE FROM COILS & REELS

Remove rope properly from coils or reels to prevent kinking.

If the rope is in a coil, it should always be uncoiled from the inside as directed by the manufacturer. If on a reel, the rope should be removed by pulling it off the top while the reel is free to rotate. This can be accomplished by passing a pipe through the center of the reel and jacking both ends up in a horizontal position until the reel is free from the surface. To proceed in any other manner may cause kinks or hockles (strand distortion).



HANDLING ROPE

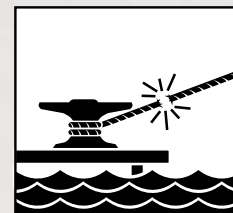
Never stand in line with rope under tension. If a rope or attachment fails, it can recoil with sufficient force causing physical injury. Synthetic rope has higher recoil/snapback tendencies than natural fiber rope.

Reverse rope ends regularly, particularly when used in tackle. This permits even wearing and assures longer, useful life. When using tackle or slings, apply a steady, even pull to get full strength from rope. For maximum safety and economy, always use slings employing an angle of about 45°.

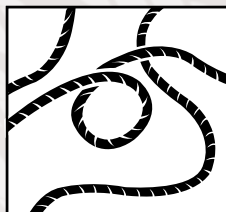
OVERLOADING

Do not overload rope. Sudden strains of shock loading can cause failure.

Avoid sudden strains - shock loads can exceed breaking strength. Shock loading can cause failure of a rope normally strong enough to handle the load. Working loads are not applicable when the rope is subject to significant dynamic loading. Whenever a load is picked up, stopped, moved, or swung, there is an increased force due to dynamic loading. The more rapidly or suddenly such actions occur, the greater this increase will be. In extreme cases, the force put on the rope may be two, three, or even more times the normal load involved. Examples could be picking up a tow on a slack line or using a rope to stop a falling object. However, working loads as given do not apply in all such applications as towing lines, life lines, safety lines, climbing ropes, or the like.



Users should be aware that dynamic effects are greater on a low elongation rope such as manila than on a high elongation rope such as nylon, and greater on a shorter rope than on a longer one. Excessive dynamic loading of a high elongation rope is equally dangerous, because of stored energy which will cause the rope to recoil dangerously if it breaks. When a working load has been used to select a rope, the load must be handled slowly and smoothly to minimize dynamic effect and avoid exceeding the provision for them.



WINCHING LINES

Proper procedures will prevent kinks and hockles in three-strand twisted rope.

Repeated hauling of a line over a winch in a counterclockwise direction will extend the lay of twisted rope and simultaneously change the twist of each strand. As this action continues, strand hockles or back turning may develop. Once these hockles appear they cannot be removed, and the rope is permanently damaged at the point of hockling. If the line is continuously hauled over a winch in a clockwise direction, the rope lay is shortened, and the rope becomes stiff and will kink readily.

CHECKING ROPE FOR WEAR

Avoid using rope that shows signs of aging and wear. If in doubt, destroy the used rope.

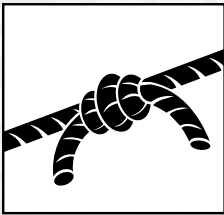
No type of visual inspection can be guaranteed to accurately and precisely determine actual residual strength. When the fibers show wear in any given area, the rope should be re-spliced, downgraded, or replaced. Check the line regularly for frayed strands and broken yarns. Pulled strands should be rethreaded into the rope if possible. A pulled strand can snag on a foreign object during a rope operation.

Both outer and inner rope fibers contribute to the strength of the rope. When either is worn, the rope is naturally weakened. Open the strands of rope (either three-strands or braided) slightly and look for powdered fiber, which is one sign of internal wear. A heavily used rope will often become compacted or hard which indicates reduced strength. The rope should be discarded if this condition exists.





Rope Usage Guide



SPLICING

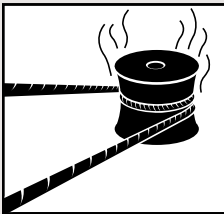
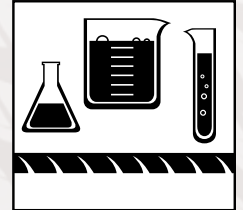
Join rope ends by splicing.

Knots can decrease rope strength by as much as 60%. Use the manufacturer's recommended splices for maximum efficiency. Other termination can be used, but their strength loss with a particular type of rope construction should be determined and not assumed.

CHEMICALS

Avoid chemical exposure.

Rope is subject to damage by chemicals. Consult the manufacturer for specific chemical exposure such as solvents, acids, and alkalis. This is particularly true for natural fiber rope. Consult the manufacturer for recommendations when a rope will be used where chemical exposure (either fumes or actual contact) can occur.



HEAT

Avoid overheating.

Heat can seriously affect the strength of rope. When using rope where temperatures exceed 140°F (or if it is too hot to hold), consult the manufacturer for recommendations as to the size and type of rope for the proposed continuous heat exposure conditions. When using ropes on a capstan or winch, care should be exercised to avoid surging while the capstan or winch head is rotating. The friction from this slippage causes localized overheating which can melt or fuse synthetic fibers or burn natural fibers, resulting in severe loss of tensile strength.

Synthetic fiber ropes will show a reduction in strength when used at elevated temperatures. Because of this property, caution should be taken when using synthetic rope at elevated temperatures, for the rope will fail under loads well below its published breaking strength. In addition, even though synthetic rope is being used at 75°F, if it has been stored at elevated temperatures over a long period of time it can fail under loads below its rated breaking strength. If the user has any doubts concerning the strength of the rope, he or she should contact the manufacturer.

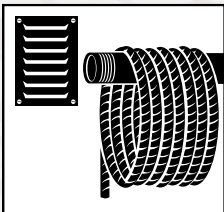
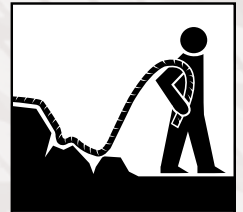
CAUTION:

Heat can seriously affect the strength of synthetic ropes. The temperature at which 50% strength loss can occur in new and unused ropes is: Polypropylene - 150°F, Nylon - 350°F, Polyester - 390°F.

ABRASION

Avoid all abrasive conditions.

All rope will be severely damaged if subject to rough surfaces or sharp edges. Chocks, bits, winches, drums, and other surfaces must be kept in good condition and free of burrs and rust. Pulleys must be free to rotate and should be of proper size to avoid excessive wear. Restraining clamps and similar devices will damage and weaken the rope and should be used with extreme caution.



STORAGE AND CARE OF ROPE

All rope should be stored clean, dry, out of direct sunlight, and away from extreme heat.

Cordage should be stored in a cool, dry and well ventilated warehouse. It should be kept off the floor, and on racks to provide ventilation underneath. Never store rope on a concrete or dirt floor, and under no circumstances should cordage and acid or alkalis be kept in the same building. Natural fiber rope mildews and decays if stored wet. Do not store rope in direct sunlight. Some synthetic rope (particularly polypropylene and polyethylene) may be severely weakened by prolonged exposure to ultraviolet (UV) rays unless specifically stabilized and/or pigmented to increase its UV resistance. UV degradation is indicated by discoloration and the presence of splinters and slivers on the surface of the rope.

WARNING:

All synthetic rope under load will recoil if a fitting such as a chain, hook, cleat, bolt, pin, or ball-hitch and so forth should fail.

The snapback action can propel the fitting and the rope causing serious injury to persons or property anywhere in the vicinity. This danger can exist from failure of the fitting within the rope's safe working load. Check all fittings, bolts, shackles, connectors, pins, mountings, splices, and so forth before using.

The Cordage Institute publishes standards for strengths, weights and testing procedures. Send for a copy of the publications list.

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