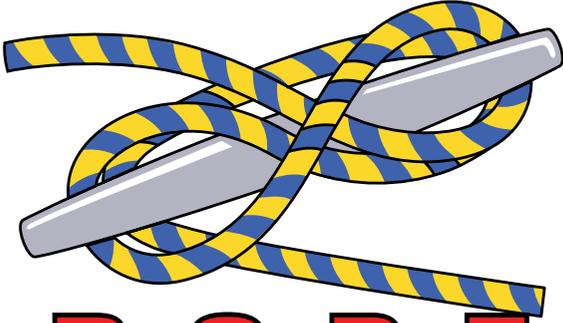


DENVER



ROPE

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Wholesale and Retail Distributor of Marine & Industrial Products,
Custom Boat Lines, Custom Colored Rope, Special Assemblies,
Made to Your Specifications in the USA





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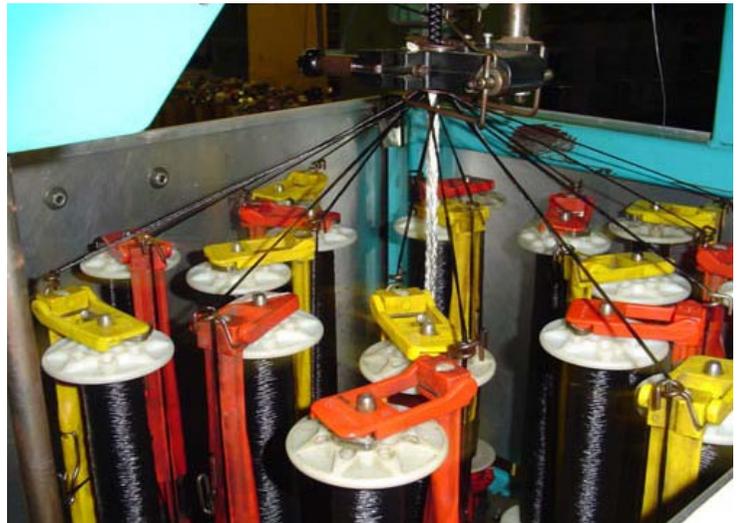
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1 - ABOUT OUR COMPANY

**The Best Custom Boat Lines, Custom Colored Ropes,
 & Special Assemblies made to Your Specifications**



Denver Rope is a factory direct distributor located in Denver Colorado. We ship world wide. Notable customers include Banana Republic, Polo Ralph Lauren, Maldives - Four Seasons & Holiday Inn Resorts, U.S. Coast Guard, U.S. Navy, U.S. Air Force, U.S.M.C., Army Corp of Engineers, National Park Service, N.R.E.L., N.O.A.A., N.A.S.A., Panama Canal Authority, Signapore Army, Unlimited Houseboat Services & Antelope Point Marina Lake Powell, any number of marina stores throughout North & South America, and many special individual customers like you. John Romero— President Denver Rope.

Above and to the right are pictures of two of our many double braid rope machines. The planetary bobbins are configured with the color of marine solution dyed yarn to produce the color pattern you have chosen. Refer to the Denver Rope Mixer.

QUALITY CONTROL

QUALITY CONTROL

Attention to detail sets us apart. Our Double Braid Splices are hand sewn and whipped for extra durability and holding power. Bitter ends are melted clean, sewn, and whipped to prevent fraying. Any of our lines can be specified with custom whipping.

At Denver Rope we strive to offer the best custom boat lines, dock lines, mooring lines, anchor lines, tow lines, tow bridles, and special assemblies made to your specifications made in the USA. receive our best discounts.



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CHAFE PROTECTION

Protect your lines against chafing by specifying nylon cordura chafe guard on the eye splices and or any other location subject to chafing. Covered Eyes are a must for long term mooring applications. Is your boat moored in a slip? Then cover those eyes. At Denver Rope we strive to offer the best custom boat lines, dock lines, mooring lines, anchor lines, tow lines, tow bridles, and special assemblies made to your specifications made in the USA.



The upper left picture is a double ended tow line where both 18" eye splices are covered. The upper right picture is a custom colored dock line with a 12" covered eyes splice for a houseboat. The picture to the right is an example of a dock line for a large yacht with a 36" covered eye splice. In all cases note the whipping and sewing of the splice. All rope above is double braided nylon. All our lines can be specified with whipping and chafe protection. Just let us know and we will do it.

ABOUT THE MANUFACTURER

MADE IN THE USA

Our rope is manufactured in a 40,000 square foot warehouse in South Florida. Miami Cordage has been in business since 1960 serving the Southeast U.S.A., Caribbean Basin, and Central and South America. Florida Wire & Rigging Works, a division of Miami Cordage, has been renowned for unexcelled workmanship and service in Wire, Rope, Chain & Fittings since 1956. Both founders remain a part of the company.



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2 - ROPE SELECTION GUIDE

The Best Custom Boat Lines, Custom Colored Ropes,
& Special Assemblies made to Your Specifications

Use these Rope Definitions to Select the Best Fiber and Construction for your Application



Double Braid Nylon Rope (Our “Yacht Braid” is available in 15 solid colors and combinations)
Double Braided Nylon excels in strength & flexibility. A Custom Colored Nylon Jacket is braided around a nylon core. It offers predictable controlled elongation which helps even out the strains & stresses on dock lines, anchor lines, tow lines, heavy duty marine hawsers, and mooring lines. Torque-balanced construction prevents hockling, while special tension setting and stabilization processes hold the rope dimensionally stable. Please choose double braid nylon rope as the best all-around recreational marine rope. Double Braid Nylon Rope is also used for in-land tow and recovery applications, equine rope halters, equine lead ropes, and as a fitness and exercise rope. The nylon core can be omitted to in order make Flat Braid Nylon Rope.



Double Braid Polyester Rope (Our “Pro Yacht Braid” is available in 10 solid colors and combinations)
Double Braided Polyester is similar to double braid nylon, but has less stretch than nylon. A Custom Colored Polyester Jacket is braided around a polyester core. The best rope for running rigging and is ideally suited for all rope halyards. This very low stretch rope excels in strength, abrasion resistance, gripping properties, weather / UV resistance, and flexibility. Please choose double braid polyester rope for low stretch applications (see double braid nylon applications but low stretch). The polyester core can be omitted to in order make Flat Braid Polyester Rope.



3-Strand Twisted Nylon Rope (Available in white and black colors)
3-Strand Nylon Rope consists of three equally sized strands twisted together to produce a very fine, durable rope. Using premium high-tensile nylon fibers we produce a durable rope with balanced construction. Our 3-Strand Nylon Rope is easy to handle wet or dry, knots and splices easily, and provides the highest elasticity of any rope. Choose Three Strand Twisted Nylon Rope as an economical general purpose rope. 3-Strand Nylon Rope is also used for in-land tow and recovery applications, and for decorative purposes.



3-Strand Twisted Polyester Rope (Available in white and black colors)
3-Strand Polyester Rope is similar in appearance and construction when compared to our 3-Strand Nylon Rope, but has lower stretch. It has high strength, low stretch, and excellent weather / UV resistance. It is resistant to rot, mildew, deterioration due to marine organisms, and is also resistant to acids and solvents. Choose Three Strand Twisted Polyester Rope for low stretch applications.



3-Strand Twisted Polypropylene Rope (Available in yellow, white, black, black/yellow colors)
3-Strand Twisted Polypropylene Rope is a light weight, strong, and a general purpose synthetic rope that is easier to handle than rope made from natural manila fibers. This floating & waterproof rope is resistant to rot, oil, gasoline and most chemicals and is stronger than manila rope. Choose Three Strand Twisted Polypropylene Rope as an economical alternative to nylon and for floating applications.



3-Strand Twisted Manila Rope
3-Strand Manila Rope is manufactured from selected high grade natural fibers. It is used in shipping, construction, agriculture, and is a general purpose rope for jobs where economy, strength, and durability are necessary. It resists mildew and agricultural deterioration. Also choose Three Strand Manila Rope for decorative purposes and for fitness and exercise applications (climbing ropes).

The Best Custom Boat Lines, Custom Colored Ropes, & Special Assemblies made to Your Specifications



12-Strand Plait Nylon Rope (Our "Euro Braid" is available in 15 solid colors)

12-Strand Nylon Rope, also called 12 Plait Braid, provides high strength, high elongation, and excellent abrasion resistance in a single braid construction. 12-Strand Nylon is easily spliced, and handles well. Compared to 3-Strand Twisted and 8 Plait ropes, 12-Strand offers important performance advantages. It provides higher strength-to-weight ratios, will not rotate under load, stays supple over time in both the marine and industrial environment, grips and renders well on winches, bollards, and capstans. Choose Twelve Strand Nylon Rope for special dock line and mooring line applications.



12-Strand Plait Polyester Rope (Our "Euro-Pro Braid" is available in 10 solid colors)

12-Strand Polyester Rope, also called 12 Plait Braid, provides the characteristics of polyester fiber mentioned above, but with the advantages of 12-Strand construction. Choose Twelve Strand Polyester Rope for low stretch applications (see double braid nylon applications but low stretch).



12-Strand Braid AmSteel@-Blue

AmSteel@-Blue Rope is the latest development of HMPE fiber in a 12-Strand braided rope utilizing parallax design with blue samthane urethane coating. This twelve strand braided rope yields the maximum in strength-to-weight ratio, very low stretch, and is stronger than wire rope constructions -- yet it floats. It also has the best flex-fatigue and wear resistance when compared to products made of HMPE or post-drawn HMPE fibers. Specific Gravity: .98 (Floats). Please choose AmSteel@-Blue Rope for specialized heavy duty marine towing and mooring line applications. AmSteel@-Blue Rope is often used to replace steel cables and for winch applications including as an in-land tow and recovery rope.



12-Strand Braid SK-75 Dyneema@ Rope (Our "Iron Lite" is available in blue)

Iron Lite is Miami Cordage's strongest synthetic rope, made from HMPE Dyneema@ SK-75 fibers. It is a 12-strand single braid, non-rotational rope that, size for size, is the same strength as steel. Iron Lite has a specific gravity of 0.98, allowing it to float yet it will not absorb water and is UV resistant. Dyneema@ fiber ropes have a life span that is typically stronger than wire rope, making it an excellent wire rope replacement. Iron Lite has extremely low stretch, superior flex fatigue, and wear resistance. It is a high performance rope and useful with high load applications where ease of handling is important and where wire rope is not practical. Please choose Iron Lite Rope for specialized heavy duty marine towing and mooring applications. SK-75 Dyneema@ Rope is often used to replace steel cables and for winch applications including use as an in-land tow and recovery rope.



8-Strand Superdan (Maxima) Rope (Heavy Duty Mooring Line)

Our large diameter 8-Strand Superdan mooring lines are made from high strength polypropylene and serve as a perfect mooring line for large vessels. These lines are 720 feet in length and have 6 feet covered eyes on both ends. Choose Superdan for heavy duty marine applications.



8-Strand Maxiflex Rope (Heavy Duty Mooring Line)

Our OCIMF approved 8-Strand Maxiflex mooring lines are made from high tenacity polyester and high strength polypropylene yarn in a specific composition for higher durability. These lines are 720 feet and have 6 feet covered eyes on both ends. 20% additional breaking strength over nylon ropes, better abrasion resistance compared to nylon ropes, retains strength in wet conditions, sinks in water, yet does not gain weight. Maxiflex lasts longer due to its high ultraviolet resistance properties. Choose Maxiflex for heavy duty marine applications.



3-Strand Twisted Polypropylene Dacron (Poly-Dac)

Poly-Dac rope is a composite blend of polypropylene and polyester fibers and is an excellent, low cost general utility rope. It has very low stretch properties and it is easily spliced. Also choose Three Poly-Dac Rope for

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decorative purposes and fitness and exercise applications (battling & undulation ropes).



3-Strand Twisted Windlass Grade Heat-Set Nylon Rope (Available in white with a yellow tracer)

For windlass anchor line / anchor rode applications we offer our Heat Set 3-Strand Twisted Nylon Rope in solid white with a yellow tracer thread. Our 3-Strand Windlass Grade Heat Set is produced to the same standards as our Premium Nylon 3-Strand Rope. Additional finishing processes make it an ideal windlass rope. The finished rope is initially pre-shrunk and then coated with a Marine Overlay Finish that stiffens the rope as well as enhances its durability and abrasion resistance. The final result is a firm, easily spliced rope and ideal for anchor lines / anchor rodes.



8-Strand Polypropylene Hollow Braid Rope (Available in yellow, white, black, and green colors)

The original 8-Strand "easy splice" rope. The Hollow Braid Rope is made using 8-Strand Polypropylene Diamond Braid construction with a hollow center, is easy to handle and splice, and it floats. Polypropylene is available in yellow, black, and white in various sizes and reel lengths. Choose polypropylene hollow braid rope for light duty floating applications.



8-Strand Plait Nylon (Available in solid white)

For specialized windlass anchor line / anchor rode applications we offer 8-Plait Braid, which provides high strength, high elongation, and excellent abrasion resistance in a single braid construction. 8-Plait Nylon is easily spliced and handles well. Compared to 3-Strand Twisted Rope, 8-Plait Rope offers important performance advantages. It provides higher strength-to-weight ratios, will not rotate under load, stays supple over time in both the marine and industrial environment, grips and renders well on winches, bollards, and capstans.



Solid Braid Nylon (Available in solid white)

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



Solid Braid Polyester (Available in solid white or black)

Solid Braid Polyester is a strong, soft, lightweight cord with excellent resistance to rot, abrasion, mildew, petroleum products and most chemicals. Our solid braid polyester does not have the elasticity of the solid braid nylon and works well on blocks and pulleys. Other useful applications include use for guy lines, sash cord, pulleys, tie downs and flagpole halyards.



3 - ROPE STRENGTH GUIDE

The Best Custom Boat Lines, Custom Colored Ropes,
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NYLON DOUBLE BRAID

Diameter inches	Diameter mm	Tensile Strength pounds	Working Load pounds
1/4"	6.4	1,900	380
3/8"	9.5	4,900	980
1/2"	12.7	8,500	1,700
5/8"	15.9	13,500	2,700
3/4"	19.1	19,400	3,880
7/8"	22.2	26,300	5,260
1-0"	25.4	34,000	6,800
1-1/4"	31.8	52,000	10,400
1-1/2"	38.1	74,000	14,800
1-5/8"	41.3	92,400	18,480
1-3/4"	44.5	106,000	21,200
2-0"	50.8	126,000	25,200
2-1/4"	57.2	166,000	33,200
2-1/2"	63.5	189,000	37,800
2-5/8"	66.7	222,000	44,400
2-3/4"	69.9	237,000	47,400
3-0"	76.2	277,000	55,400
3-1/4"	82.6	341,000	68,200
3-5/8"	92.1	400,000	80,000

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

POLYESTER DOUBLE BRAID

Diameter inches	Diameter mm	Tensile Strength pounds	Working Load pounds
1/4"	6.4	2,000	400
3/8"	9.5	4,400	880
1/2"	12.7	8,200	1,640
5/8"	15.9	14,000	2,800
3/4"	19.1	20,000	4,000
7/8"	22.2	29,900	5,980
1-0"	25.4	38,000	7,600
1-1/4"	31.8	54,500	10,900
1-1/2"	38.1	72,000	14,400
1-5/8"	41.3	77,800	15,560
1-3/4"	44.5	89,200	17,840
2-0"	50.8	110,000	22,000
2-1/4"	57.2	141,000	28,200
2-1/2"	63.5	170,000	34,000
2-5/8"	66.7	186,000	37,200
2-3/4"	69.9	206,000	41,200
3-0"	76.2	237,000	47,400
3-1/4"	82.6	292,000	58,400
3-5/8"	92.1	348,000	69,600

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

NYLON 3-STRAND TWISTED

Diameter inches	Diameter mm	Tensile Strength pounds	Working Load pounds
1/4"	6.4	1,650	281
3/8"	9.5	3,700	629
1/2"	12.7	6,400	1,088
5/8"	15.9	10,400	1,768
3/4"	19.1	14,200	2,414
7/8"	22.2	20,000	3,400
1-0"	25.4	25,000	4,250
1-1/4"	31.8	37,500	6,375
1-1/2"	38.1	53,000	9,010
2-0"	50.8	92,000	15,640
2-1/2"	63.5	125,000	21,250
3-0"	76.2	200,000	34,000
4-0"	101.6	360,000	61,200

POLYESTER 3-STRAND TWISTED

Diameter inches	Diameter mm	Tensile Strength pounds	Working Load pounds
1/4"	6.4	1,650	281
3/8"	9.5	3,700	629
1/2"	12.7	6,400	1,088
5/8"	15.9	10,000	1,700
3/4"	19.1	12,500	2,125
7/8"	22.2	18,000	3,060
1-0"	25.4	22,000	3,740
1-1/4"	31.8	33,200	5,644
1-1/2"	38.1	46,800	7,956

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

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POLYPROPYLENE 3-STRAND TWISTED			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6.4	1,250	213
3/8"	9.5	2,700	459
1/2"	12.7	4,200	714
5/8"	15.9	6,200	1,054
3/4"	19.1	8,500	1,445
7/8"	22.2	11,500	1,955
1-0"	25.4	14,000	2,380
1-1/4"	31.8	21,000	3,570
1-1/2"	38.1	29,700	5,049
1-5/8"	41.3	36,000	6,120
1-3/4"	44.5	43,000	7,310
2-0"	50.8	52,000	8,840
2-1/4"	57.2	69,000	11,730
2-1/2"	63.5	80,000	13,600
3-0"	76.2	114,000	19,380
3-1/4"	82.6	137,000	23,290
3-1/2"	88.9	162,000	27,540
4-0"	101.6	190,000	32,300

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

MANILA 3-STRAND TWISTED			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6.4	540	92
3/8"	9.5	1,215	207
1/2"	12.7	2,385	405
5/8"	15.9	3,960	673
3/4"	19.1	4,860	826
7/8"	22.2	6,930	1,178
1-0"	25.4	8,100	1,377
1-1/4"	31.8	12,150	2,066
1-1/2"	38.1	16,550	2,814
1-5/8"	41.3	20,250	3,443
1-3/4"	44.5	23,850	4,055
2-0"	50.8	27,900	4,743
2-1/4"	57.2	36,900	6,273
2-1/2"	63.5	41,850	7,115
3-0"	76.2	57,600	9,792
3-1/4"	82.6	69,300	11,781
3-1/2"	88.9	81,900	13,923
4-0"	101.6	94,500	16,065

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NYLON 12-STRAND PLAIT			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6.4	-	-
3/8"	9.5	-	-
1/2"	12.7	-	-
5/8"	15.9	13,900	2,780
3/4"	19.1	17,900	3,580
7/8"	22.2	26,200	5,240
1-0"	25.4	30,100	6,020
1-1/4"	31.8	45,400	9,080
1-1/2"	38.1	64,800	12,960
1-5/8"	41.3	76,300	15,260
1-3/4"	44.5	92,100	18,420
2-0"	50.8	106,500	21,300
2-1/4"	57.2	152,000	30,400
2-1/2"	63.5	170,000	34,000
2-5/8"	66.7	189,000	37,800
2-3/4"	69.9	214,000	42,800
3-0"	76.2	245,000	49,000
3-1/4"	82.6	288,000	57,600
3-5/8"	92.1	338,000	67,600

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

POLYESTER 12-STRAND PLAIT			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6.4	-	-
3/8"	9.5	-	-
1/2"	12.7	-	-
5/8"	15.9	12,100	2,420
3/4"	19.1	15,800	3,160
7/8"	22.2	24,200	4,840
1-0"	25.4	27,500	5,500
1-1/4"	31.8	42,100	8,420
1-1/2"	38.1	59,600	11,920
1-5/8"	41.3	72,200	14,440
1-3/4"	44.5	84,400	16,880
2-0"	50.8	101,000	20,200
2-1/4"	57.2	137,000	27,400
2-1/2"	63.5	163,000	32,600
2-5/8"	66.7	179,000	35,800
2-3/4"	69.9	202,000	40,400
3-0"	76.2	233,000	46,600
3-1/4"	82.6	282,000	56,400
3-5/8"	92.1	340,000	68,000

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

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AmSteel®-Blue / Dyneema® 12-STRAND			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/8"	3.2	-	-
3/16"	4.8	-	-
1/4"	6.4	-	-
5/16"	7.9	13,700	2,740
3/8"	9.5	19,600	3,920
1/2"	12.7	34,000	6,800
5/8"	15.9	52,800	10,560
3/4"	19.1	64,400	12,880
7/8"	22.2	90,800	18,160
1-0"	25.4	109,000	21,800
1-1/4"	31.8	165,000	33,000
1-1/2"	38.1	228,000	45,600
1-5/8"	41.3	283,000	56,600
1-3/4"	44.5	335,000	67,000
2-0"	50.8	381,000	76,200
2-1/4"	57.2	537,000	107,400
2-1/2"	63.5	588,000	117,600
2-5/8"	66.7	662,000	132,400
2-3/4"	69.9	735,000	147,000
3-0"	76.2	831,000	166,200
3-1/4"	82.6	1,007,000	201,400

Iron Lite / Dyneema® 12-STRAND			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/8"	3.2	2,200	440
3/16"	4.8	4,900	980
1/4"	6.4	7,500	1,500
5/16"	7.9	8,600	1,720
3/8"	9.5	18,000	3,600
7/16"	11.1	22,000	4,400
1/2"	12.7	30,500	6,100
9/16"	14.3	36,500	7,300
5/8"	15.9	47,300	9,460
3/4"	19.1	58,500	11,700

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

SUPERDAN (MAXIMA) 8-STRAND			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
2-0"	50.8	73,865	14,773
2-1/4"	57.2	97,240	19,448
2-5/8"	66.7	126,310	25,262
3-0"	76.2	158,015	31,603
3-1/4"	82.6	194,480	38,896

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

MAXIFLEX 8-STRAND			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
2-0"	50.8	-	-
2-1/4"	57.2	138,000	23,460
2-5/8"	66.7	182,000	30,940
3-0"	76.2	224,900	38,233
3-1/4"	82.6	276,700	47,039

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

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POLY-DAC 3-STRAND TWISTED

Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
3/8"	9.5	2,700	459
1/2"	12.7	4,400	748
5/8"	15.9	6,100	1,037
3/4"	19.1	8,400	1,428
7/8"	22.2	11,125	1,891
1-0"	25.4	13,175	2,240
1-1/4"	31.8	19,900	3,383
1-1/2"	38.1	28,250	4,803
1-3/4"	44.5	36,850	6,265
2-0"	50.8	48,050	8,169
2-1/2"	63.5	73,550	12,504

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

WINDLASS - NYLON 3-STRAND TWISTED

Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
3/8"	9.5	3,700	629
1/2"	12.7	6,400	1,088
5/8"	15.9	10,400	1,768
3/4"	19.1	14,200	2,414
7/8"	22.2	20,000	3,400
1-0"	25.4	25,000	4,250

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

POLYPROPYLENE 8-STRAND HOLLOW BRAID

Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/8", #4	3.2	150	26
3/16", #6	4.8	475	81
1/4", #8	6.4	900	153
5/16", #10	7.9	1,200	204
3/8", #12	9.5	1,600	272
1/2", #16	12.7	2,000	340

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

WINDLASS - NYLON 8-PLAIT

Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
3/8"	9.5	4,000	1,000
1/2"	12.7	8,300	2,075
5/8"	15.9	12,200	3,050
3/4"	19.1	17,000	4,250
7/8"	22.2	-	-
1-0"	25.4	25,000	6,250

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

NYLON SOLID BRAID

Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/8", #4	3.2	575	115
3/16", #6	4.8	825	165
1/4", #8	6.4	1,325	265
5/16", #10	7.9	1,925	385
3/8", #12	9.5	2,800	560
1/2", #16	12.7	4,200	840

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

POLYESTER SOLID BRAID

Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/8", #4	3.2	355	71
3/16", #6	4.8	626	125
1/4", #8	6.4	1,000	200
5/16", #10	7.9	1,600	320
3/8", #12	9.5	2,300	460
1/2", #16	12.7	3,000	600

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time.

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4 - CUSTOM ROPE COLORS & ROPE MIXER

The Best Custom Boat Lines, Custom Colored Ropes, & Special Assemblies made to Your Specifications

Note 1: Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis. Select your Custom Colored Rope from the Solid Rope Color Matrix below, and or select your colors for designing your Custom Colored Rope using the Denver Rope Mixer (below). Match your boat colors or application with our custom colored rope, shown below in double braid nylon or polyester.

Note 2: Double Braid Nylon is available in 15 solid colors and combinations. Double Braid Polyester is available in 10 solid rope colors and combinations. Use the Denver Rope Mixer to create a custom rope pattern (above).

Note 3: 12-Strand Nylon is available in 15 solid colors. 12-Strand Polyester is available in 10 solid colors. Strands can be different solid colors.

Note 4: Solid Braid Nylon is available in white. Solid Braid Polyester is available in white and black. Additional solid colors are available, but require a large production run of several thousand feet depending on rope diameter.

Note 5: 3-Strand Twisted Nylon is available in white and black. 3-Strand Twisted Polyester is available in white and black. Additional solid colors are available, but require a large production run of several thousand feet depending on rope diameter.

Available Solid Colors of Nylon and Polyester Rope



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DENVER ROPE MIXER

The Best Custom Boat Lines, Custom Colored Ropes, & Special Assemblies made to Your Specifications

DENVER ROPE™ MIXER

One – Four Tracer Double Braid Rope Color – Denver Rope™

Gold Red Royal Blue

Line 1 Line 2

Background White Black

Line 3 Line 4

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DENVER ROPE™ MIXER

Half & Half Double Braid Rope Color – Denver Rope™

White Hunter Green

Half 1 Half 2

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DENVER ROPE™ MIXER

50/25/25 Double Braid Rope Color – Denver Rope™

Royal Blue Red White

50 25 25

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DENVER ROPE™ MIXER

Snake Skin Double Braid Rope Color – Denver Rope™

Yellow Black

Stripe 1 Stripe 2

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Fill in color swatch to show each pattern as opposed white color for each case.

Endless color combinations are possible. Select the color / combination that best matches your application.



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5 - BULK ROPE

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NYLON DOUBLE BRAID

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/4"	6.4	NYB148	NYB141	NYB14*	NYB146C*	Black = 1
3/8"	9.5	NYB388	NYB381	NYB38*	NYB386C*	Royal Blue = 2
1/2"	12.7	NYB128	NYB121	NYB12*	NYB126C*	Burgundy = 3
5/8"	15.9	NYB588	NYB581	NYB58*	NYB586C*	Kelly Green = 4
3/4"	19.1	NYB348	NYB341	NYB34*	NYB346C*	Orange = 5
7/8"	22.2	NYB788	NYB781	NYB78*	NYB786C*	Red = 6
1-0"	25.4	NYB18	NYB11	NYB1*	NYB16C*	Yellow = 7
1-1/4"	31.8	NYB1148	NYB1141	NYB114*	NYB1146C*	White = 8
1-1/2"	38.1	NYB1128	NYB1121	NYB112*	NYB1126C*	Gold = 9
1-5/8"	41.3	NYB1588	NYB1581	NYB158*	NYB1586C*	Brown = B
1-3/4"	44.5	NYB1348	NYB1341	NYB134*	NYB1346C*	Gray = G
2-0"	50.8	NYB28	NYB21	NYB2*	NYB26C*	Hunter Green = H
2-1/4"	57.2	NYB2148	NYB2141	NYB214*	NYB2146C*	Navy Blue Grey = N
2-1/2"	63.5	NYB2128	NYB2121	NYB212*	NYB2126C*	Purple = P
2-5/8"	66.7	NYB2588	NYB2581	NYB258*	NYB2586C*	Teal = T
2-3/4"	69.9	NYB2348	NYB2341	NYB234*	NYB2346C*	
3-0"	76.2	NYB38	NYB31	NYB3*	NYB36C*	
3-1/4"	82.6	NYB3148	NYB3141	NYB314*	NYB3146C*	
3-5/8"	92.1	NYB3588	NYB3581	NYB358*	NYB3586C*	

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

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POLYESTER DOUBLE BRAID

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/4"	6.4	PYBF148	PYBF141	PYBF14*	PYBF146C*	Black = 1
3/8"	9.5	PYBF388	PYBF381	PYBF38*	PYBF386C*	Royal Blue = 2
1/2"	12.7	PYBF128	PYBF121	PYBF12*	PYBF126C*	
5/8"	15.9	PYBF588	PYBF581	PYBF58*	PYBF586C*	Kelly Green = 4
3/4"	19.1	PYBF348	PYBF341	PYBF34*	PYBF346C*	Orange = 5
7/8"	22.2	PYBF788	PYBF781	PYBF78*	PYBF786C*	Red = 6
1-0"	25.4	PYBF18	PYBF11	PYBF1*	PYBF16C*	Yellow = 7
1-1/4"	31.8	PYBF1148	PYBF1141	PYBF114*	PYBF1146C*	White = 8
1-1/2"	38.1	PYBF1128	PYBF1121	PYBF112*	PYBF1126C*	Gold = 9
1-5/8"	41.3	PYBF1588	PYBF1581	PYBF158*	PYBF1586C*	Pink = 20
1-3/4"	44.5	PYBF1348	PYBF1341	PYBF134*	PYBF1346C*	
2-0"	50.8	PYBF28	PYBF21	PYBF2*	PYBF26C*	Tan - Tan
2-1/4"	57.2	PYBF2148	PYBF2141	PYBF214*	PYBF2146C*	
2-1/2"	63.5	PYBF2128	PYBF2121	PYBF212*	PYBF2126C*	
2-5/8"	66.7	PYBF2588	PYBF2581	PYBF258*	PYBF2586C*	
2-3/4"	69.9	PYBF2348	PYBF2341	PYBF234*	PYBF2346C*	
3-0"	76.2	PYBF38	PYBF31	PYBF3*	PYBF36C*	
3-1/4"	82.6	PYBF3148	PYBF3141	PYBF314*	PYBF3146C*	
3-5/8"	92.1	PYBF3588	PYBF3581	PYBF358*	PYBF3586C*	

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

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NYLON 3-STRAND TWISTED

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/4"	6.4	NR148	NR141	NR14*	NR146C*	Black = 1
3/8"	9.5	NR388	NR381	NR38*	NR386C*	White = 8
1/2"	12.7	NR128	NR121	NR12*	NR126C*	
5/8"	15.9	NR588	NR581	NR58*	NR586C*	
3/4"	19.1	NR348	NR341	NR34*	NR346C*	
7/8"	22.2	NR788	NR781	NR78*	NR786C*	
1-0"	25.4	NR18	NR11	NR1*	NR16C*	
1-1/4"	31.8	NR1148	NR1141	NR114*	NR1146C*	
1-1/2"	38.1	NR1128	-	NR112*	NR1126C8	
2-0"	50.8	NR28	-	NR2*	NR26C8	
2-1/2"	63.5	NR2128	-	NR212*	NR2126C8	
3-0"	76.2	NR38	-	NR3*	NR36C8	
4-0"	101.6	NR48	-	NR4*	NR46C8	

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/2" diameter. Above 1-1/2" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than

POLYESTER 3-STRAND TWISTED

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/4"	6.4	PRF148	PRF141	PRF14*	PRF146C*	
3/8"	9.5	PRF388	PRF381	PRF38*	PRF386C*	White = 8
1/2"	12.7	PRF128	PRF121	PRF12*	PRF126C*	
5/8"	15.9	PRF588	PRF581	PRF58*	PRF586C*	
3/4"	19.1	PRF348	PRF341	PRF34*	PRF346C*	
7/8"	22.2	PRF788	PRF781	PRF78*	PRF786C*	
1-0"	25.4	PRF18	PRF11	PRF1*	PRF16C*	
1-1/4"	31.8	PRF1148	PRF1141	PRF114*	PRF1146C*	
1-1/2"	38.1	PRF1128	-	PRF112*	PRF1126C8	

Additional diameters and reel lengths are available upon request. Our standard in-stock color is white. Several thousand feet of rope minimum is required to get a custom color other than white.

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POLYPROPYLENE 3-STRAND TWISTED

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/4"	6.4	-	-	-	PPRR146C*	
3/8"	9.5	-	-	-	PPRR386C*	White = 8
1/2"	12.7	-	-	-	PPRR126C*	Orange = 5
5/8"	15.9	-	-	-	PPRR586C*	
3/4"	19.1	-	-	-	PPRR346C*	Yellow = 7
7/8"	22.2	-	-	-	PPRR786C*	Blk/Yel Mix = BY
1-0"	25.4	-	-	-	PPRR16C*	Unmanila = U
1-1/4"	31.8	-	-	-	PPRR1146C*	
1-1/2"	38.1	-	-	-	PPRR1126C*	
1-5/8"	41.3	-	-	-	PPRR1586C*	
1-3/4"	44.5	-	-	-	PPRR1346C*	
2-0"	50.8	-	-	-	PPRR26C*	
2-1/4"	57.2	-	-	-	PPRR2146C*	
2-1/2"	63.5	-	-	-	PPRR2126C*	
3-0"	76.2	-	-	-	PPRR36C*	
3-1/4"	82.6	-	-	-	PPRR3146C*	
3-1/2"	88.9	-	-	-	PPRR3126C*	
4-0"	101.6	-	-	-	PPRR46C*	

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white, black, orange, yellow, black / yellow mix. Polypropylene Monofilament rope is available with special order requiring 600 feet minimum.

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MANILA 3-STRAND TWISTED

Diameter inches	Diameter mm	Part Number natural / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/4"	6.4	MR14	-	-	MR146C	Natural Only
3/8"	9.5	MR38	-	-	MR386C	
1/2"	12.7	MR12	-	-	MR126C	
5/8"	15.9	MR58	-	-	MR586C	
3/4"	19.1	MR34	-	-	MR346C	
7/8"	22.2	MR78	-	-	MR786C	
1-0"	25.4	MR1	-	-	MR16C	
1-1/4"	31.8	MR114	-	-	MR1146C	
1-1/2"	38.1	MR112	-	-	MR1126C	
1-5/8"	41.3	-	-	-	-	
1-3/4"	44.5	-	-	-	-	
2-0"	50.8	MR2	-	-	MR26C	
2-1/4"	57.2	-	-	-	-	
2-1/2"	63.5	MR212	-	-	MR2126C	
3-0"	76.2	MR3	-	-	MR36C	
3-1/4"	82.6	-	-	-	-	
3-1/2"	88.9	-	-	-	-	
4-0"	101.6	-	-	-	-	

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NYLON 12-STRAND PLAIT

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/4"	6.4	E12N148	E12N141	E12N14*	E12N146C*	Black = 1
3/8"	9.5	E12N388	E12N381	E12N38*	E12N386C*	Royal Blue = 2
1/2"	12.7	E12N128	E12N121	E12N12*	E12N126C*	Burgundy = 3
5/8"	15.9	E12N588	E12N581	E12N58*	E12N586C*	Kelly Green = 4
3/4"	19.1	E12N348	E12N341	E12N34*	E12N346C*	Orange = 5
7/8"	22.2	E12N788	E12N781	E12N78*	E12N786C*	Red = 6
1-0"	25.4	E12N18	E12N11	E12N1*	E12N16C*	Yellow = 7
1-1/4"	31.8	E12N1148	E12N1141	E12N114*	E12N1146C*	White = 8
1-1/2"	38.1	E12N1128	E12N1121	E12N112*	E12N1126C*	Gold = 9
1-5/8"	41.3	E12N1588	E12N1581	E12N158*	E12N1586C*	Brown = B
1-3/4"	44.5	E12N1348	E12N1341	E12N134*	E12N1346C*	Gray = G
2-0"	50.8	E12N28	E12N21	E12N2*	E12N26C*	Hunter Green = H
2-1/4"	57.2	E12N2148	E12N2141	E12N214*	E12N2146C*	Navy Blue Grey = N
2-1/2"	63.5	E12N2128	E12N2121	E12N212*	E12N2126C*	Purple = P
2-5/8"	66.7	E12N2588	E12N2581	E12N258*	E12N2586C*	Teal = T
2-3/4"	69.9	E12N2348	E12N2341	E12N234*	E12N2346C*	
3-0"	76.2	E12N38	E12N31	E12N3*	E12N36C*	
3-1/4"	82.6	E12N3148	E12N3141	E12N314*	E12N3146C*	
3-5/8"	92.1	E12N3588	E12N3581	E12N358*	E12N3586C*	

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POLYESTER 12-STRAND PLAIT						
Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/4"	6.4	E12P148	E12P141	E12P14*	E12P146C*	Black = 1
3/8"	9.5	E12P388	E12P381	E12P38*	E12P386C*	Royal Blue = 2
1/2"	12.7	E12P128	E12P121	E12P12*	E12P126C*	
5/8"	15.9	E12P588	E12P581	E12P58*	E12P586C*	Kelly Green = 4
3/4"	19.1	E12P348	E12P341	E12P34*	E12P346C*	Orange = 5
7/8"	22.2	E12P788	E12P781	E12P78*	E12P786C*	Red = 6
1-0"	25.4	E12P18	E12P11	E12P1*	E12P16C*	Yellow = 7
1-1/4"	31.8	E12P1148	E12P1141	E12P114*	E12P1146C*	White = 8
1-1/2"	38.1	E12P1128	E12P1121	E12P112*	E12P1126C*	Gold = 9
1-5/8"	41.3	E12P1588	E12P1581	E12P158*	E12P1586C*	Pink = 20
1-3/4"	44.5	E12P1348	E12P1341	E12P134*	E12P1346C*	
2-0"	50.8	E12P28	E12P21	E12P2*	E12P26C*	Tan - Tan
2-1/4"	57.2	E12P2148	E12P2141	E12P214*	E12P2146C*	
2-1/2"	63.5	E12P2128	E12P2121	E12P212*	E12P2126C*	
2-5/8"	66.7	E12P2588	E12P2581	E12P258*	E12P2586C*	
2-3/4"	69.9	E12P2348	E12P2341	E12P234*	E12P2346C*	
3-0"	76.2	E12P38	E12P31	E12P3*	E12P36C*	
3-1/4"	82.6	E12P3148	E12P3141	E12P314*	E12P3146C*	
3-5/8"	92.1	E12P3588	E12P3581	E12P358*	E12P3586C*	

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AmSteel®-Blue / Dyneema® 12-STRAND

Diameter inches	Diameter mm	Part Number blue / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
5/16"	7.9	AmSteel®516	-	-	AmSteel®516C	Mfr Std Blue = B
3/8"	9.5	AmSteel®38	-	-	AmSteel®386C	
1/2"	12.7	AmSteel®12	-	-	AmSteel®126C	
5/8"	15.9	AmSteel®58	-	-	AmSteel®586C	
3/4"	19.1	AmSteel®34	-	-	AmSteel®346C	
7/8"	22.2	AmSteel®78	-	-	AmSteel®786C	
1-0"	25.4	AmSteel®1	-	-	AmSteel®16C	
1-1/4"	31.8	AmSteel®114	-	-	AmSteel®1146C	
1-1/2"	38.1	AmSteel®112	-	-	AmSteel®1126C	
1-5/8"	41.3	AmSteel®158	-	-	AmSteel®1586C	
1-3/4"	44.5	AmSteel®134	-	-	AmSteel®1346C	
2-0"	50.8	AmSteel®2	-	-	AmSteel®26C	
2-1/4"	57.2	AmSteel®214	-	-	AmSteel®2146C	
2-1/2"	63.5	AmSteel®212	-	-	AmSteel®2126C	
2-5/8"	66.7	AmSteel®258	-	-	AmSteel®2586C	
2-3/4"	69.9	AmSteel®234	-	-	AmSteel®2346C	
3-0"	76.2	AmSteel®3	-	-	AmSteel®36C	
3-1/4"	82.6	AmSteel®314	-	-	AmSteel®3146C	

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Iron Lite / Dyneema® 12-STRAND

Diameter inches	Diameter mm	Part Number blue / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/8"	3.2	IRNLT1218	-	-	IRNLT12186C	Blue Only
3/16"	4.8	IRNLT12316	-	-	IRNLT123166C	* see below *
1/4"	6.4	IRNLT1214	-	-	IRNLT12146C	
5/16"	7.9	IRNLT12516	-	-	IRNLT125166C	
3/8"	9.5	IRNLT1238	-	-	IRNLT12386C	
7/16"	11.1	IRNLT12716	-	-	IRNLT127166C	
1/2"	12.7	IRNLT1212	-	-	IRNLT12126C	
9/16"	14.3	IRNLT12916	-	-	IRNLT129166C	
5/8"	15.9	IRNLT1258	-	-	IRNLT12586C	
3/4"	19.1	IRNLT1234	-	-	IRNLT12346C	

Additional diameters and reel lengths are available upon request. *With a custom run of at least 1,200 feet we can offer additional solid colors (grey, orange, black, yellow, green).*

SUPERDAN (MAXIMA) 8-STRAND

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 720 ft reel	P/N Suffix * Color Code
2-0"	50.8	-	-	-	PPR8SD2720	Mfr Std
2-1/4"	57.2	-	-	-	PPR8SD214720	
2-5/8"	66.7	-	-	-	PPR8SD258720	
3-0"	76.2	-	-	-	PPR8SD3720	
3-1/4"	82.6	-	-	-	PPR8SD314720	

These lines come standard with a 6 ft covered eye splice on each end. Additional diameters, special put-ups, and reel lengths are available upon special request.

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MAXIFLEX 8-STRAND

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 720 ft reel	P/N Suffix * Color Code
2-0"	50.8	-	-	-	PPR8MAXI2720	Mfr Std
2-1/4"	57.2	-	-	-	PPR8MAXI214720	
2-5/8"	66.7	-	-	-	PPR8MAXI258720	
3-0"	76.2	-	-	-	PPR8MAXI3720	
3-1/4"	82.6	-	-	-	PPR8MAXI314720	

These lines come standard with a 6 ft covered eye splice on each end. Additional diameters, special put-ups, and reel lengths are available upon special request.

POLY-DAC 3-STRAND TWISTED

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
3/8"	9.5	-	-	-	PD3386C	White with a
1/2"	12.7	-	-	-	PD3126C	Color Tracer
5/8"	15.9	-	-	-	PD3586C	
3/4"	19.1	-	-	-	PD3346C	
7/8"	22.2	-	-	-	PD3786C	
1-0"	25.4	-	-	-	PD316C	
1-1/4"	31.8	-	-	-	PD31146C	
1-1/2"	38.1	-	-	-	PD31126C	
1-3/4"	44.5	-	-	-	PD31346C	
2-0"	50.8	-	-	-	PD326C	
2-1/2"	63.5	-	-	-	PD32126C	

Additional diameters and reel lengths are available upon request. Poly-Dac is sold by the foot only for fitness, exercise, climbing, and safety lines.

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WINDLASS - NYLON 3-STRAND TWISTED

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
3/8"	9.5	NRHS38	-	-	NRHS386C	White with a
1/2"	12.7	NRHS12	-	-	NRHS126C	Yellow Tracer
5/8"	15.9	NRHS58	-	-	NRHS586C	
3/4"	19.1	NRHS34	-	-	NRHS346C	
7/8"	22.2	NRHS78	-	-	NRHS786C	
1-0"	25.4	NRHS1	-	-	NRHS16C	

Additional diameters and reel lengths are available upon request.

WINDLASS - NYLON 8-PLAIT

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
3/8"	9.5	NR838	-	-	NR8386C	White
1/2"	12.7	NR812	-	-	NR8126C	
5/8"	15.9	NR858	-	-	NR8586C	
3/4"	19.1	NR834	-	-	NR8346C	
7/8"	22.2	-	-	-	-	
1-0"	25.4	-	-	-	-	

Additional diameters and reel lengths are available upo

POLYPROPYLENE 8-STRAND HOLLOW BRAID

Diameter inches	Diameter mm	Part Number white / 1000 ft	Part Number black / 1000 ft	Part Number colors / 1000 ft	Part Number 600 ft reel	P/N Suffix * Color Code
1/8", #4	3.2	PPHB41M8	PPHB41M1	PPHB41M*	-	Black = 1
3/16", #6	4.8	PPHB61M8	PPHB61M1	PPHB61M*	-	White = 8
1/4", #8	6.4	PPHB81M8	PPHB81M1	PPHB81M*	-	Yellow = 7
5/16", #10	7.9	PPHB101M8	PPHB101M1	PPHB101M*	-	Kelly Green = 4
3/8", #12	9.5	PPHB121M8	PPHB121M1	PPHB121M*	-	
1/2", #16	12.7	PPHB161M8	PPHB161M1	PPHB161M*	-	

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white, black, yellow, kelly green. Polypropylene Monofilament rope is available with special order requiring 600 feet minimum.

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NYLON SOLID BRAID

Diameter inches	Diameter mm	Part Number white / std length	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/8", #4	3.2	SBN4	-	-	-	White
3/16", #6	4.8	SBN6	-	-	-	
1/4", #8	6.4	SBN8	-	-	-	
5/16", #10	7.9	SBN10	-	-	-	
3/8", #12	9.5	SBN12	-	-	-	
1/2", #16	12.7	SBN16	-	-	-	

Additional diameters and reel lengths are available upon request (Std Lengths = 50 ft, 250 ft, 500 ft, 1000 ft). Three thousand feet of rope minimum is required to get a custom color other than white.

POLYESTER SOLID BRAID

Diameter inches	Diameter mm	Part Number white / std length	Part Number black / std length	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/8", #4	3.2	SBP48	SBP41	-	-	Black = 1
3/16", #6	4.8	SBP68	SBP61	-	-	White = 8
1/4", #8	6.4	SBP88	SBP81	-	-	
5/16", #10	7.9	SBP108	SBP101	-	-	
3/8", #12	9.5	SBP128	SBP121	-	-	
1/2", #16	12.7	SBP168	SBP161	-	-	

Additional diameters and reel lengths are available upon request (Std Lengths = 50 ft, 250 ft, 500 ft, 1000 ft). Three thousand feet of rope minimum is required to get a custom color other than white or black.

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IMPORTED OVERSEAS - NYLON 3-STRAND TWISTED

Diameter inches	Diameter mm	Part Number white / foot	Part Number black / foot	Part Number colors / foot	Part Number 600 ft reel	P/N Suffix * Color Code
1/4"	6.4	-	-	-	NR146CW	
3/8"	9.5	-	-	-	NR386CW	White Only
1/2"	12.7	-	-	-	NR126CW	
5/8"	15.9	-	-	-	NR586CW	
3/4"	19.1	-	-	-	NR346CW	
7/8"	22.2	-	-	-	-	
1-0"	25.4	-	-	-	NR16CW	
1-1/4"	31.8	-	-	-	-	
1-1/2"	38.1	-	-	-	-	
2-0"	50.8	-	-	-	-	
2-1/2"	63.5	-	-	-	-	
3-0"	76.2	-	-	-	-	
4-0"	101.6	-	-	-	-	

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6 - BOAT LINE DEFINITIONS & KNOTS

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Common Definitions & Nautical Terms

Rope is a length of fibers twisted or braided together to provide a means of connecting, securing, and or pulling objects together.

Wire Rope is a rope constructed of wire strands instead of fibers.

Line is a nautical term used to describe a length of rope used for marine and boating purposes. Mooring Line is a nautical term used to describe a length of rope (i.e. a line) used to moor (connect / fasten / make fast) a marine vessel to dock, pile, wharf, buoy field, the shoreline, lake bottom, and or sea bottom.

Mooring Line is a general term to include both Anchor and Dock Lines and mostly used in heavy marine, commercial, and industrial applications to describe a large vessel's dock lines.

Hawser is a similar nautical term used to describe a length of rope (i.e. a line) used to moor (connect / fasten / make fast) a marine vessel to dock, pile, wharf, and mostly used in heavy marine, commercial, and industrial applications.

Dock Lines are used to Moor (connect / fasten) or Make Fast a boat to a dock (dock lines) or a permanent mooring (mooring lines) like a pile, pier, or wharf. Most often the connecting points are cleats, but not always. Fenders are employed to cushion the movement of the boat against the mooring.

Anchor Lines are used to temporarily Moor (connect / fasten) or Make Fast a boat to a lake or sea bottom.

Mooring Pendant is a relatively short length of line used to connect a vessel to a mooring buoy usually via the boat's bow eye or bow cleats. The boat can free wheel about the mooring depending on the wind direction.

Tow Lines are used to tow a vessel behind a larger boat like a houseboat or yacht. Similarly, a **Towing Hawser** is a line used for towing purposes mostly used in heavy marine, commercial, and industrial applications.

Shore Lines are used to temporarily Moor (connect / fasten) or Make Fast a boat to the shoreline. These mooring lines can be long dock lines and or anchor lines often applied in house boating applications.

Storm Lines are an extra set of mooring lines brought out of storage when the weather gets rough and utilized to provide an additional safety margin (just in case).

Traveling Lines are an extra set of mooring lines used to provide flexibility for docking conditions when traveling from port to port as your normal dock lines might well be too customized for your slip arrangement back home.

Fender Lines / Whips are smaller diameter lines used to hold your fenders in place against your boat's haul. Fender lines are provided with a bitter on each end or with a small loop on one end.

Bitter End is the end of a line where no splices are provided. The bitter end is often seized (melted clean and whipped) to prevent fraying of the rope fibers.

Eye Splice / Loop / Soft Eye Dock Lines and Mooring Lines are provided with a spliced loop on one end (even both ends), which provides for an easy method for making fast around a cleat, pile, bolted eye ring, etc. While the bitter end (free end) of the dock line is made fast to another cleat and the slack adjusted for tension (slack removed) using a cleat hitch.

Chafe Protection / Covered Eye Use Leather, Nylon Cordura Tubing, or Dipping to increase the life span of your lines as they rub against cleats, chocks, and your moorings. Chafe protection is most often used on eye splices, but can be used to protect other sections of the line below the throat of the eye splice (fairlead areas for example). Covered Eyes are a must for long term mooring applications. Is your boat moored in a slip? Then cover those eyes.

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Thimble Splice / Hard Eye is a shapely grooved piece of metal (galvanized or stainless steel for example) which provides chafe protection against the connecting hardware like shackles, hooks, etc. The rope makes a tight bend around the thimble's outside grooved channel and is spliced back into itself. The hardware will rub not on the rope, but on the inside smooth surface of the thimble. Anchor and Tow Lines most often have at least one thimble splice. Mooring Thimbles and Towing Thimbles are used in specialized heavy marine, commercial, and industrial applications (Hawser). Working Load is a fraction of the rope's tensile / breaking strength used to provide a safety factor to account for splices, fiber wear, usage, knots, application, etc. Most often the fraction is at least 1:5, but can be larger depending on the application and fiber characteristics. Never exceed the safe working load of the rope / line.

Working Load Considerations For pleasure marine applications the working load is often chosen to be equal to the fully loaded weight of the towed vessel, but for larger vessels, ships, large yachts, barges, and heavy equipment this conservative approach is not practical and too expensive. For lighter duty applications, practicality, pleasure marine, lake applications, tow line storage concerns, and or budgetary considerations the W.L. is often chosen to be 1/2, 1/3, or some other fraction of the fully loaded weight of the towed vessel.

We encourage the owner to consult with the manufacturer, naval architect, marine engineer, insurance company, and or other authorities of jurisdiction as to provide their recommendations and industry guidelines. The manufacturer may have to provide an engineered calculation (hydrodynamic ship modeling software) as to how much force is required to move / pull the vessel at slow speed for their specific vessel, ship, equipment. The WL of the towing assembly can be set to 2x the calculated force and the tensile strength set to 5x the WL. As opposed to calculating the force, a Static Bollard Pull Test can be performed to actually measure the pulling force.

Aft refers to the back end of the boat (toward the stern). Alongside refers to the side of the boat.

Ballast refers to weight placed inside a boat to achieve the desired trim or draft.

Beam refers to the width (breadth) of a boat.

Bilge refers to the lower inner compartment of a boat's hull. A bilge pump might be placed in this location.

Bitt refers to a post or bollard on a boat or dock area where mooring lines are secured to. There are single bits, double bits, and horned bits.

Capstan refers to a hand cranked or machine driven, vertical, spindle mounted drum that winds mooring lines and anchor rodes, which contrasts with a horizontal mounted machine called a windlass.

Bow refers to the front end of the boat.

Bridle refers to a V-shaped or Y-shaped line arrangement connected to the boat's port and starboard cleats or bits used during towing or mooring.

Buoy refers to a floating object used to identify a location (a navigation aid).

Cleat refers to a forged metal fitting with two project horns secured to a boat's hull or dock area where a mooring line is made fast to (cleating a line using a cleat hitch). Kevel is another term for a cleat. Some cleats have a center hole or chock.

Chock refers to a forged metal fitting providing a location and guidance for mooring lines to pass through.

Draft refers to the depth of a boat's keel below the waterline.

Fairlead refers to an assembly of roller bearings facilitating the movement of a cable in any direction. A chock has similar functionality for rope applications.

Fender refers to an object that absorbs and provides cushioning between a boat and the dock. Buoys can also provide this function.

Fish Plate / Towing Plate refers to forged triangular shaped plate with three holes that facilitates the ease of mechanical connection between a tow bridle and the tow line / hawser.

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Freeboard refers to the distance between the waterline and the deck of a boat. Keel refers to the lowest structural member that runs the entire length of a boat along the centerline.

Hull refers to the main body of a boat that provides floatation.

Nautical Mile refers to a unit of measure equal to 6076 feet or 1852 meters or 1.15 statute miles

Padeye refers to angular steel plate often affixed to the deck of a boat with a hole that provides for a mechanical connection for lines and or cables.

Shackle refers to a U-Shaped piece of metallic hardware with a threaded screw pin which provides for a mechanical connection between pieces of equipment like chain and an anchor.

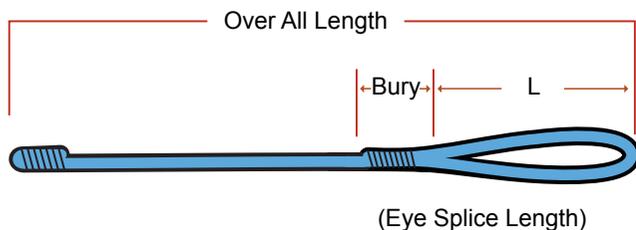
Measurements

Please consider the sketch of a dock line or any mooring line pulled taught as to measure the overall length (OAL) of the line. Secondly, consider the sketch of the eye splice pulled taught as to measure the length / size of the closed loop "L". The eye splice size / length is measured this way as to equal the one way length measured from the splice to the tip / far end / crease.

The total length of rope required to make the eye splice would be $2 \times L +$ bury of the splice, where the bury is often equal to 18 x the diameter of the line.

The amount of chafe guard to cover the eye splice would be $2 \times L$.

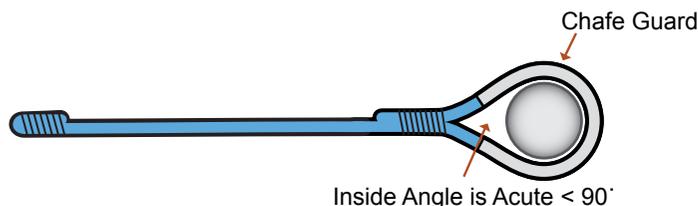
Using geometry we can discover the relationship between the length of the splice and the perimeter of a circle; finally, the diameter "D" of a circle formed by the loop / splice where $L = (11/7) \times D$. In reality one would choose a larger eye splice size as to comfortably slide over the piling and also not to overly stress the eye splice (keep the inside angle acute). Rule-of-Thumb $L = 2 \times D$ (min).



Closed loop pulled taught to measure length or the size of the Eye Splice



Covered Eye Splice is Too Tight around a Piling



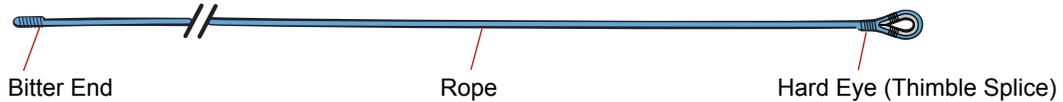
Better Arrangement

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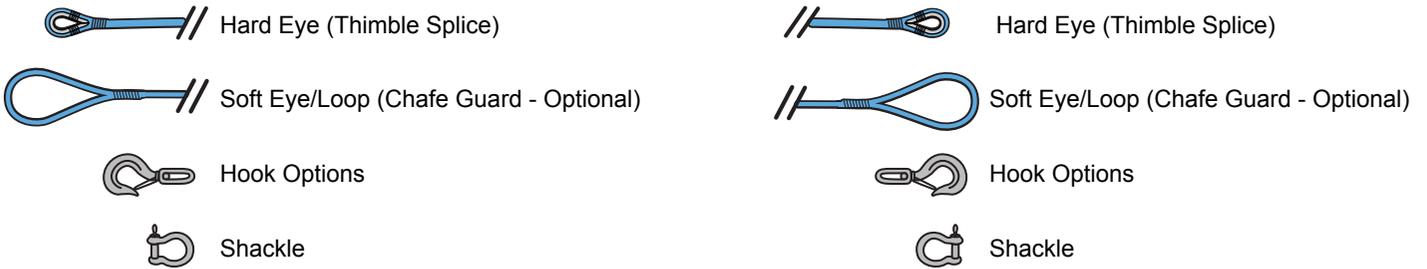
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Mooring Line Diagram



If not a Bitter End,
Select A Spliced Working End
Connection From Below.

If not a Bitter End,
Select A Spliced Working End
Connection From Below.



Knots & Applications

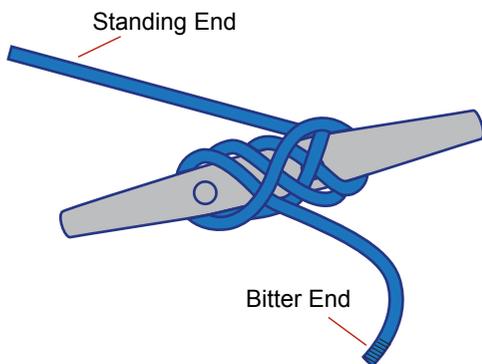
Standing End — The portion of the line that will be under tension.

Tail — The excessive portion of the line not to be under tension the very end of which is called the bitterend.

Bight — When executing / tying a knot and the tail is excessively long, one can overlap and squeeze the line together forming a bight; use the bight to finish the knot.

Mechanical Leverage / Additional Purchase — When performing a knot to secure a line from point A to point B, one can lengthen the distance of pull by adding multiple turns between the points (double, triple, etc) most often accomplished with pulleys and blocks, resulting in increased pulling force.

Please consider this useful animated website (www.animatedknots.com) for learning to tie the most useful knots for boating applications to include: bowline, round turn and two half hitches, cleat hitch, rolling hitch, anchor bend, sheet bend, and many others. Always practice making the knots required of your vessel before your boating trip.



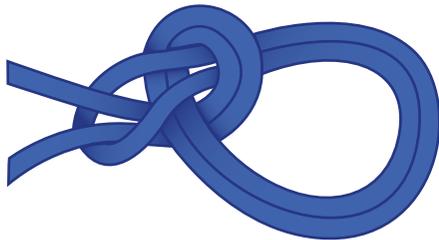
Cleating a Line

The most common knot found at the dock, but practice is required to execute the knot correctly



Bowline

One of the most useful boating knots used for creating a loop on the end of a line and can be easily untied



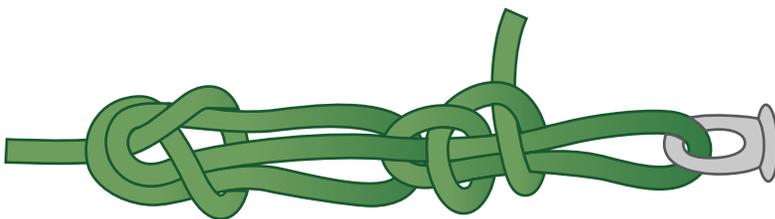
Bowline on a Bight

Is one method used to create a loop in the middle of a line



Alpine Butterfly

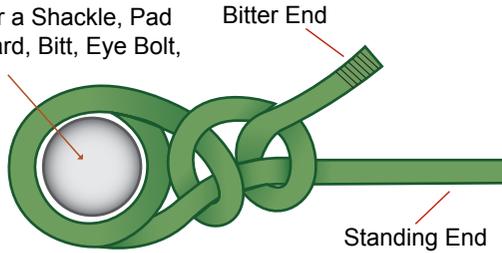
Is one of the best methods for creating a loop in the middle of a line



Truckers Hitch

Use a knot to create a loop in the middle of a line passing the bitter end through a connection and back through the loop resulting in mechanical advantage (increased pulling force). Use a hitch to secure the bitter end of the line

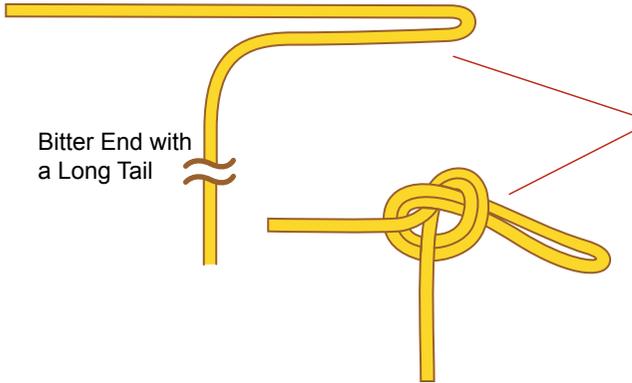
Typical for a Shackle, Pad Eye, Bollard, Bitt, Eye Bolt, Post, etc.



Round Turn and Two Half Hitches

Is another very useful boating knot used to secure the bitter end of a line to a bollard, shackle, ring, etc., even while the line is under tension (very useful). The initial multiple turns takes up the strain on the standing end, while the hitches are performed thus completing the knot. If the bitter end has a long tail, perform the knot using a bight

Standing End

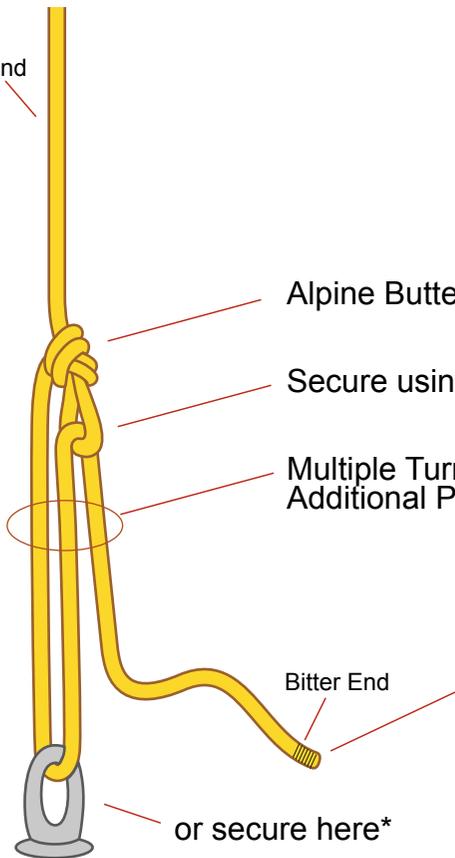


Bitter End with a Long Tail

Bight

Form a Bight and execute the knot using the Bight

Standing End



Mechanical Advantage

To gain extra leverage or purchase use a loop in the middle of the standing end of a line and perform multiple rope turns between locations. One can also perform full length multiple turns.

Alpine Butterfly, Truckers Hitch, Bowline on a Bight

Secure using Round Turn and Two Half Hitches or below*

Multiple Turns creates Mechanical Advantage or Additional Purchase

Bitter End

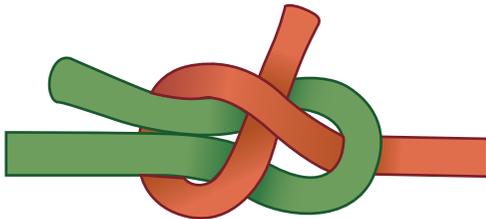
If the tail is long form a bight and execute the knot, using the bight

or secure here*



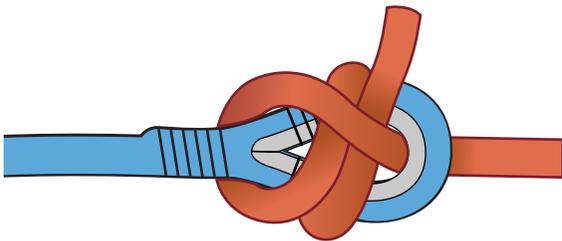
Anchor Bend / Fisherman's Bend

Similar to the round turn and two half hitches, this knot provides a standard method for securing an anchor line to a shackle, ring, or anchor



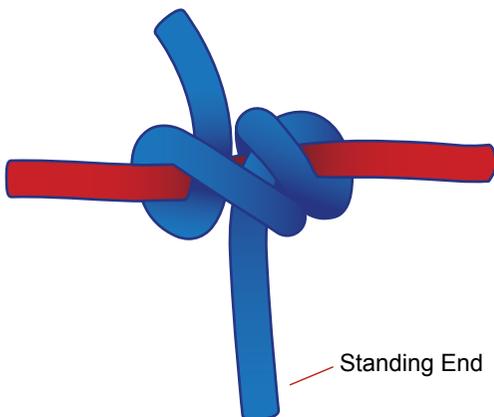
Sheet Bend

Is used to tie two lines together even if the lines are different diameters. Use half hitches on the bitter end to provide additional security



Double Becket Hitch

Similar to the sheet bend except one line has a spliced end where multiple turns can be used if the one line is smaller in diameter. Use half hitches on the bitter end to provide additional security

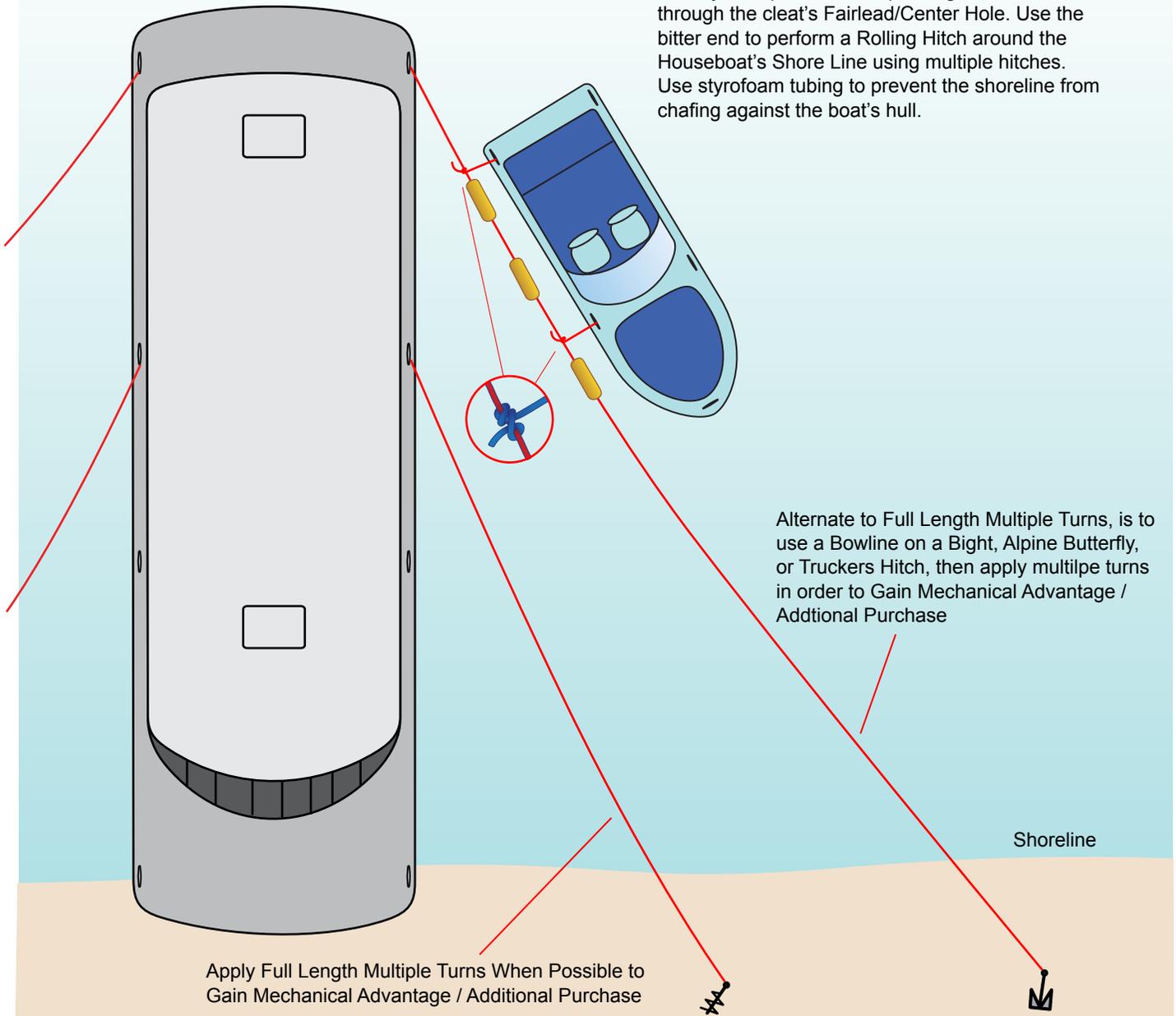


Rolling Hitch

Is a very useful boating knot used to secure a smaller line to the standing end of a larger line with minimal possibility of slipping sideways down the larger line. The knot can be executed while the line is under tension (very useful). The initial multiple turns take up the strain on the standing end, while the hitches are performed completing the knot

Houseboat Application

Use a minimum of (2) 3/8" Docklines. Attach the Soft Eye/Loop to the cleat passing the bitter end through the cleat's Fairlead/Center Hole. Use the bitter end to perform a Rolling Hitch around the Houseboat's Shore Line using multiple hitches. Use styrofoam tubing to prevent the shoreline from chafing against the boat's hull.



- Typical Knots include the Cleat Hitch or 2-Turn Half Hitches
- If you have a Long Tail (extra rope at the bitter end) then perform the Knot using the rope on a Bight
- Performing the Half Hitch Knot on a Bight is usually easier to un-tie then otherwise
- In Stormy Conditions add a minimum of one line per side

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7 - DOCK LINES

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Common Definitions & Nautical Terms

Bow, Stern, and Spring Lines - Most average sized boats can be moored using two groups of dock lines (4 dock lines). For the first group there is one each of a Bow Line and a Stern Line, which are +/- 2/3 the length of the boat, and are used to make fast the bow and stern to the mooring. For the second group there is an After Bow Spring Line and a Forward Quarter Spring Line, which are +/- the same length of the boat. The spring lines cross each other forming an x-pattern to the mooring. A simple rule of thumb is have two long dock lines and two short dock lines in addition to any other mooring lines.

Breast Lines - Larger and heavier boats use the same lines mentioned above, but can also use relatively short lines that connect direct from a boat cleat to the nearest cleat directly across on the dock approximately at a 90 degree angle. Breast Lines are often employed on houseboats in a slip. Breast Lines are sometimes substituted for the use of Spring Lines.

Large Boat in a Slip - When any boat is moored for long periods of time in a slip, use the classical dock lines techniques already mentioned, but often dock lines are utilized on both the port and starboard sides of the boat. Therefore, a large boat may need two bow lines, four spring lines, and two stern lines. Add breast lines as required. Slip Dock Lines are often short due to the close proximity of the cleats on the boat and the dock. Chafe Protection for slip dock lines is highly recommended.

CONCERNING THE DOCK LINE / MOORING LINE TABLE OF PART NUMBERS

Please consider that most of our dock line requests are for double braid nylon construction; however, we can generally utilize any of the rope materials described in Chapter 2 "Rope Selection Guide" and Chapter 5 "Bulk Rope". Secondly, there are additional diameters and rope lengths available upon request. Note that a 300 foot minimum production run may apply. Do not see what you are looking for, just ask.



A nice assortment of custom colored double braided nylon dock lines. Please note the whipping and sewing of the splice and bitter end. All our lines can be specified with whipping and chafe protection. Just let us know what you need.

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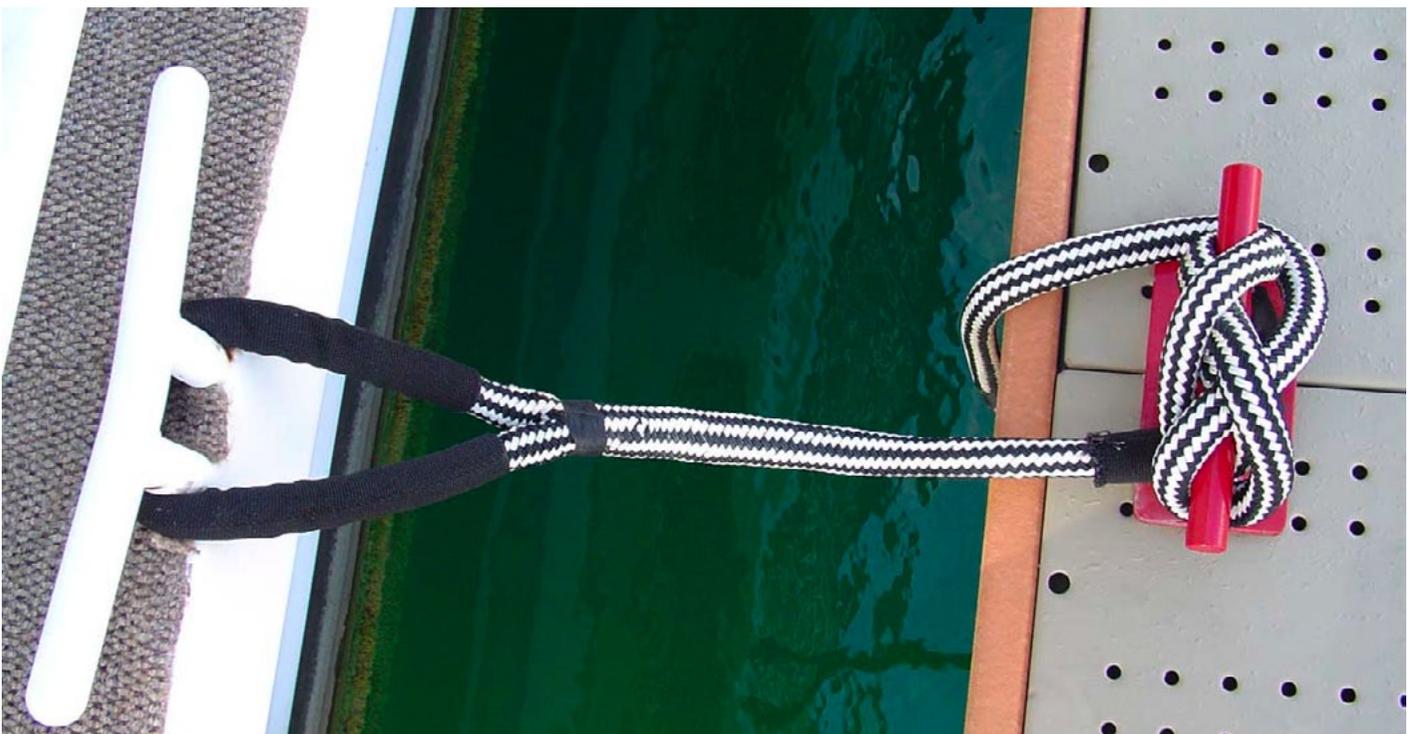
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Above: A beautiful custom colored double braid nylon dock line with a covered eye splice (chafe guard in the eye).



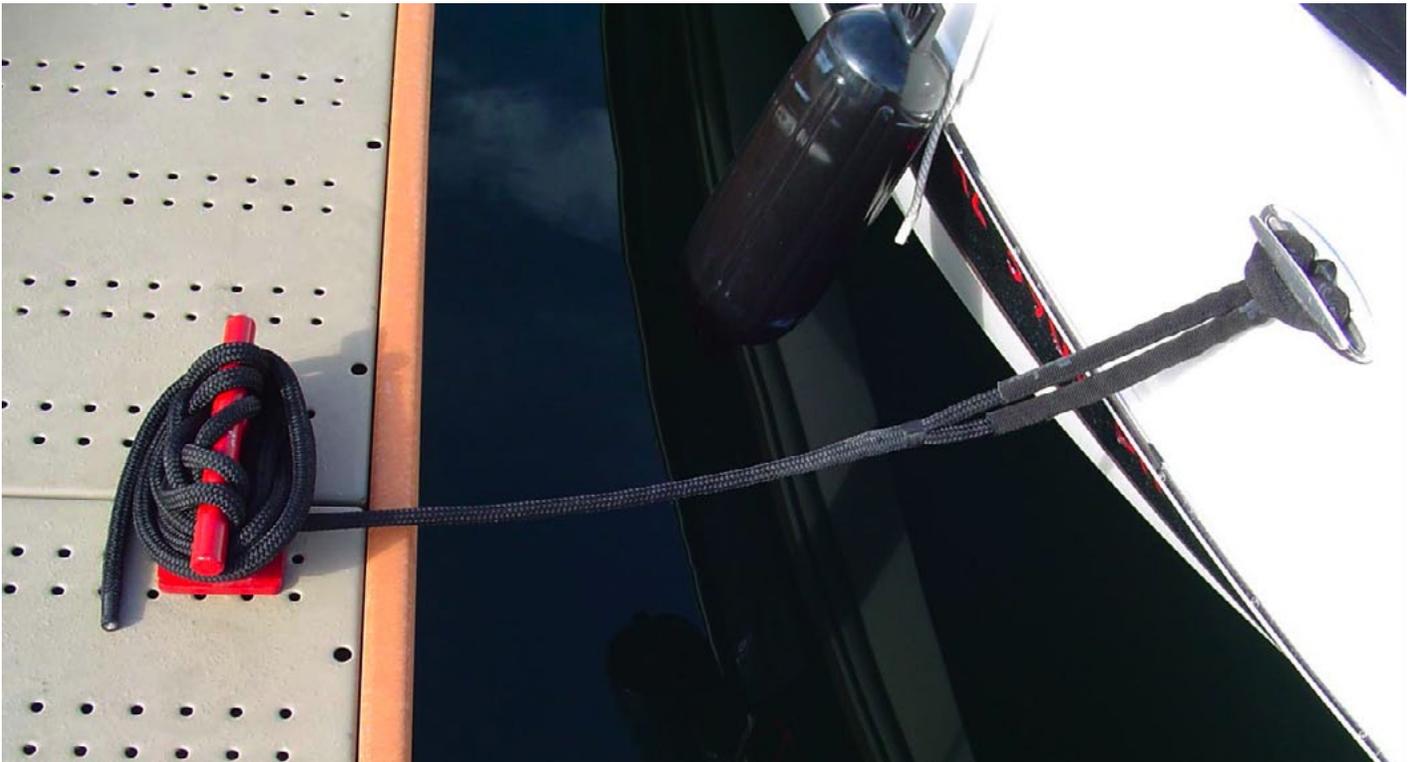
Above: A custom colored double braid nylon dock line for a house boat in a slip. For long term mooring applications please consider to have the eye splice covered with chafe gear "covered eye". If the cleat's fairlead hole is too small for the rope to be pulled back through the center, consider to have the eye splice sized to be about 2/3 the overall length of the cleat.

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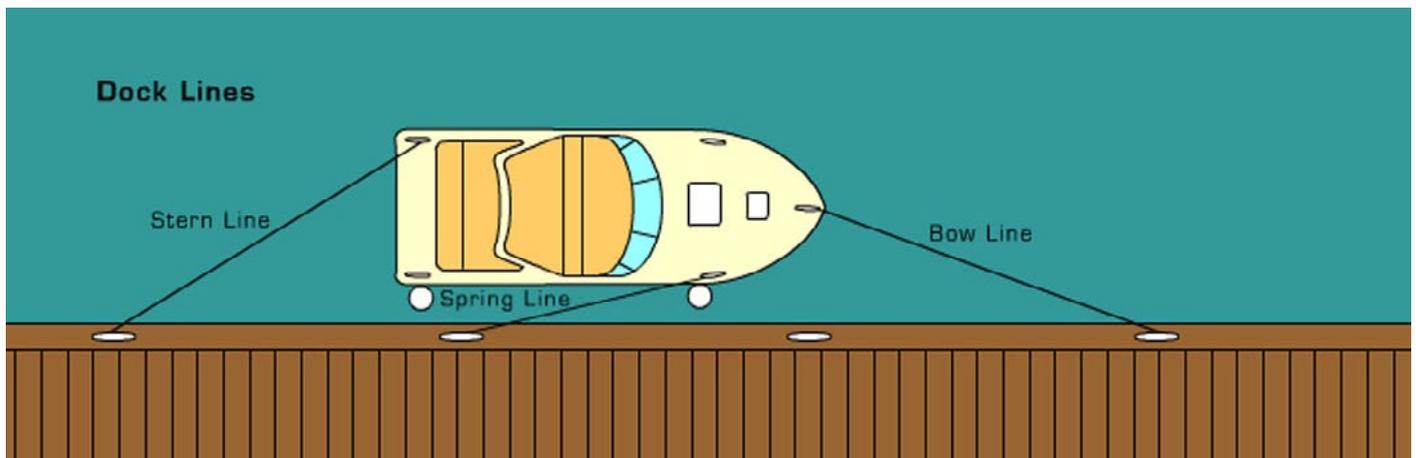
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Above: A double braid nylon dock line for a boat in a slip. In this case, the boat's pop-out cleat fairlead hole is large enough for the covered eye splice to be pulled back through the center for a secure connection.



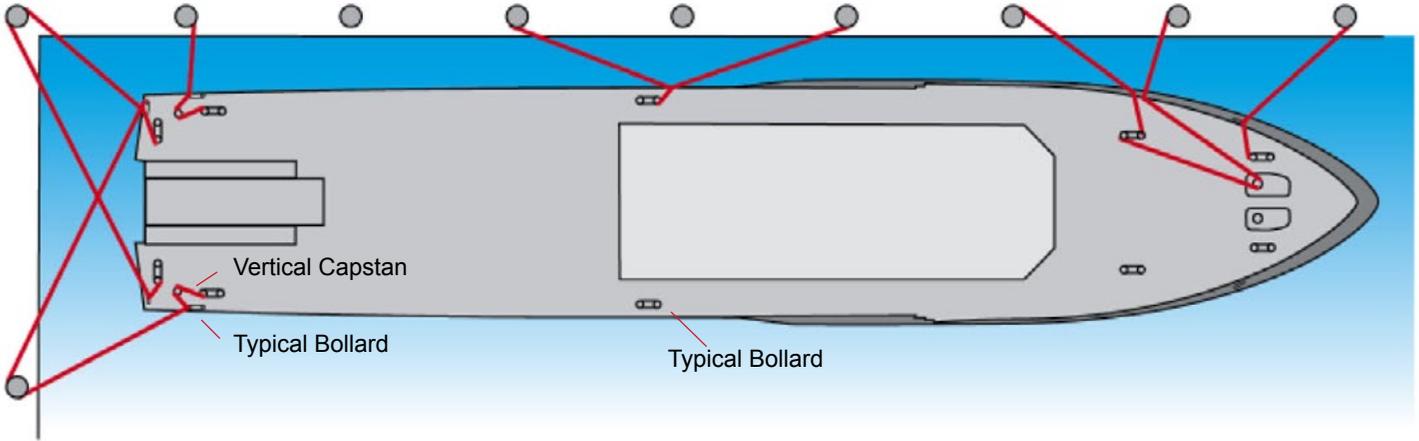
Typical Dock Lines Applied to starboard side of a boat.

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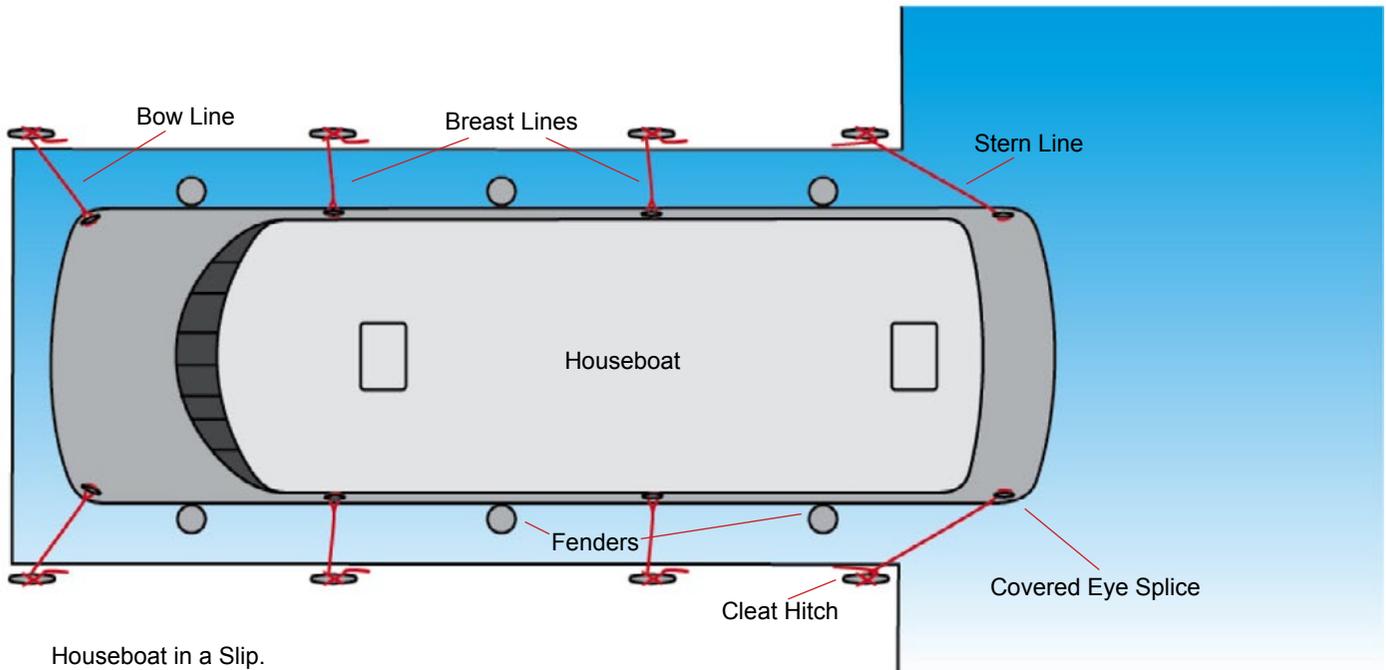
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Large Commercial Boat and its Mooring Lines.



Houseboat in a Slip.

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3/8" Diameter (9.5mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DLB3868	DLB3861	DLB386N	DLB386*	Black = 1
8	DLB3888	DLB3881	DLB388N	DLB388*	Royal Blue = 2
10	DLB38108	DLB38101	DLB3810N	DLB3810*	Burgundy = 3
12	DLB38128	DLB38121	DLB3812N	DLB3812*	Kelly Green = 4
15	DLB38158	DLB38151	DLB3815N	DLB3815*	Orange = 5
18	DLB38188	DLB38181	DLB3818N	DLB3818*	Red = 6
20	DLB38208	DLB38201	DLB3820N	DLB3820*	Yellow = 7
25	DLB38258	DLB38251	DLB3825N	DLB3825*	White = 8
30	DLB38308	DLB38301	DLB3830N	DLB3830*	Gold = 9
35	DLB38358	DLB38351	DLB3835N	DLB3835*	Brown = B
40	DLB38408	DLB38401	DLB3840N	DLB3840*	Gray = G
45	DLB38458	DLB38451	DLB3845N	DLB3845*	Hunter Green = H
50	DLB38508	DLB38501	DLB3850N	DLB3850*	Navy Blue Grey = N
60	DLB38608	DLB38601	DLB3860N	DLB3860*	Purple = P
70	DLB38708	DLB38701	DLB3870N	DLB3870*	Teal = T
100	DLB381008	DLB381001	DLB38100N	DLB38100*	
125	DLB381258	DLB381251	DLB38125N	DLB38125*	
150	DLB381508	DLB381501	DLB38150N	DLB38150*	
200	DLB382008	DLB382001	DLB38200N	DLB38200*	
300	DLB383008	DLB383001	DLB38300N	DLB38300*	

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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1/2" Diameter (12.7mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DLB1268	DLB1261	DLB126N	DLB126*	Black = 1
8	DLB1288	DLB1281	DLB128N	DLB128*	Royal Blue = 2
10	DLB12108	DLB12101	DLB1210N	DLB1210*	Burgundy = 3
12	DLB12128	DLB12121	DLB1212N	DLB1212*	Kelly Green = 4
15	DLB12158	DLB12151	DLB1215N	DLB1215*	Orange = 5
18	DLB12188	DLB12181	DLB1218N	DLB1218*	Red = 6
20	DLB12208	DLB12201	DLB1220N	DLB1220*	Yellow = 7
25	DLB12258	DLB12251	DLB1225N	DLB1225*	White = 8
30	DLB12308	DLB12301	DLB1230N	DLB1230*	Gold = 9
35	DLB12358	DLB12351	DLB1235N	DLB1235*	Brown = B
40	DLB12408	DLB12401	DLB1240N	DLB1240*	Gray = G
45	DLB12458	DLB12451	DLB1245N	DLB1245*	Hunter Green = H
50	DLB12508	DLB12501	DLB1250N	DLB1250*	Navy Blue Grey = N
60	DLB12608	DLB12601	DLB1260N	DLB1260*	Purple = P
70	DLB12708	DLB12701	DLB1270N	DLB1270*	Teal = T
100	DLB121008	DLB121001	DLB12100N	DLB12100*	
125	DLB121258	DLB121251	DLB12125N	DLB12125*	
150	DLB121508	DLB121501	DLB12150N	DLB12150*	
200	DLB122008	DLB122001	DLB12200N	DLB12200*	
300	DLB123008	DLB123001	DLB12300N	DLB12300*	

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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5/8" Diameter (15.9mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DLB3868	DLB3861	DLB386N	DLB386*	Black = 1
8	DLB3888	DLB3881	DLB388N	DLB388*	Royal Blue = 2
10	DLB38108	DLB38101	DLB3810N	DLB3810*	Burgundy = 3
12	DLB38128	DLB38121	DLB3812N	DLB3812*	Kelly Green = 4
15	DLB38158	DLB38151	DLB3815N	DLB3815*	Orange = 5
18	DLB38188	DLB38181	DLB3818N	DLB3818*	Red = 6
20	DLB38208	DLB38201	DLB3820N	DLB3820*	Yellow = 7
25	DLB38258	DLB38251	DLB3825N	DLB3825*	White = 8
30	DLB38308	DLB38301	DLB3830N	DLB3830*	Gold = 9
35	DLB38358	DLB38351	DLB3835N	DLB3835*	Brown = B
40	DLB38408	DLB38401	DLB3840N	DLB3840*	Gray = G
45	DLB38458	DLB38451	DLB3845N	DLB3845*	Hunter Green = H
50	DLB38508	DLB38501	DLB3850N	DLB3850*	Navy Blue Grey = N
60	DLB38608	DLB38601	DLB3860N	DLB3860*	Purple = P
70	DLB38708	DLB38701	DLB3870N	DLB3870*	Teal = T
100	DLB381008	DLB381001	DLB38100N	DLB38100*	
125	DLB381258	DLB381251	DLB38125N	DLB38125*	
150	DLB381508	DLB381501	DLB38150N	DLB38150*	
200	DLB382008	DLB382001	DLB38200N	DLB38200*	
300	DLB383008	DLB383001	DLB38300N	DLB38300*	

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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3/4" Diameter (19.1mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DLB3468	DLB3461	DLB346N	DLB346*	Black = 1
8	DLB3488	DLB3481	DLB348N	DLB348*	Royal Blue = 2
10	DLB34108	DLB34101	DLB3410N	DLB3410*	Burgundy = 3
12	DLB34348	DLB34341	DLB3434N	DLB3434*	Kelly Green = 4
15	DLB34134	DLB34151	DLB3415N	DLB3415*	Orange = 5
18	DLB34188	DLB34181	DLB3418N	DLB3418*	Red = 6
20	DLB34208	DLB34201	DLB3420N	DLB3420*	Yellow = 7
25	DLB34234	DLB34251	DLB3425N	DLB3425*	White = 8
30	DLB34308	DLB34301	DLB3430N	DLB3430*	Gold = 9
35	DLB34334	DLB34351	DLB3435N	DLB3435*	Brown = B
40	DLB34408	DLB34401	DLB3440N	DLB3440*	Gray = G
45	DLB34434	DLB34451	DLB3445N	DLB3445*	Hunter Green = H
50	DLB34508	DLB34501	DLB3450N	DLB3450*	Navy Blue Grey = N
60	DLB34608	DLB34601	DLB3460N	DLB3460*	Purple = P
70	DLB34708	DLB34701	DLB3470N	DLB3470*	Teal = T
100	DLB341008	DLB341001	DLB34100N	DLB34100*	
125	DLB343434	DLB343451	DLB34345N	DLB34345*	
150	DLB341508	DLB341501	DLB34150N	DLB34150*	
200	DLB342008	DLB342001	DLB34200N	DLB34200*	
300	DLB343008	DLB343001	DLB34300N	DLB34300*	

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

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7/8" Diameter (22.2mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DLB7868	DLB7861	DLB786N	DLB786*	Black = 1
8	DLB7888	DLB7881	DLB788N	DLB788*	Royal Blue = 2
10	DLB78108	DLB78101	DLB7810N	DLB7810*	Burgundy = 3
12	DLB78788	DLB78781	DLB7878N	DLB7878*	Kelly Green = 4
15	DLB78178	DLB78151	DLB7815N	DLB7815*	Orange = 5
18	DLB78188	DLB78181	DLB7818N	DLB7818*	Red = 6
20	DLB78208	DLB78201	DLB7820N	DLB7820*	Yellow = 7
25	DLB78278	DLB78251	DLB7825N	DLB7825*	White = 8
30	DLB78308	DLB78301	DLB7830N	DLB7830*	Gold = 9
35	DLB78378	DLB78351	DLB7835N	DLB7835*	Brown = B
40	DLB78408	DLB78401	DLB7840N	DLB7840*	Gray = G
45	DLB78478	DLB78451	DLB7845N	DLB7845*	Hunter Green = H
50	DLB78508	DLB78501	DLB7850N	DLB7850*	Navy Blue Grey = N
60	DLB78608	DLB78601	DLB7860N	DLB7860*	Purple = P
70	DLB78708	DLB78701	DLB7870N	DLB7870*	Teal = T
100	DLB781008	DLB781001	DLB78100N	DLB78100*	
125	DLB787878	DLB787851	DLB78785N	DLB78785*	
150	DLB781508	DLB781501	DLB78150N	DLB78150*	
200	DLB782008	DLB782001	DLB78200N	DLB78200*	
300	DLB783008	DLB783001	DLB78300N	DLB78300*	

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

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1-0" Diameter (25.4mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					Black = 1
8	DLB188	DLB181	DLB18N	DLB18*	Royal Blue = 2
10	DLB1108	DLB1101	DLB110N	DLB110*	Burgundy = 3
12	DLB118	DLB111	DLB11N	DLB11*	Kelly Green = 4
15	DLB111	DLB1151	DLB115N	DLB115*	Orange = 5
18	DLB1188	DLB1181	DLB118N	DLB118*	Red = 6
20	DLB1208	DLB1201	DLB120N	DLB120*	Yellow = 7
25	DLB121	DLB1251	DLB125N	DLB125*	White = 8
30	DLB1308	DLB1301	DLB130N	DLB130*	Gold = 9
35	DLB131	DLB1351	DLB135N	DLB135*	Brown = B
40	DLB1408	DLB1401	DLB140N	DLB140*	Gray = G
45	DLB141	DLB1451	DLB145N	DLB145*	Hunter Green = H
50	DLB1508	DLB1501	DLB150N	DLB150*	Navy Blue Grey = N
60	DLB1608	DLB1601	DLB160N	DLB160*	Purple = P
70	DLB1708	DLB1701	DLB170N	DLB170*	Teal = T
100	DLB11008	DLB11001	DLB1100N	DLB1100*	
125	DLB111	DLB1151	DLB115N	DLB115*	
150	DLB11508	DLB11501	DLB1150N	DLB1150*	
200	DLB12008	DLB12001	DLB1200N	DLB1200*	
300	DLB13008	DLB13001	DLB1300N	DLB1300*	

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
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1-1/4" Diameter (31.8mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					Black = 1
8	DLB11488	DLB11481	DLB1148N	DLB1148*	Royal Blue = 2
10	DLB114108	DLB114101	DLB11410N	DLB11410*	Burgundy = 3
12	DLB11418	DLB11411	DLB1141N	DLB1141*	Kelly Green = 4
15	DLB11411	DLB114151	DLB11415N	DLB11415*	Orange = 5
18	DLB114188	DLB114181	DLB11418N	DLB11418*	Red = 6
20	DLB114208	DLB114201	DLB11420N	DLB11420*	Yellow = 7
25	DLB11421	DLB114251	DLB11425N	DLB11425*	White = 8
30	DLB114308	DLB114301	DLB11430N	DLB11430*	Gold = 9
35	DLB11431	DLB114351	DLB11435N	DLB11435*	Brown = B
40	DLB114408	DLB114401	DLB11440N	DLB11440*	Gray = G
45	DLB11441	DLB114451	DLB11445N	DLB11445*	Hunter Green = H
50	DLB114508	DLB114501	DLB11450N	DLB11450*	Navy Blue Grey = N
60	DLB114608	DLB114601	DLB11460N	DLB11460*	Purple = P
70	DLB114708	DLB114701	DLB11470N	DLB11470*	Teal = T
100	DLB1141008	DLB1141001	DLB114100N	DLB114100*	
125	DLB11411	DLB114151	DLB11415N	DLB11415*	
150	DLB1141508	DLB1141501	DLB114150N	DLB114150*	
200	DLB1142008	DLB1142001	DLB114200N	DLB114200*	
300	DLB1143008	DLB1143001	DLB114300N	DLB114300*	

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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**The Best Custom Boat Lines, Custom Colored Ropes,
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1-1/2" Diameter (38.1mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					Black = 1
8					Royal Blue = 2
10	DLB112108	DLB112101	DLB11210N	DLB11210*	Burgundy = 3
12	DLB11218	DLB11211	DLB1121N	DLB1121*	Kelly Green = 4
15	DLB11211	DLB112151	DLB11215N	DLB11215*	Orange = 5
18	DLB112188	DLB112181	DLB11218N	DLB11218*	Red = 6
20	DLB112208	DLB112201	DLB11220N	DLB11220*	Yellow = 7
25	DLB11221	DLB112251	DLB11225N	DLB11225*	White = 8
30	DLB112308	DLB112301	DLB11230N	DLB11230*	Gold = 9
35	DLB11231	DLB112351	DLB11235N	DLB11235*	Brown = B
40	DLB112408	DLB112401	DLB11240N	DLB11240*	Gray = G
45	DLB11241	DLB112451	DLB11245N	DLB11245*	Hunter Green = H
50	DLB112508	DLB112501	DLB11250N	DLB11250*	Navy Blue Grey = N
60	DLB112608	DLB112601	DLB11260N	DLB11260*	Purple = P
70	DLB112708	DLB112701	DLB11270N	DLB11270*	Teal = T
100	DLB1121008	DLB1121001	DLB112100N	DLB112100*	
125	DLB11211	DLB112151	DLB11215N	DLB11215*	
150	DLB1121508	DLB1121501	DLB112150N	DLB112150*	
200	DLB1122008	DLB1122001	DLB112200N	DLB112200*	
300	DLB1123008	DLB1123001	DLB112300N	DLB112300*	

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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2-0" Diameter (50.8mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					Black = 1
8					Royal Blue = 2
10	DLB2108	DLB2101	DLB210N	DLB210*	Burgundy = 3
12	DLB218	DLB211	DLB21N	DLB21*	Kelly Green = 4
15	DLB211	DLB2151	DLB215N	DLB215*	Orange = 5
18	DLB2188	DLB2181	DLB218N	DLB218*	Red = 6
20	DLB2208	DLB2201	DLB220N	DLB220*	Yellow = 7
25	DLB221	DLB2251	DLB225N	DLB225*	White = 8
30	DLB2308	DLB2301	DLB230N	DLB230*	Gold = 9
35	DLB231	DLB2351	DLB235N	DLB235*	Brown = B
40	DLB2408	DLB2401	DLB240N	DLB240*	Gray = G
45	DLB241	DLB2451	DLB245N	DLB245*	Hunter Green = H
50	DLB2508	DLB2501	DLB250N	DLB250*	Navy Blue Grey = N
60	DLB2608	DLB2601	DLB260N	DLB260*	Purple = P
70	DLB2708	DLB2701	DLB270N	DLB270*	Teal = T
100	DLB21008	DLB21001	DLB2100N	DLB2100*	
125	DLB211	DLB2151	DLB215N	DLB215*	
150	DLB21508	DLB21501	DLB2150N	DLB2150*	
200	DLB22008	DLB22001	DLB2200N	DLB2200*	
300	DLB23008	DLB23001	DLB2300N	DLB2300*	

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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3/8" Diameter (9.5mm) NYLON 3-STRAND TWISTED

Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DL3868	DL3861			Black = 1
8	DL3888	DL3881			White = 8
10	DL38108	DL38101			
12	DL38128	DL38121			
15	DL38158	DL38151			
18	DL38188	DL38181			
20	DL38208	DL38201			
25	DL38258	DL38251			
30	DL38308	DL38301			
35	DL38358	DL38351			
40	DL38408	DL38401			
45	DL38458	DL38451			
50	DL38508	DL38501			
60	DL38608	DL38601			
70	DL38708	DL38701			
100	DL381008	DL381001			
125	DL381258	DL381251			
150	DL381508	DL381501			
200	DL382008	DL382001			
300	DL383008	DL383001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines).

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1/2" Diameter (12.7mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DL1268	DL1261			Black = 1
8	DL1288	DL1281			White = 8
10	DL12108	DL12101			
12	DL12128	DL12121			
15	DL12158	DL12151			
18	DL12188	DL12181			
20	DL12208	DL12201			
25	DL12258	DL12251			
30	DL12308	DL12301			
35	DL12358	DL12351			
40	DL12408	DL12401			
45	DL12458	DL12451			
50	DL12508	DL12501			
60	DL12608	DL12601			
70	DL12708	DL12701			
100	DL121008	DL121001			
125	DL121258	DL121251			
150	DL121508	DL121501			
200	DL122008	DL122001			
300	DL123008	DL123001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines).

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5/8" Diameter (15.9mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DL5868	DL5861			Black = 1
8	DL5888	DL5881			White = 8
10	DL58108	DL58101			
12	DL58588	DL58581			
15	DL58158	DL58151			
18	DL58188	DL58181			
20	DL58208	DL58201			
25	DL58258	DL58251			
30	DL58308	DL58301			
35	DL58358	DL58351			
40	DL58408	DL58401			
45	DL58458	DL58451			
50	DL58508	DL58501			
60	DL58608	DL58601			
70	DL58708	DL58701			
100	DL581008	DL581001			
125	DL585858	DL585851			
150	DL581508	DL581501			
200	DL582008	DL582001			
300	DL583008	DL583001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines).

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3/4" Diameter (19.1mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DL3468	DL3461			Black = 1
8	DL3488	DL3481			White = 8
10	DL34108	DL34101			
12	DL34348	DL34341			
15	DL34134	DL34151			
18	DL34188	DL34181			
20	DL34208	DL34201			
25	DL34234	DL34251			
30	DL34308	DL34301			
35	DL34334	DL34351			
40	DL34408	DL34401			
45	DL34434	DL34451			
50	DL34508	DL34501			
60	DL34608	DL34601			
70	DL34708	DL34701			
100	DL341008	DL341001			
125	DL343434	DL343451			
150	DL341508	DL341501			
200	DL342008	DL342001			
300	DL343008	DL343001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines).

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7/8" Diameter (22.2mm) NYLON 3-STRAND TWISTED

Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DL7868	DL7861			Black = 1
8	DL7888	DL7881			White = 8
10	DL78108	DL78101			
12	DL78348	DL78341			
15	DL78134	DL78151			
18	DL78188	DL78181			
20	DL78208	DL78201			
25	DL78234	DL78251			
30	DL78308	DL78301			
35	DL78334	DL78351			
40	DL78408	DL78401			
45	DL78434	DL78451			
50	DL78508	DL78501			
60	DL78608	DL78601			
70	DL78708	DL78701			
100	DL781008	DL781001			
125	DL783434	DL783451			
150	DL781508	DL781501			
200	DL782008	DL782001			
300	DL783008	DL783001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines).

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1-0" Diameter (25.4mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6	DL168	DL161			Black = 1
8	DL188	DL181			White = 8
10	DL1108	DL1101			
12	DL1348	DL1341			
15	DL1134	DL1151			
18	DL1188	DL1181			
20	DL1208	DL1201			
25	DL1234	DL1251			
30	DL1308	DL1301			
35	DL1334	DL1351			
40	DL1408	DL1401			
45	DL1434	DL1451			
50	DL1508	DL1501			
60	DL1608	DL1601			
70	DL1708	DL1701			
100	DL11008	DL11001			
125	DL13434	DL13451			
150	DL11508	DL11501			
200	DL12008	DL12001			
300	DL13008	DL13001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines).

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1-1/4" Diameter (31.8mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					Black = 1
8	DL188	DL181			White = 8
10	DL1108	DL1101			
12	DL1348	DL1341			
15	DL1134	DL1151			
18	DL1188	DL1181			
20	DL1208	DL1201			
25	DL1234	DL1251			
30	DL1308	DL1301			
35	DL1334	DL1351			
40	DL1408	DL1401			
45	DL1434	DL1451			
50	DL1508	DL1501			
60	DL1608	DL1601			
70	DL1708	DL1701			
100	DL11008	DL11001			
125	DL13434	DL13451			
150	DL11508	DL11501			
200	DL12008	DL12001			
300	DL13008	DL13001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines).

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1-1/2" Diameter (38.1mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					White = 8
8					
10	DL1108				
12	DL1348				
15	DL1134				
18	DL1188				
20	DL1208				
25	DL1234				
30	DL1308				
35	DL1334				
40	DL1408				
45	DL1434				
50	DL1508				
60	DL1608				
70	DL1708				
100	DL11008				
125	DL13434				
150	DL11508				
200	DL12008				
300	DL13008				

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

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2-0" Diameter (50.8mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					White = 8
8					
10	DL1108				
12	DL1348				
15	DL1134				
18	DL1188				
20	DL1208				
25	DL1234				
30	DL1308				
35	DL1334				
40	DL1408				
45	DL1434				
50	DL1508				
60	DL1608				
70	DL1708				
100	DL11008				
125	DL13434				
150	DL11508				
200	DL12008				
300	DL13008				

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines).

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3/8" Diameter (9.5mm) NYLON DOUBLE BRAID - (Imported Overseas)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					
8					
10					
12					
15	DLBV38158	DLBV38151	DLBV3815N	DLBV38152	w 12" eye splice
18					
20	DLBV38208	DLBV38201	DLBV3820N	DLBV38202	w 12" eye splice
25					
30					
35					
40					
45					
50					
60					
70					
100					
125					
150					
200					
300					

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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1/2" Diameter (12.7mm) NYLON DOUBLE BRAID - (Imported Overseas)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					
8					
10					
12					
15					
18					
20	DLBV12208	DLBV12201	DLBV1220N	DLBV12202	w 12" eye splice
25	DLBV12258	DLBV12251	DLBV1225N	DLBV12252	w 12" eye splice
30	DLBV12308	DLBV12301	DLBV1230N	DLBV12302	w 12" eye splice
35					
40					
45					
50					
60					
70					
100					
125					
150					
200					
300					

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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5/8" Diameter (15.9mm) NYLON DOUBLE BRAID - (Imported Overseas)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
6					
8					
10					
12					
15					
18					
20					
25	DLBV58258	DLBV58251	DLBV5825N	DLBV58252	w 12" eye splice
30	DLBV58308	DLBV58301	DLBV5830N	DLBV58302	w 12" eye splice
35					
40					
45					
50					
60					
70					
100					
125					
150					
200					
300					

Dock Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Choose Loop / Eye Splice Size (9", 12", 18", 24", etc). Measure your cleats (perform test fit) to determine what loop / eye size will work best to secure your boat. We assume the other end of the dock line is bitter.
5. Choose Optional Black Nylon Cordura Chafe Guard "Covered Eye". Additional locations upon request (i.e. chock protection). Chafe Guard is strongly recommended for Long Term Mooring applications.
6. Choose Quantity of Dock Lines
7. Repeat Selection Process for each type of Dock Line (bow, stern, spring, mooring lines, houseboat shore lines, etc)

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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8 - ANCHOR LINES

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Common Definitions & Nautical Terms

Thimble (Hard Eye) — Anchor Lines are provided with a thimble eye splice on one end, which provides for chafe protection for an anchor shackle. An anchor shackle connects the thimble eye of the anchor line directly to the anchor or in most applications a chain rode. 3, 8, and 12-strand strand nylon anchor lines can be spliced directly to the chain rode. The bitter end (free end) of the anchor line is made fast to the boat's cleat or bow eye ring and the slack adjusted for tension (slack removed) using a cleat hitch.

Capstan — Boats may be provided with a vertical-axled rotating machine for adjusting anchor rodes and mooring lines. Capstans are more liberal as to the type of rope construction they can be applied to.

Windlass — Boats may be provided with a horizontal-axled rotating machine for adjusting anchor rodes and mooring lines. Windlasses are more specific to the type of rope construction. A windlass might well be provided with a chain gypsy or wildcat for hauling in the windlass anchor chain. The Windlass manufacturer is very specific to what style of chain link that can fit their gypsy or wildcat.

Winch — Boats may be provided with a hand-cranked rotating machine for adjusting boat lines (halyard lines on a sailboat). Winches are more liberal as to the type of rope construction they can be applied to.

Proof Coil Anchor Chain — For many applications, a long nylon anchor line connected to a chain rode is adequate. Boats without a windlass can use standard Proof Coil Anchor Chain.

Windlass Anchor Chain Larger boats; especially, ocean going are provided with a chain windlass. Windlasses require either BBB Chain or G4 High Test Chain depending on the manufacturer's specifications. The type of rope construction is also specified by the windlass manufacturer.

Rode Chain has two purposes. First, the chain portion of the rode will resist chafe that would otherwise occur if a nylon line was lying along the bottom. Secondly, the weight of the chain portion has the effect of keeping the angle of pull on the anchor low, which keeps the anchor flukes dug in.

Anchor Rode Package — An example of a windlass rode package is 200-600 feet of windlass grade 3-strand twisted nylon, 8 or 12-strand plaited nylon line spliced directly to 6 to 25 feet of 1/4" – 1/2" windlass specified chain (G4 HT or BBB). The chain is connected via a shackle or anchor swivel to an adequately sized anchor. Seize the shackle pin with a nylon cable tie or s/s wire. If the boat does not have a windlass, one can use double braid nylon or standard 3-strand nylon with proof coil anchor chain.

Scope is defined as the ratio of water depth (draft plus freeboard) divided into the length of anchor line paid out. The typical minimum scope is from 3-5 with 7 being the best practical. The larger the scope ratio, the better the holding power of the anchor because the angle of pull on the flukes remains low. However, during a bad storm an even larger scope should be used i.e. (10:1).

Scope Ratio Example — For a 40ft water depth (including draft and freeboard) and a scope ratio of 5 desired, then the length of anchor line to be paid out is 200ft (5 x 40).

Small Scope Ratio increases the angle of pull and reduces the holding power of the anchor flukes. Heavy rode chain and can be used to mitigate this from occurring. The heavier chain will help keep the angle of pull low when the scope ratio is low.

Scope Holding Power — Consider the following scope ratios and % anchor holding power: 2:1=10%, 3:1=40%, 5:1=70%, 10:1=100%.

Wind Speed — As the wind speed doubles the holding power of the anchor quadruples. Consider having a spare emergency anchor / anchor line available in case an anchor line gets cut, gets stuck, and or for bad storm conditions (storm lines / storm anchor lines).

Equipment — The anchoring system includes any of the following: anchor line, capstan, windlass, winch, deck cleat, anchor chain, shackles, splices, thimbles, and the anchor. All of these should be checked regularly for wear and all be sized properly.

Anchor Setting and Retrieval — With the line paid out at the proper scope, back down on the anchor line very slowly and confirm the anchor is set. To retrieve move over the anchor pulling the slack up. Snub the line on a cleat and back down to pull the anchor out.

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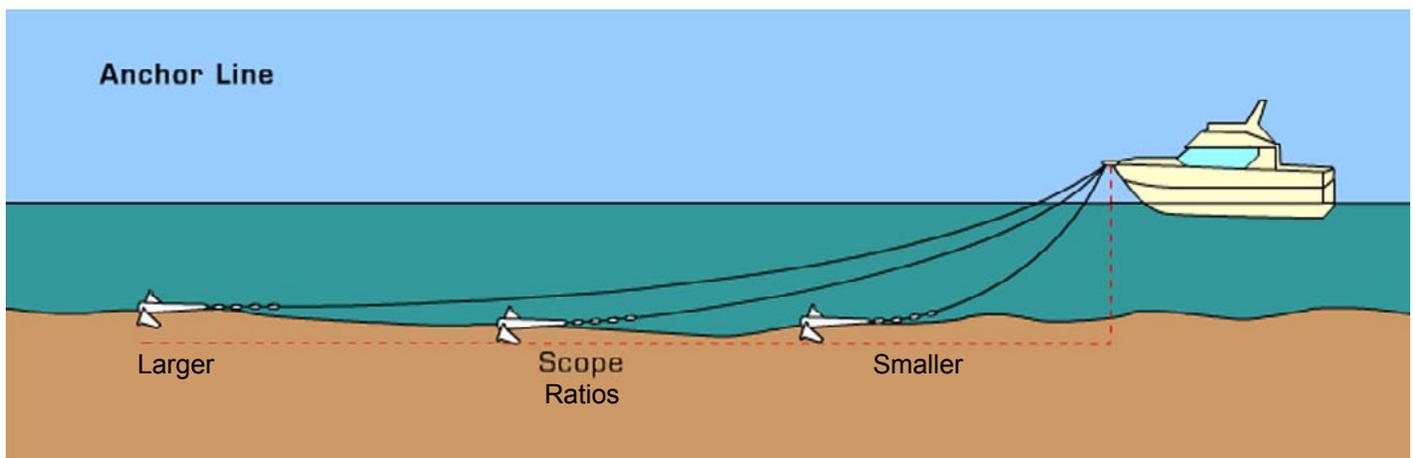
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Augers (shoreline applications) — As an alternate to using anchors, a boat owner may use augers. Set one auger to the lake bottom to secure the bow and set another auger on shore to secure the stern. Here a variety of mooring lines can be utilized like anchor lines, dock lines, plain straight lines, and or custom mooring lines. The bow line may have a chain rode attached. Both mooring lines might well be fitted with buoys or rope floats; especially, the bow connection. The bow and stern lines will have some type of hardware required to make the connections to the boat like swivel eye hooks or spring clips.

Shoreline Mooring (Shore Lines) - For many inland applications, a power boat is moored from the lake shore where the bow faces outward to the lake and the stern faces the shore. The bow is moored using an anchor line secured to the lake bottom, while the stern is moored to an anchor line secured to the shoreline. The bow mooring line may have a chain rode attached. Both mooring lines might well be fitted with buoys or rope floats; especially, the bow connection. Note, Augers can be used instead of anchors for this application. The bow and stern lines will have some type of hardware required to make the connections to the boat like swivel eye hooks or spring clips.

Concerning The Anchor Line / Mooring Line Table Of Part Numbers - Please consider that many of our anchor line requests are for double braid nylon construction; however, we can generally utilize any of the rope materials described in Chapter 2 "Rope Selection Guide" and Chapter 5 "Bulk Rope". Most common examples are for custom made-to-order windlass anchor rode assemblies using 3-strand heat set nylon rope, 8-strand nylon plait, 12-strand nylon plait, with a direct splice to some custom length of chain rode, and associated hardware. Note there are additional diameters and rope lengths available upon request. Note that a 300 foot minimum production run may apply. Do not see what you are looking for, just ask.

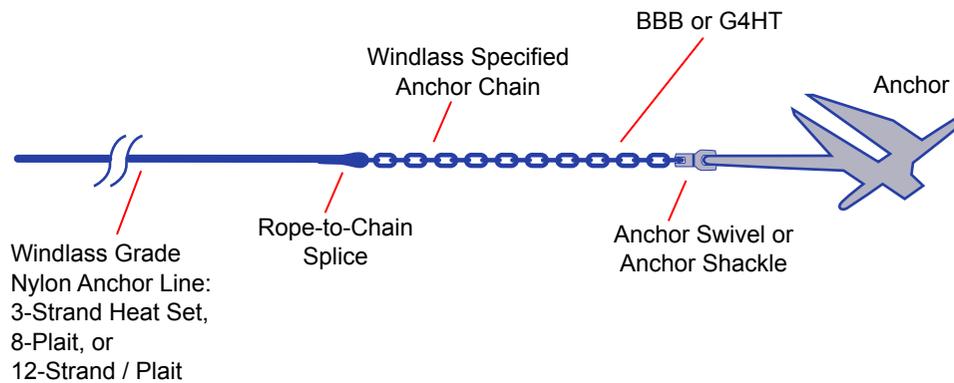
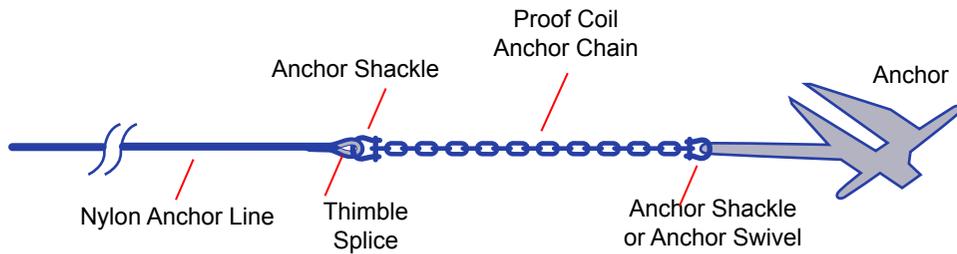


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Above: A stainless steel thimble splice and bow shackle, which can be used to connect to a length of proof coil anchor chain or directly to an anchor. In this case the rope is black double braid nylon rope “yacht braid”. Note the hand sewing and whipping of the thimble splice. There are a wide selection of hardware and rope construction options available to pleasure marine applications (non-windlass and non-capstan applications). Give us a call to discuss your requirements.

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Above: A Direct Rope-to-Chain Splice most often applied to Windlass and Capstan applications utilizing 3-Strand Heat Set, 8-Strand Plait, or 12-Strand Plait white nylon rope. The chain link size is most often either BBB or G4HT. Consult the windlass or capstan manufacturer owner's manual to determine the rope and chain requirements.



Above: We offer a selection of high performance stainless steel anchor swivels most often used to connected the anchor chain to the anchor. The premium high performance streamlined designs above are most often applied to applied to Windlass and Capstan applications, but can also be applied to pleasure marine applications. We also offer a wide selection of standard swivels in various combinations (eye / jaw) in either galvanized or stainless steel. All our Anchor Lines / Anchor Rodes are custom made-to-order.

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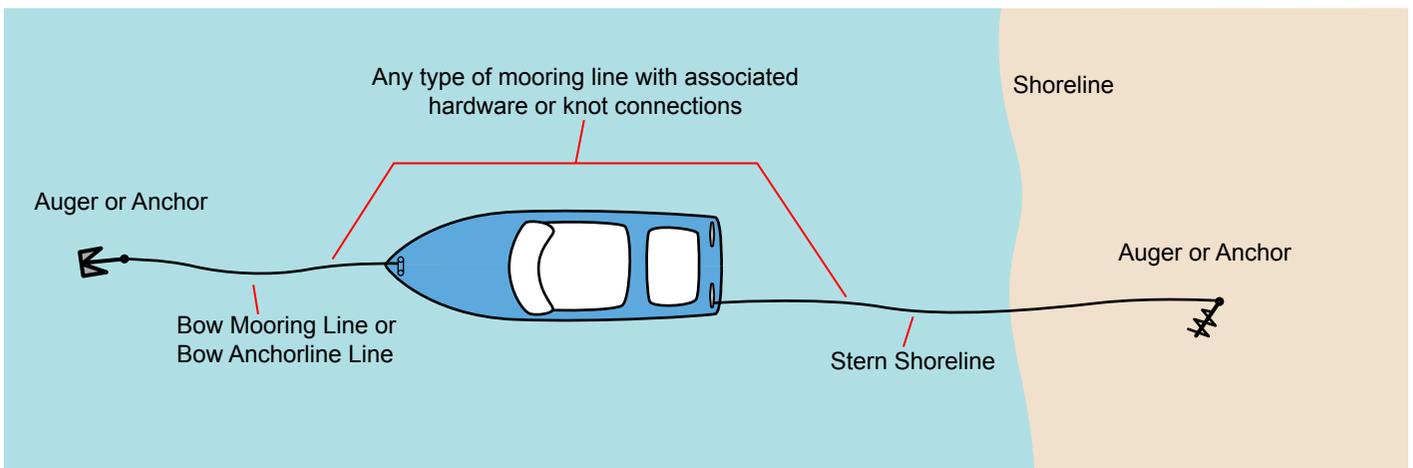
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Above: An example of a Capstan on the bow area of a boat. The anchor rode drops down through the guide hole fitting into the anchor locker. In this example, a galvanized anchor shackle is connected to a standard type eye-and-jaw anchor swivel, which connects to the anchor.



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3/8" Diameter (9.5mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	ALB38508	ALB38501	ALB3850N	ALB3850*	Black = 1
75	ALB38758	ALB38751	ALB3875N	ALB3875*	Royal Blue = 2
100	ALB381008	ALB381001	ALB38100N	ALB38100*	Burgundy = 3
150	ALB381508	ALB381501	ALB38150N	ALB38150*	Kelly Green = 4
200	ALB382008	ALB382001	ALB38200N	ALB38200*	Orange = 5
250	ALB382508	ALB382501	ALB38250N	ALB38250*	Red = 6
300	ALB383008	ALB383001	ALB38300N	ALB38300*	Yellow = 7
350	ALB383508	ALB383501	ALB38350N	ALB38350*	White = 8
400	ALB384008	ALB384001	ALB38400N	ALB38400*	Gold = 9
450	ALB384508	ALB384501	ALB38450N	ALB38450*	Brown = B
500	ALB385008	ALB385001	ALB38500N	ALB38500*	Gray = G
600	ALB386008	ALB386001	ALB38600N	ALB38600*	Hunter Green = H
750	ALB387508	ALB387501	ALB38750N	ALB38750*	Navy Blue Grey = N
900	ALB389008	ALB389001	ALB38900N	ALB38900*	Purple = P
1,200	ALB3812008	ALB3812001	ALB381200N	ALB381200*	Teal = T

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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1/2" Diameter (12.7mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	ALB12508	ALB12501	ALB1250N	ALB1250*	Black = 1
75	ALB12758	ALB12751	ALB1275N	ALB1275*	Royal Blue = 2
100	ALB121008	ALB121001	ALB12100N	ALB12100*	Burgundy = 3
150	ALB121508	ALB121501	ALB12150N	ALB12150*	Kelly Green = 4
200	ALB122008	ALB122001	ALB12200N	ALB12200*	Orange = 5
250	ALB122508	ALB122501	ALB12250N	ALB12250*	Red = 6
300	ALB123008	ALB123001	ALB12300N	ALB12300*	Yellow = 7
350	ALB123508	ALB123501	ALB12350N	ALB12350*	White = 8
400	ALB124008	ALB124001	ALB12400N	ALB12400*	Gold = 9
450	ALB124508	ALB124501	ALB12450N	ALB12450*	Brown = B
500	ALB125008	ALB125001	ALB12500N	ALB12500*	Gray = G
600	ALB126008	ALB126001	ALB12600N	ALB12600*	Hunter Green = H
750	ALB127508	ALB127501	ALB12750N	ALB12750*	Navy Blue Grey = N
900	ALB129008	ALB129001	ALB12900N	ALB12900*	Purple = P
1,200	ALB1212008	ALB1212001	ALB121200N	ALB121200*	Teal = T

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

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5/8" Diameter (15.1mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	ALB58508	ALB58501	ALB5850N	ALB5850*	Black = 1
75	ALB58758	ALB58751	ALB5875N	ALB5875*	Royal Blue = 2
100	ALB581008	ALB581001	ALB58100N	ALB58100*	Burgundy = 3
150	ALB581508	ALB581501	ALB58150N	ALB58150*	Kelly Green = 4
200	ALB582008	ALB582001	ALB58200N	ALB58200*	Orange = 5
250	ALB582508	ALB582501	ALB58250N	ALB58250*	Red = 6
300	ALB583008	ALB583001	ALB58300N	ALB58300*	Yellow = 7
350	ALB583508	ALB583501	ALB58350N	ALB58350*	White = 8
400	ALB584008	ALB584001	ALB58400N	ALB58400*	Gold = 9
450	ALB584508	ALB584501	ALB58450N	ALB58450*	Brown = B
500	ALB585008	ALB585001	ALB58500N	ALB58500*	Gray = G
600	ALB586008	ALB586001	ALB58600N	ALB58600*	Hunter Green = H
750	ALB587508	ALB587501	ALB58750N	ALB58750*	Navy Blue Grey = N
900	ALB589008	ALB589001	ALB58900N	ALB58900*	Purple = P
1,200	ALB5812008	ALB5812001	ALB581200N	ALB581200*	Teal = T

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Anchor Line Selection Process

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2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

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3/4" Diameter (19.1mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	ALB34508	ALB34501	ALB3450N	ALB3450*	Black = 1
75	ALB34758	ALB34751	ALB3475N	ALB3475*	Royal Blue = 2
100	ALB341008	ALB341001	ALB34100N	ALB34100*	Burgundy = 3
150	ALB341508	ALB341501	ALB34150N	ALB34150*	Kelly Green = 4
200	ALB342008	ALB342001	ALB34200N	ALB34200*	Orange = 5
250	ALB342508	ALB342501	ALB34250N	ALB34250*	Red = 6
300	ALB343008	ALB343001	ALB34300N	ALB34300*	Yellow = 7
350	ALB343508	ALB343501	ALB34350N	ALB34350*	White = 8
400	ALB344008	ALB344001	ALB34400N	ALB34400*	Gold = 9
450	ALB344508	ALB344501	ALB34450N	ALB34450*	Brown = B
500	ALB345008	ALB345001	ALB34500N	ALB34500*	Gray = G
600	ALB346008	ALB346001	ALB34600N	ALB34600*	Hunter Green = H
750	ALB347508	ALB347501	ALB34750N	ALB34750*	Navy Blue Grey = N
900	ALB349008	ALB349001	ALB34900N	ALB34900*	Purple = P
1,200	ALB3412008	ALB3412001	ALB341200N	ALB341200*	Teal = T

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

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7/8" Diameter (22.2mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	ALB78508	ALB78501	ALB7850N	ALB7850*	Black = 1
75	ALB78758	ALB78751	ALB7875N	ALB7875*	Royal Blue = 2
100	ALB781008	ALB781001	ALB78100N	ALB78100*	Burgundy = 3
150	ALB781508	ALB781501	ALB78150N	ALB78150*	Kelly Green = 4
200	ALB782008	ALB782001	ALB78200N	ALB78200*	Orange = 5
250	ALB782508	ALB782501	ALB78250N	ALB78250*	Red = 6
300	ALB783008	ALB783001	ALB78300N	ALB78300*	Yellow = 7
350	ALB783508	ALB783501	ALB78350N	ALB78350*	White = 8
400	ALB784008	ALB784001	ALB78400N	ALB78400*	Gold = 9
450	ALB784508	ALB784501	ALB78450N	ALB78450*	Brown = B
500	ALB785008	ALB785001	ALB78500N	ALB78500*	Gray = G
600	ALB786008	ALB786001	ALB78600N	ALB78600*	Hunter Green = H
750	ALB787508	ALB787501	ALB78750N	ALB78750*	Navy Blue Grey = N
900	ALB789008	ALB789001	ALB78900N	ALB78900*	Purple = P
1,200	ALB7812008	ALB7812001	ALB781200N	ALB781200*	Teal = T

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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1-0" Diameter (25.4mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	ALB1508	ALB1501	ALB150N	ALB150*	Black = 1
75	ALB1758	ALB1751	ALB175N	ALB175*	Royal Blue = 2
100	ALB11008	ALB11001	ALB1100N	ALB1100*	Burgundy = 3
150	ALB11508	ALB11501	ALB1150N	ALB1150*	Kelly Green = 4
200	ALB12008	ALB12001	ALB1200N	ALB1200*	Orange = 5
250	ALB12508	ALB12501	ALB1250N	ALB1250*	Red = 6
300	ALB13008	ALB13001	ALB1300N	ALB1300*	Yellow = 7
350	ALB13508	ALB13501	ALB1350N	ALB1350*	White = 8
400	ALB14008	ALB14001	ALB1400N	ALB1400*	Gold = 9
450	ALB14508	ALB14501	ALB1450N	ALB1450*	Brown = B
500	ALB15008	ALB15001	ALB1500N	ALB1500*	Gray = G
600	ALB16008	ALB16001	ALB1600N	ALB1600*	Hunter Green = H
750	ALB17508	ALB17501	ALB1750N	ALB1750*	Navy Blue Grey = N
900	ALB19008	ALB19001	ALB1900N	ALB1900*	Purple = P
1,200	ALB112008	ALB112001	ALB11200N	ALB11200*	Teal = T

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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1-1/4" Diameter (31.8mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	ALB114508	ALB114501	ALB11450N	ALB11450*	Black = 1
75	ALB114758	ALB114751	ALB11475N	ALB11475*	Royal Blue = 2
100	ALB1141008	ALB1141001	ALB114100N	ALB114100*	Burgundy = 3
150	ALB1141508	ALB1141501	ALB114150N	ALB114150*	Kelly Green = 4
200	ALB1142008	ALB1142001	ALB114200N	ALB114200*	Orange = 5
250	ALB1142508	ALB1142501	ALB114250N	ALB114250*	Red = 6
300	ALB1143008	ALB1143001	ALB114300N	ALB114300*	Yellow = 7
350	ALB1143508	ALB1143501	ALB114350N	ALB114350*	White = 8
400	ALB1144008	ALB1144001	ALB114400N	ALB114400*	Gold = 9
450	ALB1144508	ALB1144501	ALB114450N	ALB114450*	Brown = B
500	ALB1145008	ALB1145001	ALB114500N	ALB114500*	Gray = G
600	ALB1146008	ALB1146001	ALB114600N	ALB114600*	Hunter Green = H
750	ALB1147508	ALB1147501	ALB114750N	ALB114750*	Navy Blue Grey = N
900	ALB1149008	ALB1149001	ALB114900N	ALB114900*	Purple = P
1,200	ALB11412008	ALB11412001	ALB1141200N	ALB1141200*	Teal = T

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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1-1/2" Diameter (38.1mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	ALB112508	ALB112501	ALB11250N	ALB11250*	Black = 1
75	ALB112758	ALB112751	ALB11275N	ALB11275*	Royal Blue = 2
100	ALB1121008	ALB1121001	ALB112100N	ALB112100*	Burgundy = 3
150	ALB1121508	ALB1121501	ALB112150N	ALB112150*	Kelly Green = 4
200	ALB1122008	ALB1122001	ALB112200N	ALB112200*	Orange = 5
250	ALB1122508	ALB1122501	ALB112250N	ALB112250*	Red = 6
300	ALB1123008	ALB1123001	ALB112300N	ALB112300*	Yellow = 7
350	ALB1123508	ALB1123501	ALB112350N	ALB112350*	White = 8
400	ALB1124008	ALB1124001	ALB112400N	ALB112400*	Gold = 9
450	ALB1124508	ALB1124501	ALB112450N	ALB112450*	Brown = B
500	ALB1125008	ALB1125001	ALB112500N	ALB112500*	Gray = G
600	ALB1126008	ALB1126001	ALB112600N	ALB112600*	Hunter Green = H
750	ALB1127508	ALB1127501	ALB112750N	ALB112750*	Navy Blue Grey = N
900	ALB1129008	ALB1129001	ALB112900N	ALB112900*	Purple = P
1,200	ALB11212008	ALB11212001	ALB1121200N	ALB1121200*	Teal = T

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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2-0" Diameter (50.8mm) NYLON DOUBLE BRAID (Yacht Braid)					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	ALB2508	ALB2501	ALB250N	ALB250*	Black = 1
75	ALB2758	ALB2751	ALB275N	ALB275*	Royal Blue = 2
100	ALB21008	ALB21001	ALB2100N	ALB2100*	Burgundy = 3
150	ALB21508	ALB21501	ALB2150N	ALB2150*	Kelly Green = 4
200	ALB22008	ALB22001	ALB2200N	ALB2200*	Orange = 5
250	ALB22508	ALB22501	ALB2250N	ALB2250*	Red = 6
300	ALB23008	ALB23001	ALB2300N	ALB2300*	Yellow = 7
350	ALB23508	ALB23501	ALB2350N	ALB2350*	White = 8
400	ALB24008	ALB24001	ALB2400N	ALB2400*	Gold = 9
450	ALB24508	ALB24501	ALB2450N	ALB2450*	Brown = B
500	ALB25008	ALB25001	ALB2500N	ALB2500*	Gray = G
600	ALB26008	ALB26001	ALB2600N	ALB2600*	Hunter Green = H
750	ALB27508	ALB27501	ALB2750N	ALB2750*	Navy Blue Grey = N
900	ALB29008	ALB29001	ALB2900N	ALB2900*	Purple = P
1,200	ALB212008	ALB212001	ALB21200N	ALB21200*	Teal = T

Additional diameters and rope lengths are available upon request. Our standard in-stock colors are white*, black*, and navy blue grey*. However, we often have additional solid colors available like red, royal blue, hunter green, teal, and several remnant combinations in any given diameter as our inventory fluctuates daily. Colors and combinations that are not normally in-stock, require a total new production run of at least 300 feet in a specific diameter. Give us a call as our colored rope inventory changes on a daily basis.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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3/8" Diameter (9.5mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	AL38508	AL38501			Black = 1
75	AL38758	AL38751			White = 8
100	AL381008	AL381001			
150	AL381508	AL381501			
200	AL382008	AL382001			
250	AL382508	AL382501			
300	AL383008	AL383001			
350	AL383508	AL383501			
400	AL384008	AL384001			
450	AL384508	AL384501			
500	AL385008	AL385001			
600	AL386008	AL386001			
750	AL387508	AL387501			
900	AL389008	AL389001			
1,200	AL3812008	AL3812001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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1/2" Diameter (12.7mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	AL12508	AL12501			Black = 1
75	AL12758	AL12751			White = 8
100	AL121008	AL121001			
150	AL121508	AL121501			
200	AL122008	AL122001			
250	AL122508	AL122501			
300	AL123008	AL123001			
350	AL123508	AL123501			
400	AL124008	AL124001			
450	AL124508	AL124501			
500	AL125008	AL125001			
600	AL126008	AL126001			
750	AL127508	AL127501			
900	AL129008	AL129001			
1,200	AL1212008	AL1212001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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5/8" Diameter (15.9mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	AL58508	AL58501			Black = 1
75	AL58758	AL58751			White = 8
100	AL581008	AL581001			
150	AL581508	AL581501			
200	AL582008	AL582001			
250	AL582508	AL582501			
300	AL583008	AL583001			
350	AL583508	AL583501			
400	AL584008	AL584001			
450	AL584508	AL584501			
500	AL585008	AL585001			
600	AL586008	AL586001			
750	AL587508	AL587501			
900	AL589008	AL589001			
1,200	AL5812008	AL5812001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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3/4" Diameter (19.1mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	AL34508	AL34501			Black = 1
75	AL34758	AL34751			White = 8
100	AL341008	AL341001			
150	AL341508	AL341501			
200	AL342008	AL342001			
250	AL342508	AL342501			
300	AL343008	AL343001			
350	AL343508	AL343501			
400	AL344008	AL344001			
450	AL344508	AL344501			
500	AL345008	AL345001			
600	AL346008	AL346001			
750	AL347508	AL347501			
900	AL349008	AL349001			
1,200	AL3412008	AL3412001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

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7/8" Diameter (22.2mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	AL78508	AL78501			Black = 1
75	AL78758	AL78751			White = 8
100	AL781008	AL781001			
150	AL781508	AL781501			
200	AL782008	AL782001			
250	AL782508	AL782501			
300	AL783008	AL783001			
350	AL783508	AL783501			
400	AL784008	AL784001			
450	AL784508	AL784501			
500	AL785008	AL785001			
600	AL786008	AL786001			
750	AL787508	AL787501			
900	AL789008	AL789001			
1,200	AL7812008	AL7812001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

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1-0" Diameter (25.4mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	AL1508	AL1501			Black = 1
75	AL1758	AL1751			White = 8
100	AL11008	AL11001			
150	AL11508	AL11501			
200	AL12008	AL12001			
250	AL12508	AL12501			
300	AL13008	AL13001			
350	AL13508	AL13501			
400	AL14008	AL14001			
450	AL14508	AL14501			
500	AL15008	AL15001			
600	AL16008	AL16001			
750	AL17508	AL17501			
900	AL19008	AL19001			
1,200	AL112008	AL112001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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1-1/4" Diameter (31.8mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	AL114508	AL114501			Black = 1
75	AL114758	AL114751			White = 8
100	AL1141008	AL1141001			
150	AL1141508	AL1141501			
200	AL1142008	AL1142001			
250	AL1142508	AL1142501			
300	AL1143008	AL1143001			
350	AL1143508	AL1143501			
400	AL1144008	AL1144001			
450	AL1144508	AL1144501			
500	AL1145008	AL1145001			
600	AL1146008	AL1146001			
750	AL1147508	AL1147501			
900	AL1149008	AL1149001			
1,200	AL11412008	AL11412001			

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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1-1/2" Diameter (38.1mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	AL112508				White = 8
75	AL112758				
100	AL1121008				
150	AL1121508				
200	AL1122008				
250	AL1122508				
300	AL1123008				
350	AL1123508				
400	AL1124008				
450	AL1124508				
500	AL1125008				
600	AL1126008				
750	AL1127508				
900	AL1129008				
1,200	AL11212008				

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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2-0" Diameter (50.8mm) NYLON 3-STRAND TWISTED					
Length feet	Part Number white	Part Number black	Part Number navy blue grey	Part Number colors	P/N Suffix * Color Code
50	AL2508				White = 8
75	AL2758				
100	AL21008				
150	AL21508				
200	AL22008				
250	AL22508				
300	AL23008				
350	AL23508				
400	AL24008				
450	AL24508				
500	AL25008				
600	AL26008				
750	AL27508				
900	AL29008				
1,200	AL212008				

Additional diameters and reel lengths are available upon request. Our standard in-stock colors are white* & black* up to 1-1/4" diameter. Above 1-1/4" we offer white only. Several thousand feet of rope minimum is required to get a custom color other than white or black.

Anchor Line Selection Process

1. Choose Rope Diameter
2. Choose Rope Length
3. Choose Rope Color / Combination
4. Our anchor lines come standard with a stainless steel thimble splice on one end (or galvanized if prefer). The thimble can be further specified as heavy duty (stainless steel or galvanized). We assume the other end of the anchor line is bitter.
5. Choose an optional stainless steel (or galvanized if prefer) Bow Shackle, Anchor Shackle, or Anchor Swivel.
6. Choose optional anchor chain (proof coil or windlass grade (G4 HT or BBB) & in stainless steel or galvanized)
7. Repeat Selection Process for each Anchor Line

Note: All lines are custom made-to-order and further customization can be specified (i.e. double ended lines). Double Braided Lines are whipped and sewn at the throat of the splice and at the bitter end.

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9 - TOW LINES

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Common Definitions & Nautical Terms

Thimble Eye Splice — Tow Lines like anchor lines are provided with a thimble eye splice on one end, which provides for chafe protection for connection to a shackle, swivel eye hook, or spring clip. The hook or clip connects the thimble eye of the tow line directly to the bow eye of the boat being towed. The bitter end (free end) of the tow line is made fast to the towing vessel's stern cleat and the slack adjusted for tension (slack removed) using a cleat hitch. The tow line might well be fitted with a ropefloat. One can also use a soft covered eye splice to connect to the stern cleat of the towing vessel. Simply select the required splices and hardware for each end of the tow line as required for your application.

Permanent or Shackle Connections — The connection between the tow line and the swivel eye hook or shackle can be a permanent connection (the hook is connected directly to the thimble) or a temporary connection (the hook is connected to the thimble via a shackle).

Hardware — As the W.L. of the Tow Line increase the type of hardware that may be used becomes more critical (HD Thimbles, Quick Release Snap Shackles, and Trigger Release Shackles).

Single Leg Tow Line — As the name implies, a single piece of line is assembled with the required splices and or hardware on each end of the line. Specify how the tow line is connected to the stern of the towing vessel (eye splice or bitter end) and how the tow line is connected to the towed boat's bow eye via a hard eye with hook or shackle. The tow line might well be fitted with a rope float(s).

V-Shaped Tow Bridle — Usually for outboard applications; one piece of line with a dock line eye splice (soft covered eye) on each end for connecting to the towing boat's port and starboard bow cleats. Another option is to specify hard eye splices and hardware on each end. Chafe guard is usually applied to the middle of this line. A second longer piece of line (tow leg) is connected to the first in the middle via a hard or soft eye splice. The other end of this line is connected to the towed boat's bow eye via a hard eye with hook or shackle. The tow bridle might well be fitted with a rope float(s).

Y-Shaped Towing Bridle — The ultimate tow line solution; especially, for ocean going applications, is a Y-shaped custom towing bridle made to the customer's specifications. Consider two separate pieces of line (Stern Legs) each with a dock line eye splice (soft covered eye) one for connecting to the boat's port stern cleat and the other line for connecting to the starboard stern cleat. Alternatively, these lines might be specified with bitter ends to provide easier adjustment at the cleat. At the Y-Point, the stern legs are joined to a much longer third piece of line (tow leg) all via soft covered eye splices. Alternatively, hard eye thimble splices, a master link / fish plate / tow plate, and required hardware can be substituted for the soft covered eye splices. The other end of the tow leg is connected to the towed boat's bow eye via a hard eye with a hook or shackle. If the towed boat has a large freeboard and for ease of disconnection from the tow leg, we can supply a short piece of line called a snubber. The snubber can be provided with a hard or soft eye splice and hardware on each end of the line. Reach down with a safety pole, grab the snubber, and release the tow leg. The towed boat can be put underway with the snubber still attached. The tow bridle might well be fitted with a rope float(s).

Y-Y Shaped Towing Bridle — Usually applied where the towed boat is relatively large like a yacht or sailboat and a single connection to the towed boat's bow is not available. Utilize the same design concept as the Y-Bridle, but the stern legs are mirrored to provide two bow legs for connection to the towed boat's port and starboard bow cleats. The tow bridle might well be fitted with a rope float(s). **Towing Hawser** — Is a line used for towing purposes mostly used in heavy marine, commercial, and industrial applications. Towing Hawsers require specialized Shackles, Rope Connectors, Mooring Thimbles, Tow Plate, and or Towing Thimbles.

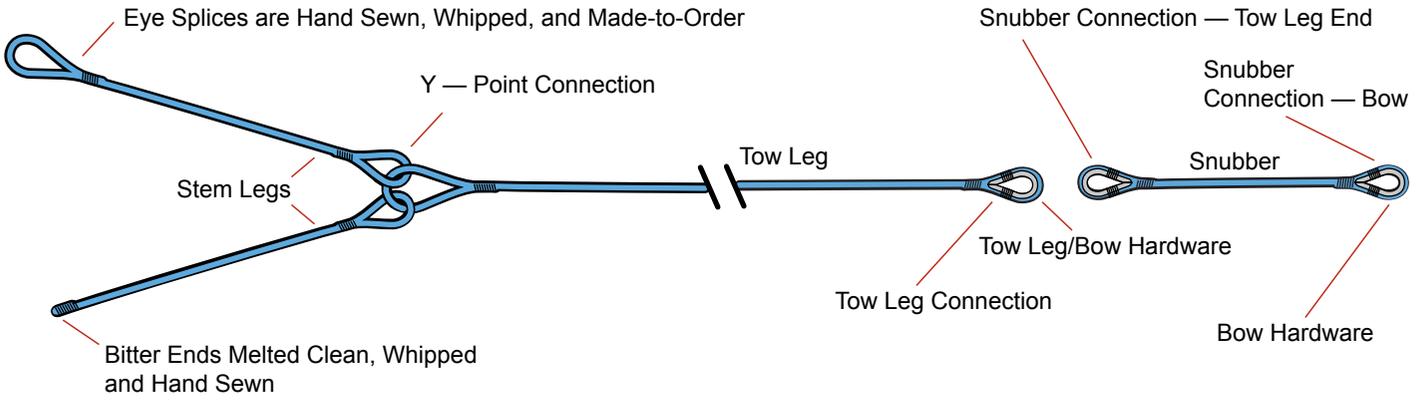
CONCERNING CUSTOM MADE-TO-ORDER TOW LINES - Please consider that many of our tow line requests are for double braid nylon construction; however, we can generally utilize any of the rope materials described in Chapter 2 "Rope Selection Guide" and Chapter 5 "Bulk Rope". Note there are additional diameters and rope lengths available upon request. All our tow lines are custom made-to-order so we do not have part numbers for custom assemblies. Do not see what you are looking for, just ask.

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Y-Shaped Tow Bridle Diagram

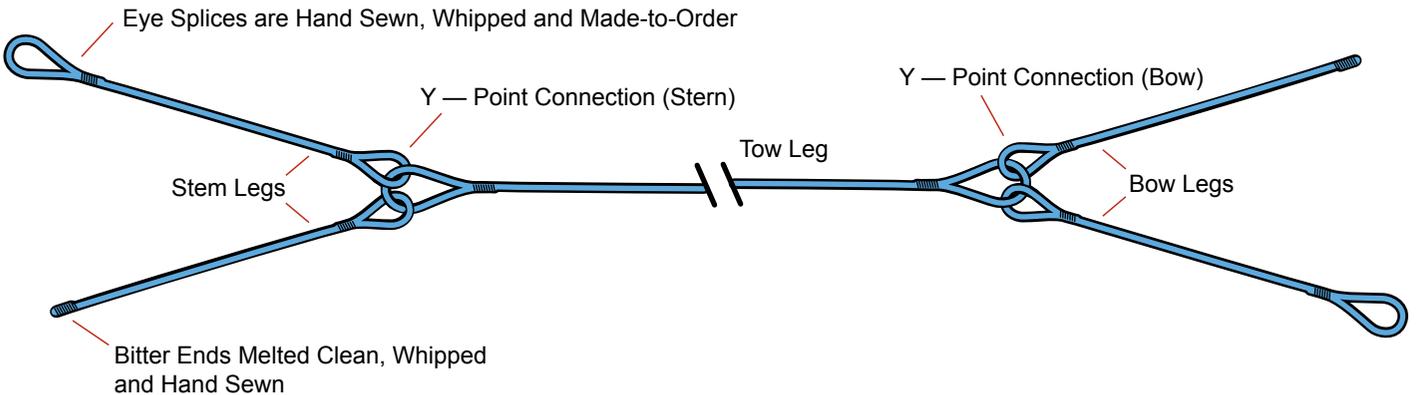


Add Optional Rope Float(s)



[< Download Worksheet > DenverRope.com](#)

Y-Y Shaped Tow Bridle Diagram



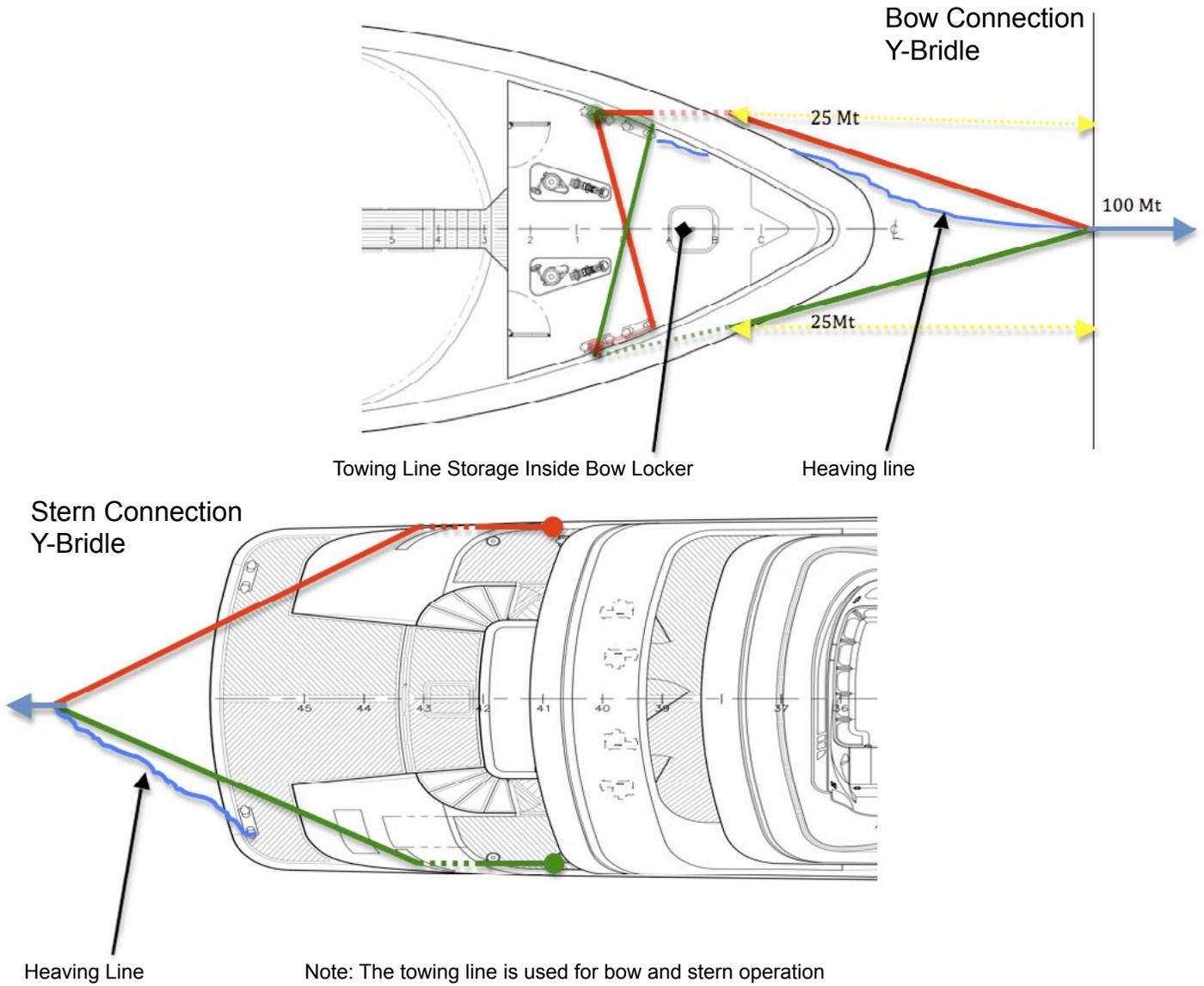
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Y-Y Shaped Tow Bridle Application



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Tow Bridle / Tow Line Design Considerations — Generally pay out enough tow line length to place the towed vessel behind the second wake of the towing vessel based on speed and weather conditions. This specification is more often applied to ocean towing, but less often when towing a recreational boat behind a houseboat on a calm lake. Select the working load of the tow line to be as much as the full weight of towed vessel. This specification is very important when towing during bad weather conditions and or where the wave action will create probable shock loads on the tow line to be equal to the towed vessel's full weight. Again, this specification is more often applied to ocean towing. Select a Y-Shaped Towing Bridle for high performance towing applications (USGC recommended) as opposed to a single leg tow line, which is typical for lake towing applications.

Working Load Considerations: For pleasure marine applications the working load is often chosen to be equal to the fully loaded weight of the towed vessel, but for larger vessels, ships, large yachts, barges, and heavy equipment this conservative approach is not practical and too expensive. For lighter duty applications, practicality, pleasure marine, lake applications, tow line storage concerns, and or budgetary considerations the W.L. is often chosen to be 1/2, 1/3, or some other fraction of the fully loaded weight of the towed vessel.

We encourage the owner to consult with the manufacturer, naval architect, marine engineer, insurance company, and or other authorities of jurisdiction as to provide their recommendations and industry guidelines. The vessel manufacturer should provide an engineered calculation (hydrodynamic ship modeling software) as to how much force is required to move / pull the vessel at slow speed for their specific vessel, ship, equipment. The WL of the towing assembly can be set to 2x the calculated force and the tensile strength set to 5x the WL. As opposed to calculating the force, a Static Bollard Pull Test can be performed to actually measure the pulling force (see below).

Consider the two comments below from two professional naval architects.

1) There are various formulae that have been derived for calculating towing resistance of vessels in the water. While no doubt there are some rules of thumb used in the industry it would be a disservice to suggest there is a simplified ball park equation, as many variables can come into play such as displacement, waterline length, velocity, current, wind, wave height, wetted surface, windage area, shallow water effects etc. For an in depth study on the topic I would direct you to Hydrodynamics in Ship Design by Saunders, published by the Society of Naval Architect and Marine Engineers. This is likely a bit heavier than what you are looking for. Some more practical formulae can be found in Tug Use in Port, A Practical Guide by Cpt Henk Hensen, published by The Nautical Institute (UK). There is a chapter devoted to Bollard Pull calculations which provide somewhat generalized formulae more likely to suit your customers' needs.

John Myers, P.E.
Principal Naval Architect
Hockema & Whalen Associates, Inc.
Naval Architects / Marine Engineers

2) There is also the Morrison Formulation, which is proportional to V^2 + skin friction (proportional to wetted area). Look it up in PNA (Principle of Naval Architecture); the equation is $F = 1/2 \rho C_d A V^2$ where ρ is the density of sea water, A the frontal area and V the towing velocity. When used, make sure the units are consistent. C_d for a ship can be around 0.1-0.2, so if you use 1.0, you should be enough conservative. Finally, I would strongly suggest you spend a bit of time on PNA and look at the viscous drag and wave making drag curves where the total force is the sum of the two.

However, there is a more traditional and a practical approach (via testing) that is described by the American Bureau of Shipping (ABS) known as the Static Bollard Pull Test.

Dominique Roddier, Phd
Marine Innovation & Technology
Naval Architects / Offshore Engineers

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Above an example of a typical Y-Shaped Tow Bridle Assembly: To the left are the two black double braid nylon stern legs that connect to the stern of the towing boat's cleats. The relatively long 12-strand dyneema tow leg is joined to the 2 stern legs using small soft covered eye splices, while the other end of the tow leg is provided with a hard eye splice using a heavy duty stainless steel wire rope thimble spliced to a stainless steel quick release snap shackle. At the top is the optional snubber line. The snubber line provides for ease of connection to the tow leg and allows the towed boat to be put underway with the snubber line still attached. Both ends of the snubber line are provided with heavy duty stainless steel wire rope thimbles. One thimble will receive the tow leg's snap shackle while the other end of the snubber is provided with a stainless steel safety bolted shackle, which connects to the towed boat's bow eye. Note the additional sewing / whipping / lashing used to seat the rope within the thimble. As with all of our lines, our Tow Bridle Designs are fully customizable and made-to-order per the customer's specifications.

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Above an example of a Y-Shaped Tow Bridle Assembly: To the left are the two black double braid nylon stern legs that connect to the stern of the towing boat's cleats. The relatively long 12-strand dyneema tow leg is joined to the 2 stern legs using small soft covered eye splices, while the other end of the tow leg is provided with a hard eye splice using a heavy duty stainless steel wire rope thimble spliced to a stainless steel trigger release shackle. Note the additional sewing / whipping / lashing used to seat the rope within the thimble. As with all of our lines, our Tow Bridle Designs are fully customizable and made-to-order per the customer's specifications.



To the left a Custom Tow Bridle ready for shipment. For high performance and strength applications we use a combination of double braid nylon on the stern legs, which provide a degree of stretch and shock absorption, and high strength 12-strand dyneema / amsteel on the longer tow leg, which provides high strength and line floatation. The stainless steel hardware is selected to match the working load of the tow bridle. We only use heavy duty stainless steel wire rope thimbles for dyneema / amsteel applications. The same materials and concepts can be applied to heavy duty single leg tow lines, mooring lines, and mooring pendants.

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Above an example of a Fully Specified Ocean Tow Bridle: 58 ft Sovran Yacht by Tiara towing a 24 ft Center Console by Everglades. The bridle's working load was chosen to be 4,500 lbs, which is the estimated fully loaded weight of the center console. Notice that the center console stays in the middle of the wake even as the Tiara is making a port side turn.

Assembly: The two stern legs are 7/8" x 40 ft black double braid nylon. The connection to the Tiara's stern cleats are via 36" covered eye splices with the other ends being spliced with heavy duty stainless steel wire rope thimbles and stainless steel snap shackles. The longer tow leg is 1/2" x 85 ft blue 12-strand dyneema / amsteel with each end spliced with a heavy duty stainless steel wire rope thimble. One thimble will receive the two snap shackles from the stern legs while the other end of the tow leg is spliced with a stainless steel snap shackle. This snap shackle connects to a 10 ft snubber line made of blue 12-strand dyneema amsteel. The snubber line provides for ease of connection to the tow leg and allows the center console to be put underway with the snubber still attached. One end of the snubber has a 24" covered eye splice, which connects to the tow leg's snap shackle. The other end of the snubber is spliced with a heavy duty stainless steel wire rope thimble and a stainless steel snap shackle, which connects to the center console's bow eye.

Options: This bridle can be disassembled because the Y-point is mechanically joined together with snap shackles. Other customers may not need this feature and specify that the stern and tow legs be spliced together using soft covered eye splices. Some customers specify the stern legs with bitter ends as opposed to covered eye splices. Too many options exist to list here, but the above illustrates a standard example of what can be done.

All of our towing bridles and lines are customer specified, made-to-order, and manufactured in the USA!

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Below an example of a Fully Specified Ocean Tow Bridle: 140 ft Sailboat towing a 25 ft 6,000lb recreational power boat in the Caribbean



The Two Sterns Legs are 7/8" x 50 ft black double braid nylon and extend off to the left. Each bitter end is whipped and melted clean. The captain will adjust tension and length of the stern legs to the towing vessel's cleats mounted on its stern. Note the chafe protection provided on each of the 6" soft eye splices. The 3/4" x 140 ft 12-strand dyneema tow leg extends off to the right. All of our towing bridles and tow lines are customer specified and custom assembled & all of our lines are made in the USA!

Another view. The 2 Stern Legs extend to the right as the 3/4" x 140 ft 12-Strand Dyneema Tow Leg extends off to the left. All of our double braid nylon splices are hand sewn and whipped for extra holding power. Note the quality of workmanship of the splicing and whipping. Another option will have the three legs joined together using stainless steel thimble splices "hard eyes" to a stainless steel master link. Customize your towing line for your Yacht, Houseboat, or any vessel that may require a custom line.



End view - 3/4" x 140 ft Tow Leg. This end provided with a heavy duty stainless steel thimble splice and a large 1-1/4" stainless steel bolted safety shackle for connection to the snubber shown below. Note the additional whipping used to keep the dyneema line seated in place. We specialize in stainless steel hardware for

3/4" x 10 ft Dyneema Snubber. Each end spliced with a heavy duty stainless steel thimble. One end provided with a 3/4" stainless steel bow shackle for connection to the towed vessel's bow. The other thimble splice connects to the bolted shackle shown above. Customers can add rope floats, additional hardware, and or substitute another type of rope construction to fit their application. Call Denver Rope today!



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Above an example of a Fully Specified Ocean Tow Bridle, St. Croix USVI: 65 ft Hatteras Yacht towing a 32 ft Century. For this tow bridle the W.L. was chosen to be 10,000lbs minimum, which is the estimated fully loaded weight of the Century.

Assembly: The two 40 ft stern legs are 1-1/4" black double braid nylon rope with 18" covered eyes for connecting to the Hatteras' stern cleats. The other end of the sterns legs are each spliced with a small 6" covered eye splice used to join to a 6" covered eye splice of the relatively long 5/8" x 150 ft 12- strand dyneema tow leg. The other end of the tow leg is provided with a hard eye splice using a heavy duty stainless steel wire rope thimble spliced directly to a Tylaska T-30 large bail trigger release shackle. The T-30 connects to a 10 ft snubber line also made of 12-strand dyneema rope. The snubber line provides for ease of connection to the tow leg and allows the Century to be put underway with the snubber line still attached. Both ends of the snubber line are provided with heavy duty stainless steel wire rope thimbles. One thimble will receive the tow leg's T-30 while the other end of the snubber is spliced directly to another Tylaska T-30 large bail swivel snap shackle, which connects to the Century's bow eye.

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Example No.1

A 55 ft Sportfish towing a 25 ft 5,000 lb center console boat to / from FL to Bahamas. In this case we would recommend a fully specified Y-shaped towing bridle with a safe W.L. of approximately equally to the 100% full weight of the center console. In this example we would specify 2 Y-legs at 7/8" x 50 ft double braid nylon for connecting to the sportfish's stern cleats. Here the connection to the cleats can be via bitter ends using a figure eight knot or covered dock line eye splices. Then we have a 1/2" x 150 ft 12-strand dyneema tow leg with a thimble and bearing shackle connection to the center console's bow. Very often the captain will choose to include an optional snubber line so the towed vessel can be quickly disconnected from the tow leg and put underway even with the snubber line still attached to the bow. Comment: reducing the W.L. to 75% will reduce the stern leg rope diameter to 3/4" double braid nylon & the tow leg can be changed from 12-strand dyneema to 3/4" double braid. Consider adding rope floats.

Example No.2

A 75 ft Houseboat towing a 22 ft 3,800 lb wakeboard boat on Lake Powell. In this case we would recommend a single leg tow line with a safe W.L. of approximately 50% of the full weight of the wakeboard boat (2,000 lbs). In this example we would specify a 5/8" x 75 ft double braid nylon tow line. Here the connection to the houseboat's stern cleats can be via a bitter end using a cleat hitch or a covered dock line eye splice. On the opposite end of the tow line we would specify a swivel eye hook for connection to the wakeboard boat's bow. Very often the captain will choose to place a rope float near the houseboat's stern and even another rope float near the wakeboard boat's bow. Comment: reducing the W.L. to a 33% will reduce the rope diameter to 1/2"



Towing on a Lake? We custom assemble single leg tow lines for recreational and commercial towing applications like this one on Lake Powell, Utah / AZ.

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10 - HOUSEBOAT LINES

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Common Definitions & Nautical Terms

Houseboats — Typically use a minimum of four 5/8" to 3/4" diameter dock lines (bow, stern, and or several breast lines) for each side of the boat and secured in locations to prevent the boat from moving side-to-side, forward and backward, during bad weather conditions using the classical dock line techniques (breast lines). The bitter end (free end) of the dock lines are made fast to cleats located on the dock and the slack adjusted for tension (slack removed) using a cleat hitch.

Fenders and Buoys — Denver Rope carries a wide selection of fenders and buoys in multiple shapes, sizes, and colors in order to protect the houseboat from banging against the dock when the houseboat is moored in a slip. We also custom assemble fender lines and or fender whips to match.

Houseboat Anchoring (Shore Lines) — Many captains will moor their houseboat to the shoreline using a set of 3/4" x 150 foot double braid nylon shore lines where the bow is run aground with the stern sticking out into the lake. Shore lines might well include any combination of the following types of mooring lines; long dock lines, anchor lines, windlass anchor rode, and or hand winch anchor lines. Considering this typical scenario, use the last two aft cleats on each side of the houseboat as connection points for the shore lines. Therefore, there are a total of four shore lines, two on each side of the houseboat. The shore line connected on the most aft cleat might form an acute angle not to exceed 60 degrees between the houseboat and shore, while the inside shore line might form an acute angle not to exceed 45 degrees. Larger houseboats might well increase the rope diameter and or the quantity of the shore lines, while smaller houseboats might only have one shore line per side. All houseboats should have emergency shore lines available in case a shore line gets cut, breaks, and or for stormy conditions (storm lines).

General Note on Anchoring: The anchors may get set / secured in any of the following; wrapped around large rocks, driven / buried in a sand hole, and even secured with steel pins / driven rebar. Slack can be removed on shore at the anchor or on the house boat at a cleat, by a windlass, or hand winch. Use the houseboat's engines as required to help adjust tension on the lines. It is highly recommended to utilize a thimble and chain rode as means of chafe protection for each anchor line. Similarly, shore line eye splices can be covered with chafe guard. Note: One can also utilize a nylon sling in a choker configuration to warp around objects on the shore line. One of the sling's loops will be connected to the anchor line via a shackle or hook.

Adjusting Line Tension on Houseboat: Using the bitter end of the shore line, adjust tension at the cleat and secure using a cleat hitch. Otherwise use the windlass or hand winch to take the slack out. In this scenario, the other end of the shore line is typically a stainless steel thimble splice with an anchor shackle connecting to either an anchor; an anchor rode chain, an auger, a driven rebar stake, or other. The shore line can also be wrapped around a large log or boulder. **Adjusting Line Tension on Shore:** Using the bitter end of the shore line, adjust tension at the anchor or anchor rode chain's shackle and secure using a double turn with two half hitches knot or similar. Otherwise use the same knot and either wrap the shore line around a large log or boulder, secure to an auger, driven rebar stake, a nylon sling, or other. In this scenario, the other end of the shore line is typically a covered eye splice secured to an aft cleat on the houseboat.

CONCERNING CUSTOM MADE-TO-ORDER HOUSEBOAT LINES — Please consider that many of our houseboat line requests are for double braid nylon construction; however, we can generally utilize any of the rope materials described in Chapter 2 "Rope Selection Guide" and Chapter 5 "Bulk Rope". Secondly, please review Chapter 7 "Dock Lines" and Chapter 8 "Anchor Lines" as these boat lines are also applicable to houseboats. Note there are additional diameters and rope lengths available upon request. Do not see what you are looking for, just ask.

IN ADDITION — Please consider that the houseboat lines and information depicted in this chapter can obviously be applied to general boating and pleasure marine applications (dock lines, anchor lines, mooring lines, tow lines, etc) as the customer specifies accordingly. Or put another way; this chapter concerns boat lines for houseboat applications.

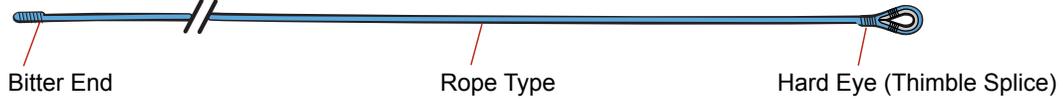
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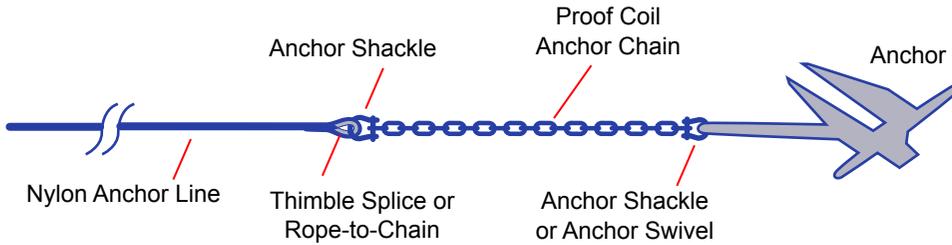
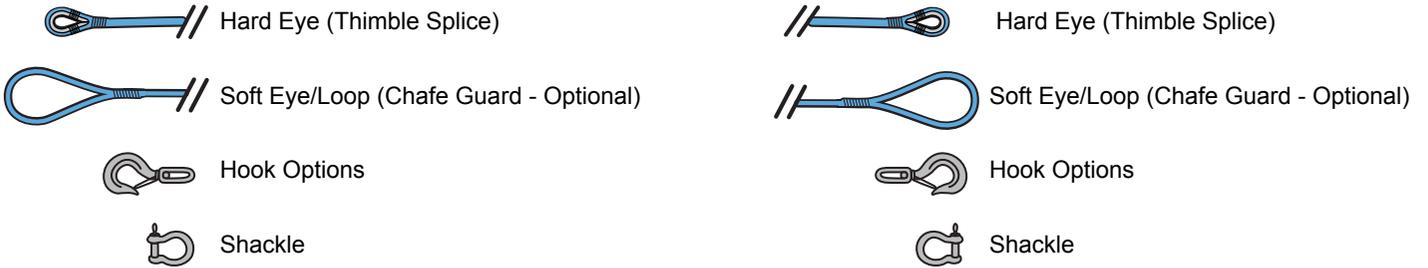
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Houseboat Mooring Line Diagram

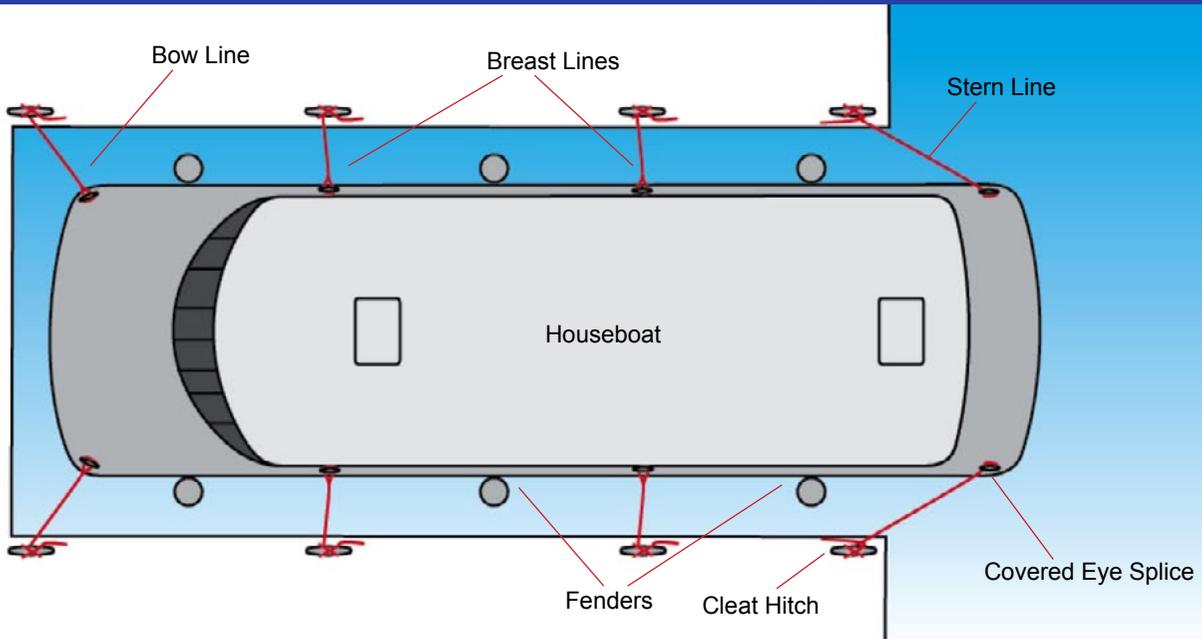


If not a Bitter End, Select A Spliced Working End Connection From Below.

If not a Bitter End, Select A Spliced Working End Connection From Below.



Houseboat In A Slip Diagram



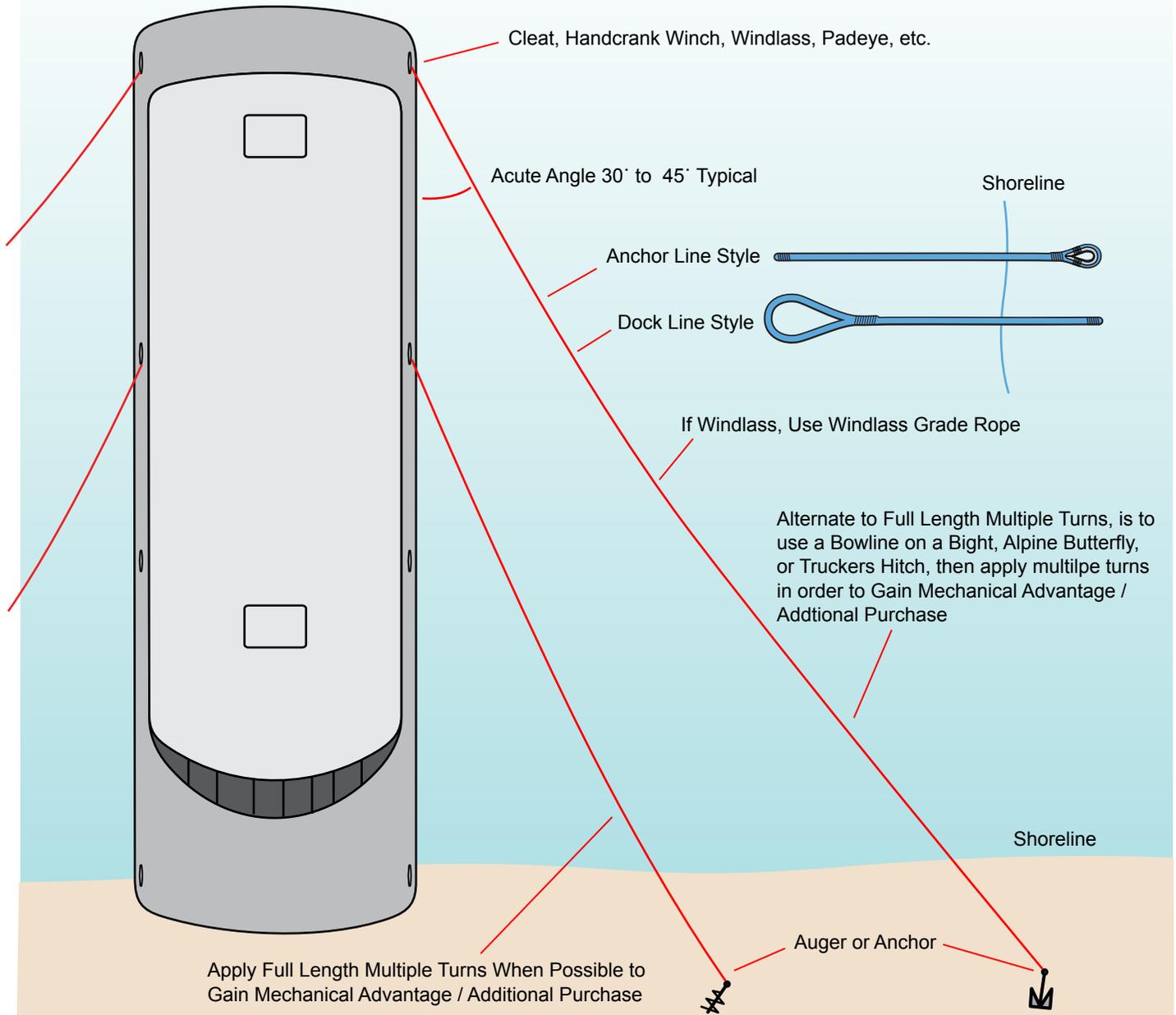
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Houseboat Shore Line Diagram



- Typical Knots include the Cleat Hitch or 2-Turn Half Hitches
- If you have a Long Tail (extra rope at the bitter end) then perform the Knot using the rope on a Bight
- Performing the Half Hitch Knot on a Bight is usually easier to un-tie than otherwise
- In Stormy Conditions add a minimum of one line per side

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Above an example of a custom colored 3/4" X 15ft bow dock line with a 12" covered eye splice. A large houseboat like this one usually requires a minimum of four dock lines per side along with the required fenders / buoys and fender lines. If your lines are subject to chafing, then add chafe guard to protect the rope. This custom rope pattern is black/gold snakeskin.

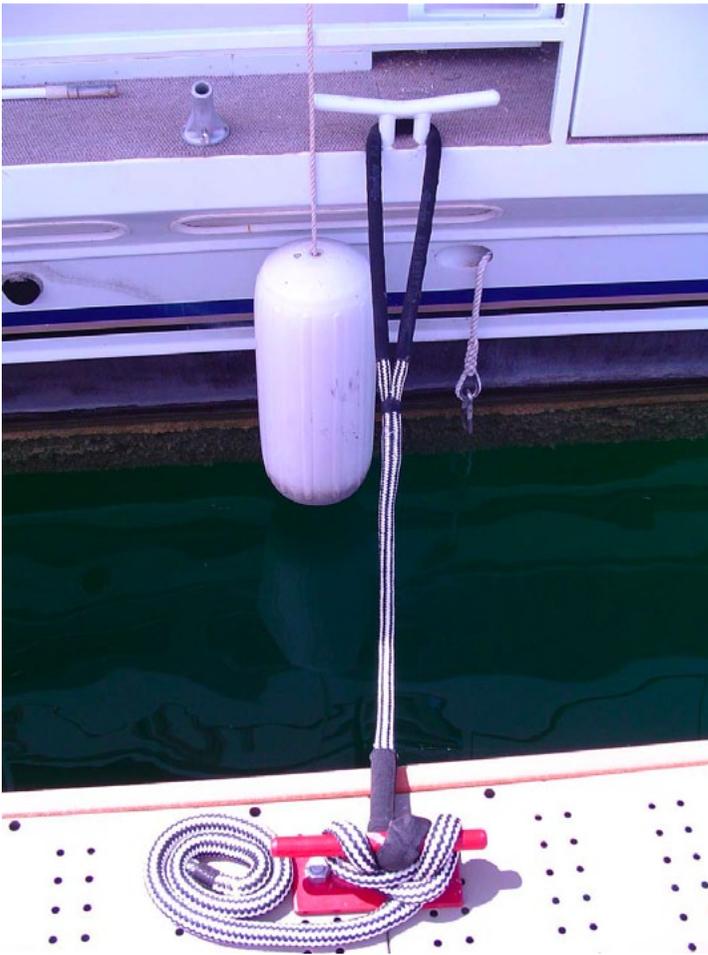


Looking to replace your houseboat lines, then we can provide a custom made-to-order houseboat package to include all of the mooring and towing equipment you need. Can't find what you are looking for, then just call and ask. Some of our best customers are serviced by Unlimited Houseboat Services of Antelope Point Marina - Lake Powell, Page, AZ and Bravada Yachts of Phoenix, AZ.

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Above an example of a 7/8" X 10ft breast line with a covered eye splice. Most breast lines are relatively short due to the close proximity of the cleats. We also custom assemble windlass anchor lines / anchor rodes using a variety of rope materials with or without anchor chain. We also supply fenders / buoys and fender lines / whips. Consider that chafe guard can also be placed along the line where chafe protection is required. As with all of our lines, our assemblies and designs are fully customizable and made-to-order per the customer's specifications. The custom rope pattern is black/white half and half (50/50).



Above an example of a custom colored 3/4" X 10ft breast dock line with a 12" covered eye splice. If your boat is moored in a slip, then cover those eye splices. This custom rope pattern is yellow/black/royal blue 50 / 25 / 25.



Above an example of a custom colored 3/4" X 15ft bow dock line with a 12" covered eye splice. If your lines are subject to chafing, then add chafe guard to protect the rope. This custom rope pattern is 4-tracer black background w yellow/purple/ purple/yellow tracers.

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Above are two custom colored examples of 3/4" x 150 ft anchor lines. All our double braid nylon splices are hand sewn and then whipped for extra holding power. The bitter ends are melted clean and also whipped. Stainless Steel Thimble Splices are a standard offering for our anchor lines. For 3/4" lines, use 1/2" stainless steel bow shackles to connect the anchor line to anchor chain or directly to the anchor itself. The rope pattern on the left is white/gold/navy 50 /25 / 25 and the rope pattern on the right is black/purple snakeskin.



An example of a 3/4" x 150 ft custom colored double braid nylon anchor line or houseboat shore line. The 1/2" stainless steel bow shackle connects to a 3/8" stainless steel swivel eye hook, which connects to their anchor chain via another 1/2" stain steel bow shackle not depicted. Note that "Mooring Line" is a general term to include anchor lines, dock lines, shore lines, etc. Stainless Steel Hardware is standard on all our Mooring Lines.

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These two houseboats are outfitted with hand crank winches for taking the slack out of their anchor lines / shore lines. There are two aft winch stanchions, one on each side (port and starboard) of the houseboat for a total of four 3/4" custom colored double braid nylon anchor lines. The bitter end is on the boat through the winch, while a stainless steel thimble splice is on the shore for mechanical connection to the anchor / anchor rode chain using a stainless steel bow shackle. See below.



Here is a close-up of the mechanical connection to the anchor, where a stainless steel thimble splice is used to provide for the mechanical connection to the anchor / anchor rode chain using stainless steel bow shackle(s). To protect the anchor line / shore line (rope) against chafing along the ground, add a section of anchor chain between the anchor and thimble splice. Use stainless steel bow shackles to make the connections to the anchor chain. Long dock lines can also be used for the same purpose where the dock line eye splice is on the houseboat's aft cleat and the bitter end is brought to the shore for taking the slack out using a double turn half hitches knot to a stainless steel bow shackle.

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Above are two examples on how a houseboat might utilize buoys and or fenders to protect the houseboat from banging against the dock while moored in a slip.



Need a complete set of houseboat lines, fenders, fender lines, chain, hardware, and or anchors? Give us a call.

Above are two 3/4" x 200ft double braid nylon Shore Lines for the Bravada Houseboat below. The color combo is black/gold snakeskin pattern.

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11 - MOORING PENDANTS & BRIDLES

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Common Definitions & Nautical Terms

Mooring Pendant (also called mooring line) is a relatively short length of line used to connect a vessel to a mooring buoy (or mooring) usually via the boat's bow eye or bow cleats. The boat can free wheel about the mooring depending on the wind direction.

Buoy Field Mooring — When a boat is moored in a buoy field, a custom mooring line can be utilized i.e. a Mooring Pendant, which have characteristics of both dock lines and anchor lines and the associated hardware connections. A typical line will have a dock line eye splice (covered eye) for connecting to the boat's cleat or a hard eye for connecting to the boat's bow eye via hardware. On the other end, a hard eye with a stainless steel swivel hook or shackle for making fast to the buoy connection. The mooring line might well be fitted with a buoy or rope float(s). Mooring Pendants can also have the shape of a V or Y depending on the boat's cleat arrangement (sailboats).

Thimble Eye Splice — Mooring Pendants (mooring lines) like anchor lines are provided with a thimble eye splice on one end (even both ends), which provides rope chafe protection for the connection to a shackle, swivel eye hook, or spring clip. The hook or clip connects the thimble eye of the mooring line directly to the bow eye of the boat being moored and or the mooring buoy. The mooring line might well be fitted with a rope float(s). Simply select the required splices and hardware for each end of the mooring pendant as required for your application.

Permanent or Shackle Connections — The connection between the mooring pendant and the swivel eye hook or shackle can be a permanent connection (the hook is connected directly to the thimble) or a temporary connection (the hook is connected to the thimble via a shackle). Hardware — As the W.L. of the Mooring Pendant increases, the type of hardware that may be used becomes more critical (HD Thimbles, Quick Release Snap Shackles, and Trigger Release Shackles).

Hardware — As the working load of the Mooring Pendant increases, the type of hardware that may be used becomes more critical (HD Thimbles, Quick Release Snap Shackles, and Trigger Release Shackles).

Single Leg Mooring Pendant — As the name implies, a single piece of line is assembled with the required splices and or hardware on each end of the line (bow connection and buoy connection). The mooring pendant might well be fitted with a buoy or rope float(s).

V-Shaped Mooring Bridle — Usually for sailboat applications, one piece of line with a dock line eye splice (soft covered eye) on each end for connecting to the boat's port and starboard bow cleats. Chafe guard is usually applied to the middle of the line. A second piece of line is connected to the first in the middle via a hard or soft eye splice. The other end of this line is connected to the mooring buoy via a hard eye splice and hardware. The mooring bridle might well be fitted with a buoy or rope float(s).

Y-Shaped Mooring Bridle — Usually for sailboat applications, two pieces line each with a dock line eye splice (soft covered eye) one for connecting to the boat's port bow cleat and the other line for connecting to the starboard bow cleats. These two lines (bow legs) are joined to a third piece of line (buoy leg) via soft covered eye splices. At the Y-point, hard eye splices and hardware can be substituted for the soft covered eye splices. The other end of the buoy leg is connected to the mooring buoy via a hard eye splice and hardware. The mooring bridle might well be fitted with a buoy or rope float(s).

House Boat Mooring Pendant — The same design concept as the single leg mooring pendant, but applied to a large boat like a houseboat. Larger diameter mooring rope and heavy duty hardware is required for this application. Wire rope can be substituted for fiber rope, but stainless steel wire rope and hardware is recommended. 12-Strand Dyneema rope is a good choice for this application. The mooring pendant might well be fitted with a buoy or rope float(s).

Anchor Chain Snubbers — Have the same design concepts as the mooring pendants described above; however, they are used to provide a degree of shock absorption for a boat's anchor chain. One end of the line connects to the bow cleat(s), while the other end connects to the chain via a hard eye thimble splice and hardware (shackle, hook, etc.).

CONCERNING CUSTOM MADE-TO-ORDER MOORING LINES — Please consider that many of our mooring pendant requests are for double braid nylon construction; however, we can generally utilize any of the rope materials described in Chapter 2 "Rope Selection Guide" and Chapter 5 "Bulk Rope". Note there are additional diameters and rope lengths available upon request. All our mooring lines are custom made-to-order so we do not have part numbers for custom assemblies. Do not see what you are looking for, just ask.

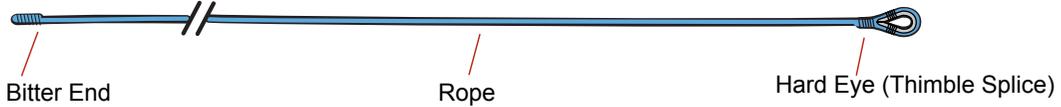
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Single Leg Mooring Pendant Diagram

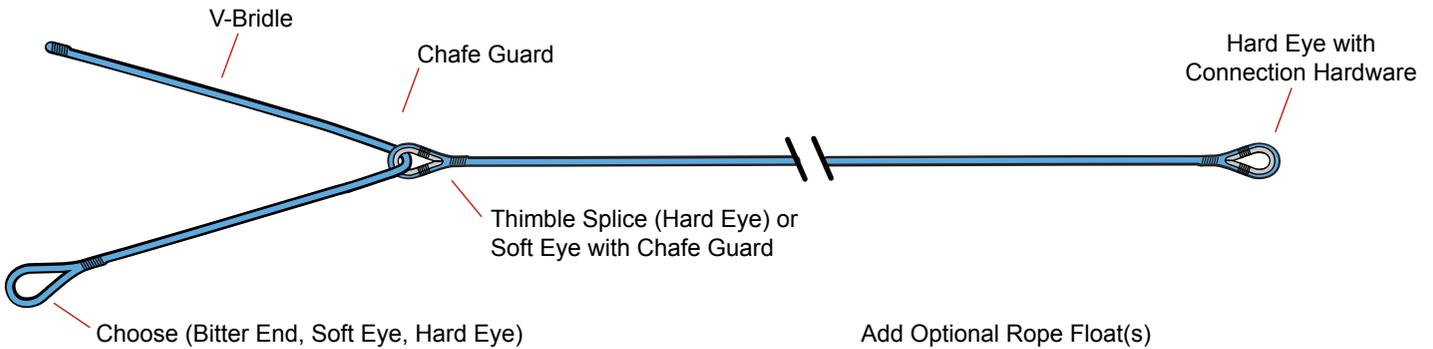


If not a Bitter End,
Select A Spliced Working End
Connection From Below.
For All Mooring Line Diagrams
and Connections.

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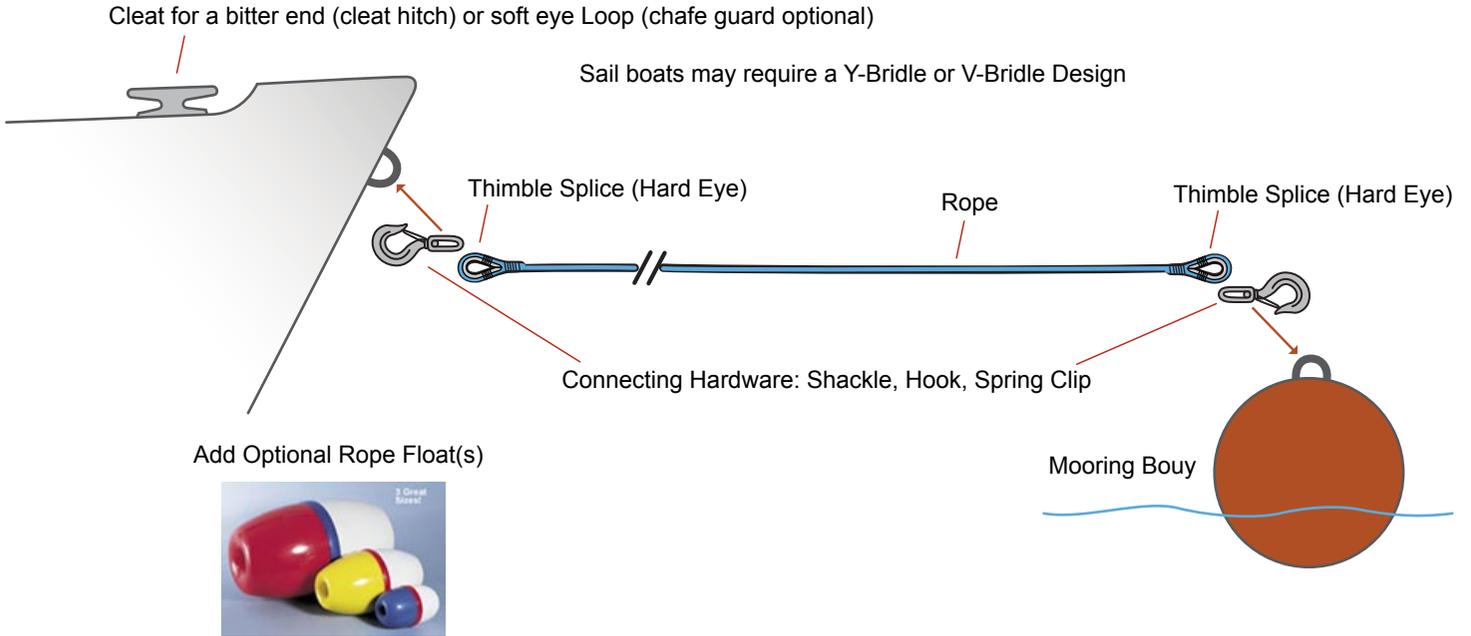
- | | | | |
|--|--|--|--|
| | Hard Eye (Thimble Splice) | | Hard Eye (Thimble Splice) |
| | Soft Eye/Loop (Chafe Guard - Optional) | | Soft Eye/Loop (Chafe Guard - Optional) |
| | Hook Options | | Hook Options |
| | Shackle | | Shackle |

V-Shaped Mooring Bridle Diagram

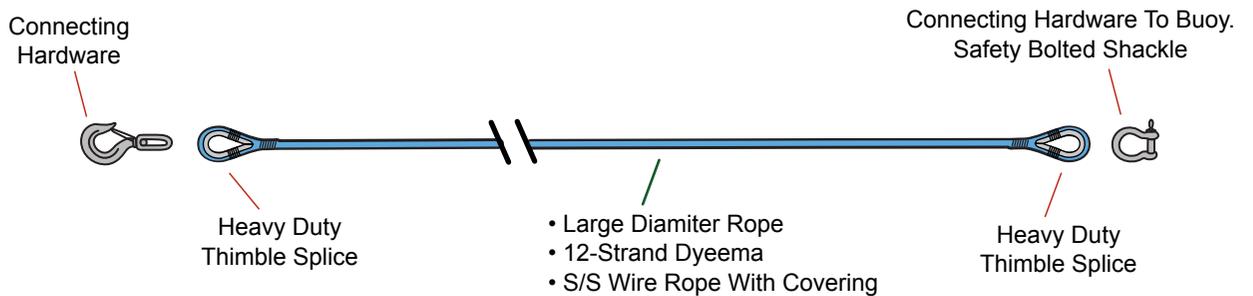


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Mooring Pendant Diagram



Houseboat Mooring Pendant Diagram



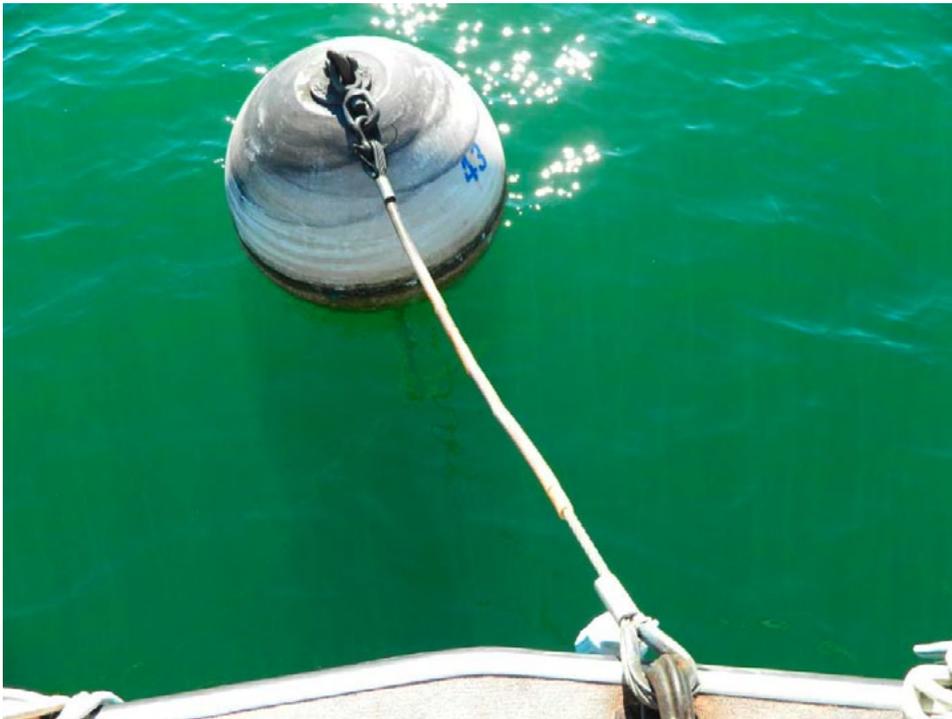
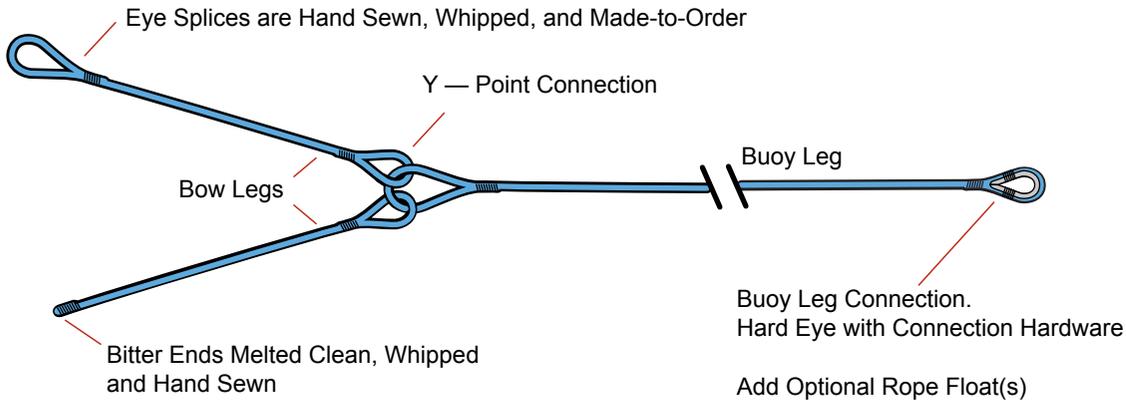
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Y-Shaped Mooring Bridle Diagram



Above is an example of a houseboat mooring pendant. Denver Rope can custom assemble this type of pendant using stainless steel wire rope, heavy duty wire rope thimbles, swages, shackles, and or anchor swivels as the customer specifies. Consider that 12-Strand Dyneema Rope or Nylon Rope can be substituted for the wire rope shown.

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Custom mooring line assembly of 3/4" x 15' solid black double braid nylon. Can substitute a dock line splice if connecting to a cleat or simply use a bitter end and a cleat hitch to secure the line.



Stainless steel thimble splice and anchor shackle



Utilize rope floats as required for your application including mooring lines, tow lines and tow bridles.



Above - Stainless steel thimble splice with a premium quality quick release snap shackle. Pull on the clasp to open the torsion bail. If your line is subject to twisting, then we recommend the use of a hook that is on a bearing. Make connections to your boat's bow eye using such a hook. Right - 1/2" & 5/8" lines with appropriately sized swivel eye hooks and anchor shackles.



Year-long / permanent type moorings connections are often made using a Safety Bolted Shackle as shown here. This 5/8" stainless steel shackle has a bolted connection along with a cotter pin for extra security along with a higher working load than standard bow shackles.

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12 - BOAT LINE & HARDWARE SELECTION

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Boat Line Selection Guide

Dock Line Selection Guide					Anchor Line Selection Guide		
Boat Length	Diameter	Stern & Bow Lines	Spring Lines	Short Lines	Length	Diameter	Mooring Pendant
<= 19 ft	3/8"	(2) 10 ft	(2) 24 ft	(2) 10 ft	75 - 150 ft	3/8"	1/2"
20 - 30 ft	1/2"	(2-4) 12 ft	(2) 30 ft	(2) 10 ft	75 - 150 ft	1/2"	5/8"
31 - 40 ft	5/8"	(2-4) 15 ft	(2) 40 ft	(2) 10 ft	100 - 200 ft	1/2"-5/8"	3/4"-7/8"
41 - 50 ft	3/4"	(2-4) 20 ft	(2) 50 ft	(2) 15 ft	100 - 200 ft	3/4" - 7/8"	1-0"
51 - 60 ft	7/8"	(2-4) 25 ft	(2) 60 ft	custom	100 - 200 ft	1-0"	1-1/4"
61 - 70 ft	1-0"	(2-4) 30 ft	(2) 70 ft	custom	>= 200 ft	1-0"-1-1/4"	1-1/4" - 1- 1/2"
Houseboat	3/4"	(4) 15 ft	custom	(4) 10 ft	(4) 100 - 200 ft	3/4"	1-1/2" - 2-0"
71 - 90 ft	1-0"	custom	custom	custom	custom	custom	custom
91 - 110 ft	1-1/8"	custom	custom	custom	custom	custom	custom
111 - 130 ft	1-1/4"	custom	custom	custom	custom	custom	custom
131 - 150 ft	1-1/2"	custom	custom	custom	custom	custom	custom
151 - 200 ft	1-3/4"	custom	custom	custom	custom	custom	custom
201 - 300 ft	2-0"	custom	custom	custom	custom	custom	custom
> 300 ft	custom	custom	custom	custom	custom	custom	custom

These are suggestions only. Check with your boat manufacture / dealer to help with your selection. Verify the distance between your boat's cleats and the dock's cleats. Expected weather conditions, windage, weight, and application (lake, ocean, housboat, qty of cleats, etc) affect your line selection. Having a set of back-up storm lines is recommended. We are a custom made-to-order rigging shop so please customize your lines for what you need.

Rope & Hardware Selection Guide

Double Braid Nylon Inches	Diameter mm	Tensile Strength	W.L.	Bow Shackle	Swivel Eye Hook	Spring Clip	Quick Release Snap Shackle	Trigger Release Shackle	Anchor Chain	Master Link
3/8"	9.5	4,900	980	1/4"	1/4"	7/16"			3/16"	1/2"
7/16"	11.1	5,700	1,140	5/16"	5/16"	1/2"			3/16"	1/2"
1/2"	12.7	8,500	1,700	3/8"	5/16"	1/2"			1/4"	1/2"
9/16"	14.3	10,200	2,040	3/8"	5/16"	1/2"			5/16"	1/2"
5/8"	15.9	13,500	2,700	7/16"	5/16"	1/2"	2775	T20	5/16"	1/2"
3/4"	19.1	19,400	3,880	1/2"	3/8"		2775	T20	3/8"	5/8"
7/8"	22.2	28,300	5,660	5/8"	1/2"		2776	T20	1/2"	3/4"
1-0"	25.4	34,000	6,800	3/4"			2777	T20	1/2"	3/4"
1-1/4"	31.8	52,300	10,460	1-0"			2778	T20	5/8"	1-0"
1-1/2"	38.1	74,000	14,800	1-1/4"				T30	5/8"	1-0"
1-5/8"	41.3	92,400	18,480					T50	3/4"	1-1/4"
1-3/4"	44.5	106,000	21,200					T50	3/4"	1-1/4"
2-0"	50.8	126,000	25,200					T50		

Additional rope diameters, lengths, and special assemblies are available. Just ask.

All lines and special assemblies are custom made-to-order to your exacting specifications by expert craftsmen utilizing traditional methods and superior splicing techniques to make the best custom lines made in the USA.

Denver Rope is a factory direct - wholesale distributor - for Miami Cordage located in Miami, FL--A family run business serving the marine industry since 1965.

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13 - BUOYS & FENDERS

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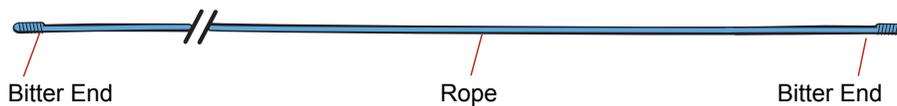
Common Definitions & Nautical Terms

Fenders and Buoys — Denver Rope carries a wide selection of fenders and buoys in multiple shapes, sizes, and colors in order to protect your boat from banging against the dock when the boat is moored in a slip. We also carry mooring buoys for just that purpose (mooring applications). Need your boat line or wire rope to float, consider a in-line rope float.

Fender Lines / Fender Whips — Denver Rope custom assembles fender lines / fender whips for your fenders and buoys, which are made-to-order per the customer's specifications. Our fender lines / whips come standard with whipped and sewn bitters ends (each end), but we can splice soft or hard eyes and or provide hardware as required by the customer.

CONCERNING CUSTOM MADE-TO-ORDER FENDER LINES — Please consider that many of our boat line requests are for double braid nylon construction; however, we can generally utilize any of the rope materials described in Chapter 2 "Rope Selection Guide" and Chapter 5 "Bulk Rope". Note there are additional diameters and rope lengths available upon request. Do not see what you are looking for, just ask.

Fender Line Diagram



If not a Bitter End,
 Select A Spliced Working End
 Connection From Below.

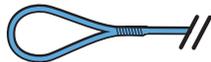
If not a Bitter End,
 Select A Spliced Working End
 Connection From Below.



Hard Eye (Thimble Splice)



Hard Eye (Thimble Splice)



Soft Eye/Loop (Chafe Guard - Optional)



Soft Eye/Loop (Chafe Guard - Optional)



Hook Options



Hook Options

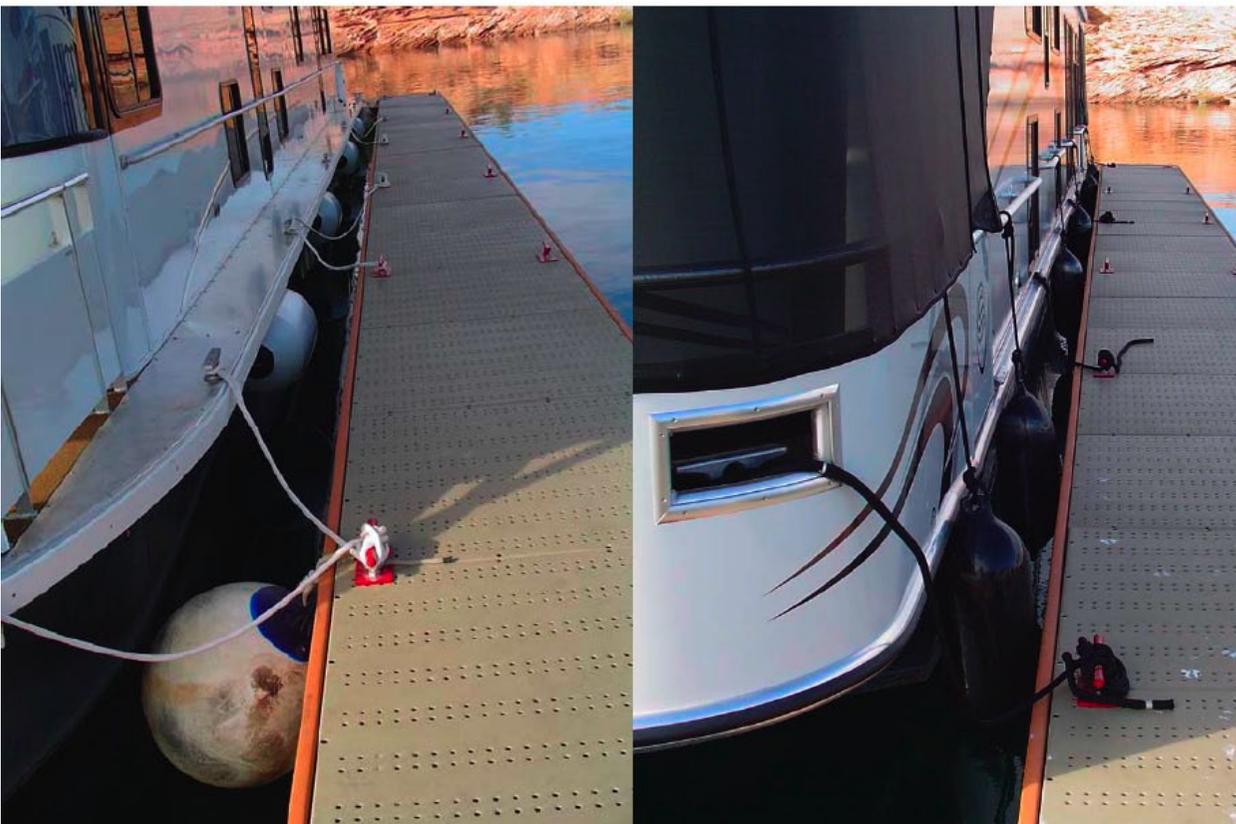


Shackle



Shackle

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Above and below are just a few of the examples on how a houseboat might utilize buoys and or fenders to protect the houseboat from banging against the dock while moored in a slip. We also custom assemble the required fender lines and whips to secure the fenders and buoys.

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FENDERS



G series

Polyform's popular utility fender

SPECIFICATIONS

	G-1	G-2	G-3	G-4	G-5	G-6
SIZE (diameter x length)	3.5" x 13" 8,9 x 33,0cm	4.5" x 16" 11,4 x 40,6cm	5.5" x 20" 14,0 x 50,8cm	6.5" x 23" 16,5 x 58,4cm	8.5" x 27" 21,6 x 67,8cm	10.5" x 30" 25,7 x 76,2cm
EYE DIAMETER	3/8" 0,95cm	1/2" 1,27cm	5/8" 1,27cm	3/4" 1,91cm	3/4" 1,91cm	7/8" 2,22cm
CIRCUMFERENCE	11" 27,9cm	14.1" 35,8cm	17.3" 44,0cm	20.4" 51,8cm	26.7" 67,8cm	33" 83,8cm
PIECES PER CARTON	12	12	6	6	4	4



NF series

The next generation in utility fender

SPECIFICATIONS

	NF-3	NF-4	NF-5
SIZE (diameter x length)	5.5" x 20" 14,9 x 50,8cm	6.5" x 23" 16,5 x 58,4cm	8.5" x 27" 21,6 x 67,8cm
EYE DIAMETER	5/8" 1,27cm	3/4" 1,91cm	3/4" 1,91cm
CIRCUMFERENCE	17.3" 44,0cm	20.4" 51,8cm	26.7" 67,8cm
PIECES PER CARTON	6	6	4



HTM series

Hang vertically or horizontally

SPECIFICATIONS

	HTM-1	HTM-2	HTM-3	HTM-4
SIZE (diameter x length)	6" x 15" 15,2 x 38,1cm	8" x 20" 20,3 x 50,8cm	10" x 26" 25,4 x 66,0cm	12" x 34" 30,5 x 86,4cm
TUBE DIAMETER	5/8" 1,59cm	5/8" 1,59cm	5/8" 1,59cm	5/8" 1,59cm
CIRCUMFERENCE	18.8" 47,7cm	25.1" 63,7cm	31.4" 79,8cm	37.7" 95,8cm
PIECES PER CARTON	6	4	4	4

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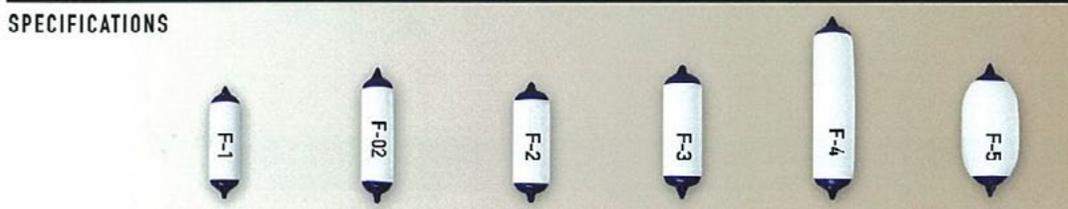
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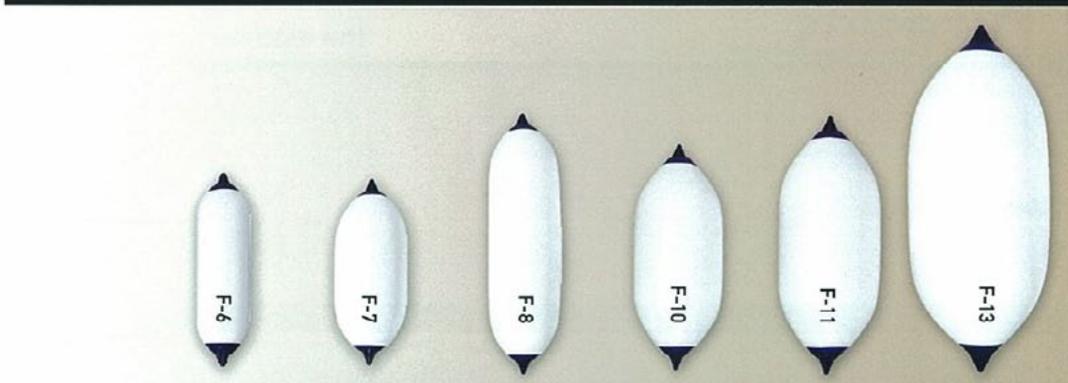
F series

Classic european fender for the most demanding use

SPECIFICATIONS



	F-1	F-02	F-2	F-3	F-4	F-5
SIZE (diameter x length)	6" x 25" 15 x 64cm	8" x 27" 20 x 68cm	9" x 25" 22 x 64cm	9" x 30" 22 x 76cm	9" x 41" 22 x 104cm	12" x 50" 30 x 76cm
EYE DIAMETER	0.7" 1,8cm	0.7" 1,8cm	0.9" 2,2cm	0.9" 2,2cm	0.9" 2,2cm	1.0" 2,4cm
CIRCUMFERENCE	18.8" 47,1cm	25.1" 62,8cm	28.3" 69,1cm	28.3" 69,1cm	28.3" 69,1cm	37.7" 95,8cm
VOLUME (gallons/liters)	2.2 gal. 8.2l	3 gal. 11.5l	3.5 gal. 13.2l	5.3 gal. 20.0l	9.3 gal. 34.9l	11.9 gal. 44.9l
PIECES PER CARTON	10	10	6	10	5	5



	F-6	F-7	F-8	F-10	F-11	F-13
SIZE (diameter x length)	12" x 45" 30 x 109cm	15" x 41" 38 x 104cm	15" x 58" 38 x 147cm	18.5" x 50" 47 x 127cm	24" x 57" 60 x 145cm	32" x 77" 80 x 195cm
EYE DIAMETER	1.0" 2,4cm	1.0" 2,4cm	1.0" 2,4cm	1.0" 2,4cm	1.1" 2,7cm	1.2" 3,0cm
CIRCUMFERENCE	37.7" 95,8cm	47.1" 119,3cm	47.1" 119,3cm	58.1" 147,6cm	75.4" 188,4cm	100.5" 251,2cm
VOLUME (gallons/liters)	19.8 gal. 74.8l	25.1 gal. 94.8l	39.6 gal. 149.7l	40.8 gal. 154.2l	63.7 gal. 240.4l	158.6 gal. 598.7l
PIECES PER CARTON	5	5	4	2	3	2



Fender Sizing Guide

BOAT SIZE	FENDER SELECTION
Up to 10'	G-1, A-0
10' to 20'	G-2, G-3, NF-3, S-1, A-0
20' to 30'	G-4, G-5, NF-4, NF-5, HTM-1, HTM-2, F-1, F-02, F-2, F-3, A-1
30' to 40'	G-6, HTM-3, HTM-4, F-4, F-5, F-6, A-2, LD-2
40' to 50'	HTM-4, F-6, A-3, LD-3
50' to 60'	F-7, F-8, A-4
60' to 70'	F-8, F-10, F-11, A-5
70' - Up	F-11, F-13, A-5, A-6, A-7

Polyform Fender Color Chart

	BLACK	BLUE	BURGUNDY	CLASSIC RED	COBALT	FOREST GREEN	GRAY	NAVY	ORANGE	PURPLE	SAND	TEAL	WHITE	YELLOW	GREEN	SATURN YELLOW	RED
G	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
NF	●	●	●	●	●	●							●				
HTM	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●
F	●	●											●				●

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BUOYS

A series

The #1 buoy in the world

SPECIFICATIONS



	A-0	A-1	A-2	A-3	A-4	A-5	A-6	A-7
SIZE (diameter x length)	9" x 11.5" 23 x 29cm	11.5" x 14.5" 29 x 37cm	15.5" x 19.5" 39 x 49cm	18.5" x 23" 47 x 59cm	21.5" x 28" 55 x 71cm	27.5" x 30" 70 x 92cm	34.0" x 46.5" 86 x 118cm	41.4" x 54.4" 105 x 138cm
EYE DIAMETER	0.6" 1,6cm	1.0" 2,5cm	1.125" 2,8cm	1.125" 2,8cm	1.125" 2,8cm	1.25" 3,0cm	1.5" 3,8cm	2" 5,0cm
CIRCUMFERENCE	28.3" 72,2cm	36.1" 91,1cm	48.7" 122,5cm	58.1" 147,6cm	67.5" 172,7cm	86.4" 219,8cm	106.8" 270,0cm	130.0" 329,7cm
VOLUME (gallons/liters)	1.6 gals. 5.9l	3.5 gals. 13.2l	8.2 gals. 30.8l	14.5 gals. 54.9l	22.5 gals. 84.8l	47.6 gals. 179.4l	95.1 gals. 359.2l	161.6 gals. 610.1l
PIECES PER CARTON	20	10	10	10	10	5	3	2

LD series

The leading low drag buoy

SPECIFICATIONS



	LD-1	LD-2	LD-3
SIZE (diameter x length)	8.5" x 18.5" 21,5 x 47cm	12" x 23" 30,5 x 59cm	14.3" x 30" 36 x 76cm
EYE DIAMETER	1.0" 2,5cm	1.0" 2,5cm	1.0" 2,5cm
CIRCUMFERENCE	27.0" 69,0cm	37.7" 95,8cm	44.9" 113,0cm
VOLUME (gallons/liters)	3.5 gals. 13.0l	8.2 gals. 30.8l	14.5 gals. 54.9l
PIECES PER CARTON	10	10	10

S series

Boat guide buoy

	S-1
SIZE (diameter x length)	6" x 15-1/2" 15,0 x 39,0cm
EYE DIAMETER	1/2" 1,27cm
CIRCUMFERENCE	18.8" 47,7cm
VOLUME (gallons/liters)	1.6 gals. 5.9l
PIECES PER CARTON	10



WS series

Waterski buoy

	WS-1
SIZE (diameter x length)	9" 22,0cm
EYE DIAMETER	3/8" 0,95cm
CIRCUMFERENCE	28.3" 72,2cm
VOLUME (gallons/liters)	1.6 gals. 5.9l
PIECES PER CARTON	60



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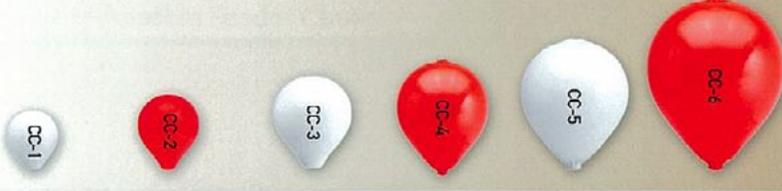
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CC series

Can be used in a variety of applications

SPECIFICATIONS



	CC-1	CC-2	CC-3	CC-4	CC-5	CC-6
SIZE (diameter x length)	11" x 15.5" 28 x 39cm	14" x 19" 36 x 48cm	18.5" x 24" 47 x 61cm	21.5" x 27.5" 55 x 70cm	27.5" x 36" 70 x 92cm	34" x 45.5" 86 x 115cm
CIRCUMFERENCE	34.5" 87,9cm	44.0" 113,0cm	58.1" 147,6cm	67.5" 172,7cm	86.4" 219,8cm	106.8" 270,0cm
TUBE DIAMETER	1.5" 3,8cm	2.0" 5,0cm	2.0" 5,0cm	2.0" 5,0cm	3.0" 7,5cm	3.0" 7,5cm
VOLUME (gallons/liters)	3.2 gals. 12,2l	6.6 gals. 24,9l	14.5 gals. 54,9l	22.5 gals. 84,8l	44.9 gals. 169,6l	92.5 gals. 349,3l
SCHEDULE 40 PVC PIPE	1.25" ID 1.660" OD	1.5" ID 1.900" OD	1.5" ID 1.900" OD	1.5" ID 1.900" OD	2.5" ID 2.875" OD	2.5" ID 2.875" OD
PIECES PER CARTON	10	10	4	4	3	2



CM series

Now with both galvanized & stainless irons

SPECIFICATIONS



	CM-2 RED	CM-2 RED/SS	CM-3 RED	CM-3 RED/SS	CM-2 WHITE w/ STRIPE	CM-2 WHITE w/ STRIPE/SS	CM-3 WHITE w/ STRIPE	CM-3 WHITE w/ STRIPE/SS
SIZE (diameter x length)	14" x 18"	14" x 18"	18" x 22 1/4"	18" x 22 1/4"	14" x 18"	14" x 18"	18" x 22 1/4"	18" x 22 1/4"
CIRCUMFERENCE	44"	44"	56 1/2"	56 1/2"	44"	44"	56 1/2"	56 1/2"
VOLUME (gallons/liters)	6.6 gals. 24,9l	6.6 gals. 24,9l	14.5 gals. 54,9l	14.5 gals. 54,9l	6.6 gals. 24,9l	6.6 gals. 24,9l	14.5 gals. 54,9l	14.5 gals. 54,9l
TUBE DIAMETER	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
IRON LENGTH w/ SHACKET	31"	31"	35"	35"	31"	31"	35"	35"



Polyform Buoy Color Chart

	BLACK	BLUE	GREEN	ORANGE	RED	SAURIN YELLOW	WHITE	YELLOW
A	●	●	●	●	●	●	●	●
LD	●	●	●	●	●	●	●	●
S		●	●		●		●	●
WS			●		●			●
CC					●		●	
CM					●		●	

Other Polyform colors available by request.

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Company Policy

Terms

New customers will be shipped on a COD basis, proforma, or credit card. Applications for 30 day terms must be filled out completely and faxed or emailed to our office.

Sales Tax

Internet Sales — No sales tax applies unless required by applicable state law.

Pricing

Please call, email, or fill out form with request for quotations.

Returns

If there is an error in our shipment please notify us within 48 hours. All returns must be authorized by Miami Cordage. It is the customer's responsibility to return the merchandise in good, resalable condition, and to provide the invoice number from which the merchandise came. All returns not due to our error are subject to a 20% restocking charge. Merchandise over 90 days from purchase may not be returned.

Minimum Orders

\$25.00

Warranty

All products supplied by Miami Cordage / Florida Wire & Rigging Works, Inc. are guaranteed to be of good material and workmanship as originally made by the manufacturer of the products and are rated according to accepted industry standards (except where products are not of a standard nature and standards do not exist).

Rated capacities apply only to the products supplied in their new and unused condition. No other warranty conditions or guarantees, either expressed or implied are offered or considered valid.

The service life, performance, and strength are conditional upon:

- The proper use, environment, loading, and handling of the product and the equipment it is used on.
- Methods of attachment.
- Careful and knowledgeable use of the product and therefore the responsibility of the customer/user and their employees.

Most accidents involving injuries to workmen, and damage to products and equipment are the result of improper lifting and handling of materials. It is, therefore, the responsibility of the customer and/or user of the product to determine the suitability of the product for any particular use. In addition to the rated capacities of the products, all applicable OSHA industry, trade association, federal, state and local regulations should be adhered to by the customer and/or user of the product. The customer/user should also read and comply with all operating instructions and warnings.

Shipping

- UPS Ground unless otherwise specified (3rd Day, 2nd Day, Overnight)
- Heavy Orders may require a Freight Line Shipment
- Overseas shipping available
- Customers may utilize their shipping company account numbers

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Warning Statement

Anyone using this publication must read and understand all warnings and other information listed below and preceding and/or adjacent to the product description. The following apply to all of the products in this price list. Warnings specific to individual products are printed at the beginning of each product section.

All products are sold with the express understanding that the purchaser is thoroughly familiar with their correct application and safe use. Use all products properly, in a safe manner and for the application for which they were intended. Miami Cordage / Florida Wire & Rigging assumes no responsibility for the use or misapplication of any product sold by this firm. Responsibility for design and use decisions rests with the user.

REMEMBER: ANY PRODUCT WILL BREAK IF ABUSED, MISUSED, OVERUSED OR NOT MAINTAINED PROPERLY.

Such breaks can cause loads to fall or swing out of control, possibly resulting in serious injury or death as well as major property damage.

Therefore:

1. Never exceed the working load limit (WLL).
2. Match components properly.
3. Keep out from under a raised load.
4. Avoid shock loads.
5. Inspect products regularly.

It would be impossible in the scope of this publication to list all possible dangers and misapplications associated with the use of all products contained herein. However, in order to promote safe rigging habits, the most common hazards associated with the use of these products are outlined.

Working Load Limit

This is the term used throughout the catalog. There are, however, other terms used in the industry which are interchangeable with the term Working Load Limit. These are: WLL, SWL, Safe Working Load, Rated Load Value, Resulting Safe Working Load, and Rated Capacity.

Never exceed the Working Load Limit.

The Working Load Limit is the maximum load which should ever be applied to a product, even when the product is new and when the load is uniformly applied - straight line pull only. Avoid side loading. All catalog ratings are based upon usual environmental conditions, and consideration must be given to unusual conditions such as extreme high or low temperatures, chemical solutions or vapors, prolonged immersion in salt water, etc. Such conditions or high-risk applications may necessitate reducing the Working Load Limit. Working Load Limit will not apply if product has been welded or otherwise modified.

Matching of Components

Components must match. Make certain that components such as hooks, links or shackles, etc. used with wire rope (or chain or cordage) are of suitable material size and strength to provide adequate safety protection. Attachments must be properly installed and must have a Working Load Limit at least equal to the product with which they are used. Remember: Any chain is only as strong as its weakest link.

Raised Loads

Keep out from under a raised load. Take notice of the recommendation from the Safety Council Accident Prevention Manual concerning all lifting operations:

"All employees working at cranes or hoists or assisting in hooking or arranging a load should be instructed to keep out from under the load. From a safety standpoint, one factor is paramount: Conduct all lifting operations in such a manner, that if there were an equipment failure, no personnel would be injured. This means keep out from under a raised load and keep out of the line of force of any load." Do not operate a load over people. Do not ride on loads.

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Shock Loads

Avoid impacting, jerking or swinging of load as the Working Load Limit could be exceeded and the Working Load Limit will not apply. A shock load is generally significantly greater than a static load. Avoid shock loads.

Regular Inspections

Inspect products regularly for visible damage, cracks, wear, elongation, rust, etc. Protect all products from corrosion. The need for periodic inspections cannot be overemphasized. No product can keep operating at its rated capacity indefinitely. Periodic inspections help determine when to replace a product and reduce rigging hazards. Keep inspection records to help pinpoint problems and to ensure periodic inspection intervals.

Due to the diversity of the products involved and uses to which they can be put, it would be counterproductive to make blanket recommendations for inspection procedures and frequency. Best results will be achieved when qualified personnel base their decisions on information from rigging and engineering manuals and on experience from actual use in the field. Refer to sources listed on the following page.

Frequency of inspection will depend on environmental conditions, application, storage of product prior to use, frequency of use, etc. When in doubt, inspect products prior to each use. Carefully check each item for wear, deformation, cracks or elongation - a sure sign of imminent failure. Immediately withdraw such items from service.

Rust damage is another potential hazard. When in doubt about the extent of corrosion or other damage, withdraw the items from service.

Destroy, rather than discard, items that have been judged defective. They might be used again by someone not aware of the hazard involved.

Additional warnings and information on wire rope, chain, cordage, blocks and tools can be found in the Table of Contents by clicking on the warning symbol icon (). These should be read and understood thoroughly before using a particular item.

Definitions

Information contained in this catalog is subject to change; all weights and dimensions are approximate. Ratings are stated in short tons (2,000 lbs/ton) or pounds. All dimensions are in inches and all weights are in pounds, unless stated otherwise.

Working Load Limit (WLL)

The Working Load Limit is the maximum load which should ever be applied to the product, even when the product is new and when the load is uniformly applied - straight line pull only. Avoid side loading. All catalog ratings are based upon usual environmental conditions and consideration must be given to unusual conditions such as extreme high or low temperatures, chemical solutions or vapors, prolonged immersion in salt water, etc. Never exceed the Working Load Limit.

Proof Test Load (Proof Load)

The term "Proof Test" designates a quality control test applied to the product for the sole purpose of detecting defects in material or manufacture. The Proof Test Load (usually twice the Working Load Limit) is the load which the product withstood without deformation when new and under laboratory test conditions. A constantly increasing force is applied in direct line to the product at a uniform rate of speed on a standard pull testing machine. The Proof Test Load does not mean the Working Load Limit should ever be exceeded.

Breaking Strength/Ultimate Strength

Do not use breaking strength as a criterion for service or design purposes. Refer to the Working Load Limit instead.

Breaking Strength is the average force at which the product, in the condition it would leave the factory, has been found by representative testing to break, when a constantly increasing force is applied in direct line to the product at a uniform rate of speed on a standard pull testing machine. Proof testing to twice the Working Load Limit does not apply to hand-spliced slings.

Remember: Breaking Strengths, when published, were obtained under controlled laboratory conditions.

Listing of the Breaking Strength does not mean the Working Load Limit should ever be exceeded.

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Design Factor (Sometimes Referred To As Safety Factor)

An industry term usually computed by dividing the catalog Breaking Strength by the catalog Working Load Limit and generally expressed as a ratio. For example: 5 to 1.

Shock Load

A load resulting from rapid change of movement, such as impacting, jerking or swinging of a static load. Sudden release of tension is another form of shock loading. Shock loads are generally significantly greater than static loads. Any shock loading must be considered when selecting the item for use in a system. Avoid shock loads as they may exceed the Working Load Limit.

Additional Reference Materials

Consult the following sources for important technical literature and or safety manuals.

American Iron & Steel Institute
1101 17th Northwest Suite 1300
Washington, DC 20036
Telephone: 202/452-7100
Fax : 202/463-6573

American Petroleum Institute
Publications Department
1220 L. St. N.W.
Washington, DC 20005
Telephone: 202/682-8375
Fax : 202/682-8232

American Society for Testing Material
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Telephone: 610/832-9500
Fax : 610/832-9555

"The Cordage Institute"
350 Lincoln Street East
Hingham, MA 02043
Telephone: 781/749-1016
Fax : 781/749-9783

National Safety Council
1121 Spring Lake Drive
Itasca, IL 60143-3201
Telephone: 630/285-1121
The American Society of Mechanical
Engineers
22 Law Drive
P.O. Box 2900
Fairfield, NJ 07007-2900
Telephone: 973/882-1167
Fax : 973/882-1717

U.S. Government Printing Office
Postal Code 9325
Superintendent of Documents
Washington, DC 20402
Telephone: 202/512-1800

American National Standards Institute
11 W. 42nd St., 13th Floor
New York, NY 10036
Telephone: 212/642-4900

Construction Safety Association of Ontario
21 Voyager Court South
Etobicoke Ontario, Canada M9W5M7
Telephone: 416/674-2726
800/781-2726
Fax : 416/674-8866

"The Hand Tools Institute"
25 N. Broadway
Tarrytown, NY 10591
Telephone: 914/332-0040
Fax : 914/332-1541

Occupational Safety & Health Admin.
Department of Labor
200 Construction Ave. N.W. Room N 3101
Washington, DC 20210
Telephone: 202/523-1452

Wire Rope Technical Board
P.O. Box 286
Woodstock, MD 21163-0286
Telephone: 410/461-7030

These warnings also apply to cordage (rope)

• Never exceed The Working Load Limit of Rope

Use Working Load Limits as published as guidelines only. Working Load Limit may have to be reduced when life, limb or valuable property are at risk, or other than new rope is used. When using multiple leg rope slings, the Working Load Limit of each leg will have to be reduced considerably. Consult industry recommendations for information such as published by the Cordage Institute. Working Load Limit does not apply if rope has been subjected to severe dynamic loading, which may not be visible.

• Avoid Overheating

Exposure to high temperatures will cause ropes to lose strength rapidly. Even temperatures as low as 150° F (66° C) can reduce the strength of some ropes by 50%. When using synthetic rope (especially polypropylene) on a capstan or a winch, be careful to avoid excessive friction which heats, melts and fuses the outer fibers of the rope. Avoid repeated surging or hard rendering around poles or over cross arms. Polyester rope resists overheating best because its melting point is highest.

• Attachments Must Have At Least The Same Working Load Limit As The Rope Used

Hooks, links, shackles, etc. must be of suitable material and strength to provide adequate safety protection. Splice rope properly and use thimbles if applicable. Choose rope to match gear or gear to match rope. Sheaves, pulleys, thimbles, etc. that do not match the size of rope being used can cause dangerous friction, abrasion, overload, etc.

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- **Keep Out From Under a Raised Load**

Do not move load over people. Do not ride on load. Conduct all lifting operations in such a manner that if equipment were to fail or break, no personnel would be injured. This means **KEEP OUT FROM UNDER A RAISED LOAD, DO NOT OPERATE LOADS OVER PEOPLE AND KEEP OUT OF THE LINE OF FORCE.**

- **Avoid Shock Loads**

Rope that is strong enough to withstand a steady pull can be broken with a sudden jerk. Be aware of all possible dynamic loading situations. Avoid them when possible and allow for strong enough rope when they cannot be avoided. Keep in mind that the effects of dynamic loading are greater on shorter ropes than on longer ones and greater on low elongation ropes (such as Manila and polypropylene) than on high elongation rope (such as nylon). Never stand in the line of rope under strain. If the rope breaks it will recoil with considerable force, especially if it is nylon.

- **Inspect Rope Frequently**

Closely examine entire length of rope for damage to determine general condition and detect localized wear. Excessive abrasion, fraying of outside fibers, hockles, rust or other chemical stains, broken fibers or other obvious damage to rope are reasons to retire rope from service. Internal damage can be assessed by twisting strands open and checking for powdered fiber. Rope that is suspected of having been exposed to severe shock loads or loads close to its catalog Breaking Strength should be retired immediately. Such damage may not be visible. Actual remaining strength of damaged or used rope can only be established by laboratory analysis and tension tests.

- **Destroy, Rather Than Discard, Rope to be Retired**

It might be used again by someone not aware of the hazard or defect. This is best achieved by cutting it up into short pieces.

- **Rope Slings**

Refer to OSHA 1910.184 and ASME standard B30.9 for design factors and other important information. Other standards and information may apply in specific applications.

REFER TO “PROPER CARE OF ROPE” BELOW AND ON THE FOLLOWING PAGE FOR ADDITIONAL IMPORTANT CAUTIONS.

- **Avoid Abrasion and Unnecessary Wear**

Outer fibers as well as inner fibers contribute to a rope's strength. When outer fibers are worn by chafing or dragging over splintered, rough or gritty surfaces, the rope is worn and weakened. When rope is used on cleats, winch heads, etc. make sure they are smooth and use chafing gear if necessary.

- **Avoid Sharp Angles and Bends**

Sharp angles greatly affect the strength of a rope. Any sharp angle or bend is a weak spot. Use thimbles or chafing gear or padding where possible. Knots are also weak spots. They can reduce strength by as much as 50% or more. Use splices instead. Splice rope correctly. When a small section of a rope has been worn or damaged, cut out the section and splice it together. Splice in extra tucks for synthetic fiber ropes. Use proper splicing procedures as outlined by the Cordage Institute. Do not resplice rope that broke due to being overloaded - discard it instead. Its remaining strength will only be a fraction of the Working Load Limit when new. Prevent unraveling of rope - whip or tape cut ends.

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- **Avoid Sustained Loads**

Fiber ropes subjected to heavy loads for long periods of time can break well below catalog Breaking Strength. Natural fiber ropes such as Manila and Sisal have less ability to take sustained loads than synthetic fiber ropes such as nylon or polypropylene. Never exceed the Working Load Limit and do not subject fiber rope to sustained loads for more than two days.

- **Avoid Rust**

All ropes, synthetic or natural, should be kept away from rusting iron or steel. Rust can cause rapid loss of strength, sometimes in as short a time as one to two weeks. If ropes become rust stained, inspect the extent of the stain. If it is halfway through the rope, then rope strength may be reduced by as much as 50%.

- **Keep Rope Away From Chemicals**

Even though synthetic rope is generally considered to be resistant to damage from oils, gasoline, paint and most chemicals, exposure to any of these may cause some damage. Avoid contact with such things as storage battery solution, washing compounds or solutions, and animal wastes. Strong acids, alkalis and solvents can damage any rope. Natural fiber rope is extremely vulnerable to all chemicals and solvents.

- **Avoid The Use of Swivels in Ropes Under Load**

A loss of turn will cause permanent damage to the rope.

- **Never Use a Nylon Line Which Has a High Strength Factor in Combination With Another Rope of Low Stretch**

The nylon line will stretch and not carry its proportionate share of the load, thus putting extra strain on the other lines.

- **Reverse Ends of The Rope Periodically**

Especially in tackles and winches, reverse the rope end-for-end periodically so that all sections will be worn equally. Also, using a line in one direction over a winch many times can also damage the rope by twisting it too tight or untwisting it so that hockles occur. Kinks pulled through a restricted space such as a tackle block, can seriously damage rope fibers. The initial use should be in a clockwise direction, then reverse the rope periodically.

- **Slack Off Guys in Wet Weather**

When ropes are used as guy lines or other supports exposed to weather, they should be slacked off in wet weather, or damage to the rope, as well as what it is supporting, may result.

- **Store Rope Properly**

Rope is best stored in a dry, unheated place where air circulates freely, off the floor, and away from direct sunlight and other contact with the elements. Keep in mind that synthetic ropes will deteriorate in direct sunlight due to exposure to ultraviolet radiation. Light colored polypropylene especially is severely affected, smaller diameters more so than larger sizes. Natural fiber ropes (Manila and Sisal) will deteriorate in storage even under ideal conditions.

- **Dry Rope Properly**

Whenever natural fiber ropes become wet they should always be thoroughly dried before they are stored or they will rot in a very short time. Do NOT dry synthetic fiber rope in direct sunlight.

- **Keep Rope Clean**

Dirt on the surface of rope can become embedded inside and act as an abrasive on fibers. When rope gets dirty, wash it thoroughly with clean fresh water. Remember to dry natural fiber rope before storing.

- **Remove Rope From Coils and Reels Properly**

Regular right hand laid rope should be uncoiled in a counter clockwise direction.

Coiled rope: Lay the coil on the floor with the inside end at the bottom, then reach down through the center and pull the inside up through the coil. Reeled rope: Remove the rope from a reel by pulling it off the top while the reel is free to rotate. Rope should never be taken from a reel lying on its end because it is more likely to kink or hockle or pull yarns on the wooden flange. When substituting natural fiber rope with synthetic fiber ropes (or substituting one synthetic rope for another) substitution should not be made on a straight breaking strength-for-breaking strength basis only. Other important factors must be considered.

Diameter To Circumference				
Diameter fractions inches	Diameter decimal inches	Diameter mm	Circumference inches	Circumference mm
1/8"	0.125	3.2	0.4	10.0
3/16"	0.1875	4.8	0.6	15.0
1/4"	0.25	6.4	0.8	20.0
5/16"	0.3125	7.9	1.0	24.9
3/8"	0.375	9.5	1.2	29.9
7/16"	0.4375	11.1	1.4	34.9
1/2"	0.5	12.7	1.6	39.9
9/16"	0.5625	14.3	1.8	44.9
5/8"	0.625	15.9	2.0	49.9
3/4"	0.75	19.1	2.4	59.9
7/8"	0.875	22.2	2.8	69.8
1-0"	1.0	25.4	3.1	79.8
1-1/4"	1.25	31.8	3.9	99.8
1-1/2"	1.5	38.1	4.7	119.7
1-5/8"	1.625	41.3	5.1	129.7
1-3/4"	1.75	44.5	5.5	139.7
2-0"	2.0	50.8	6.3	159.7
2-1/4"	2.25	57.2	7.1	179.6
2-1/2"	2.5	63.5	7.9	199.6
2-5/8"	2.625	66.7	8.2	209.6
2-3/4"	2.75	69.9	8.6	219.5
3-0"	3.0	76.2	9.4	239.5
3-1/4"	3.25	82.6	10.2	259.4
3-1/2"	3.5	88.9	11.0	279.4
3-5/8"	3.625	92.1	11.4	289.4
3-3/4"	3.75	95.3	11.8	299.4
4-0"	4.0	101.6	12.6	319.3

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