



DENVER ROPE - BOAT LINE SELECTION GUIDE

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

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"	(2-4) 15-20 ft	custom	(4-8) 8-10 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, houseboat, 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.

For customer service and inquiries please call John 303-809-7274 or email john@denverrope.com;

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DENVER ROPE - DBN / HARDWARE STRENGTH GUIDE

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NYLON DOUBLE BRAID (DBN) Single Leg Tow Hawser				S/S Bow Shackle	S/S Safety Bolted Shackle	GALV Safety Bolted Shackle	S/S Swivel Eye Hook	S/S Spring - Harness Clip	Quick Release Snap Shackle	Trigger Release LB Shackle	Rope Connector c/w Spool, Shield, & Shackle
Diameter		Tensile	WLL	WLL	WLL	WLL	WLL	WLL	WLL	WLL	WLL
inches	mm	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds	pounds
1/2"	12	7,300	1,460	3/8"	3/8"	3/8"	5/16"	1/2", 1/2"	W2776	T20	SZ 1
5/8"	16	14,600	2,920	7/16", 1/2"	7/16", 1/2"	7/16"	3/8"	na, 1/2"	W2776	T20	SZ 2
3/4"	18	19,000	3,800	1/2", 5/8"	1/2", 5/8"	1/2"	1/2"		W2776	T20	SZ 3
7/8"	22	28,100	5,620	3/4", 7/8"	5/8", 3/4"	1/2"			W2776	T20	SZ 4
1-0"	24	33,200	6,640	1-0"	3/4"	5/8"			W2777	T20	SZ 4
1-1/4"	30	52,000	10,400	1-1/4"	1-0"	3/4"			W2778	T30	SZ 5
1-1/2"	36	74,000	14,800		1-1/4"	7/8"				T30	SZ 6
1-5/8"	40	92,100	18,420			1-0"				T40	SZ 6
1-3/4"	44	109,500	21,900			1-1/8"				T40	SZ 6
2-0"	48	129,700	25,940			1-1/4"				T50	SZ 7
2-1/4"	56	179,400	35,880			1-1/2"					SZ 7
2-1/2"	60	196,000	39,200			1-3/4"					SZ 8
2-5/8"	64	221,000	44,200			1-3/4"					SZ 8
2-3/4"	68	237,000	47,400			1-3/4"					SZ 9
3-0"	72	274,000	54,800			1-3/4"					SZ 9
3-1/4"	80	339,000	67,800			2-0"					SZ 9
3-5/8"	88	400,000	80,000			2-0"					SZ 10

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time. All hardware sizing is approximate. Thimble and rope thickness may require a larger shackle. Heavy Duty Towing Thimbles and Styles are available to include NEWCO, Blue Line, Tonsburg Mooring and Mandal Fairlead Shackles. We also supply towing plates, wire rope assemblies, stud link chain, and additional hardware as required. Additional fiber and rope construction styles are available.

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DENVER ROPE - Y-BRIDLE STRENGTH GUIDE

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NYLON DOUBLE BRAID (DBN) Single Leg Tow Hawser			DBN Y-Bridle Configuration with each leg at least 2x the boat's beam (min)		Dyneema Single Leg Tow Hawser			S/S Bow Shackle	S/S Safety Bolted Shackle	GALV Safety Bolted Shackle	Quick Release Snap Shackle	Trigger Release LB Shackle	Wire Rope Hawser Thimble
Diameter	Tensile	WLL	Tensile	WLL	Diameter	Tensile	WLL	WLL	WLL	WLL	WLL	WLL	WLL
inches	mm	pounds	pounds	pounds	inches	mm	pounds	pounds	pounds	pounds	pounds	pounds	pounds
1/2"	12	7,300	1,460	12,167	5/16"	8	12,300	2,460	1/2"	1/2"	7/16"	W2776	T20
5/8"	16	14,600	2,920	24,333	3/8"	9	17,600	3,520	5/8"	5/8"	1/2"	W2776	T20
3/4"	18	19,000	3,800	31,667	1/2"	12	30,600	6,120	1-0"	3/4"	5/8"	W2776	T30
7/8"	22	28,100	5,620	46,833	5/8"	16	47,500	9,500	1-1/4"	1-0"	3/4"	W2777	T30
1-0"	24	33,200	6,640	55,333	3/4"	18	58,000	11,600		1-0"	7/8"	W2778	T40
1-1/4"	30	52,000	10,400	86,667	7/8"	22	81,700	16,340		1-1/4"	1-0"		T40
1-1/2"	36	74,000	14,800	123,333	1-0"	24	98,100	19,620			1-1/8"		T40
1-5/8"	40	92,100	18,420	153,500	1-1/4"	30	149,000	29,800			1-1/4"		T50
1-3/4"	44	109,500	21,900	182,500	1-1/4"	30	149,000	29,800			1-1/2"		T50
2-0"	48	129,700	25,940	216,167	1-1/2"	36	205,000	41,000			1-3/4"		
2-1/4"	56	179,400	35,880	299,000	1-5/8"	40	255,000	51,000			1-3/4"		
2-1/2"	60	196,000	39,200	326,667	1-3/4"	44	302,000	60,400			2-0"		
2-5/8"	64	221,000	44,200	368,333	2-0"	48	343,000	68,600			2-0"		
2-3/4"	68	237,000	47,400	395,000	2-1/8"	52	411,000	82,200					
3-0"	72	274,000	54,800	456,667	2-1/4"	56	484,000	96,800					
3-1/4"	80	339,000	67,800	565,000	2-1/2"	60	529,000	105,800					
3-5/8"	88	400,000	80,000	666,667	3-0"	72	749,000	149,800					

These figures are for brand new rope. Age, wear, sunlight exposure, splices, and knots will further reduce these figures over time. All hardware sizing is approximate. Thimble and rope thickness may require a larger shackle. Heavy Duty Wire Rope Towing Thimbles and Styles are available to include NEWCO, Blue Line, Tonsburg Mooring and Mandal Fairlead Shackles. We also supply towing plates, wire rope assemblies, stud link chain, and additional hardware as required. Additional fiber and rope construction styles are available.

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