



## DENVER ROPE - ROPE STRENGTH GUIDE

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

NYLON DOUBLE BRAID			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6	1,900	380
3/8"	9	4,900	980
1/2"	12	8,500	1,700
5/8"	16	13,500	2,700
3/4"	18	19,400	3,880
7/8"	22	26,300	5,260
1-0"	24	34,000	6,800
1-1/4"	30	52,000	10,400
1-1/2"	36	74,000	14,800
1-5/8"	40	92,400	18,480
1-3/4"	44	106,000	21,200
2-0"	48	126,000	25,200
2-1/4"	56	166,000	33,200
2-1/2"	60	189,000	37,800
2-5/8"	64	222,000	44,400
2-3/4"	68	237,000	47,400
3-0"	72	277,000	55,400
3-1/4"	80	341,000	68,200
3-5/8"	88	409,000	81,800

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	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6	2,000	400
3/8"	9	4,400	880
1/2"	12	8,200	1,640
5/8"	16	14,000	2,800
3/4"	18	20,000	4,000
7/8"	22	29,900	5,980
1-0"	24	38,000	7,600
1-1/4"	30	54,500	10,900
1-1/2"	36	72,000	14,400
1-5/8"	40	77,800	15,560
1-3/4"	44	89,200	17,840
2-0"	48	110,000	22,000
2-1/4"	56	141,000	28,200
2-1/2"	60	170,000	34,000
2-5/8"	64	186,000	37,200
2-3/4"	68	206,000	41,200
3-0"	72	237,000	47,400
3-1/4"	80	292,000	58,400
3-5/8"	88	348,000	69,600

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<b>NYLON 3-STRAND TWISTED</b>			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6	1,650	281
3/8"	9	3,700	629
1/2"	12	6,400	1,088
5/8"	16	10,400	1,768
3/4"	18	14,200	2,414
7/8"	22	20,000	3,400
1-0"	24	25,000	4,250
1-1/4"	30	37,500	6,375
1-1/2"	36	53,000	9,010
2-0"	48	92,000	15,640
2-1/2"	60	125,000	21,250
3-0"	72	200,000	34,000
4-0"	96	360,000	61,200

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

<b>MANILA 3-STRAND TWISTED</b>			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6	540	92
3/8"	9	1,215	207
1/2"	12	2,385	405
5/8"	16	3,960	673
3/4"	18	4,860	826
7/8"	22	6,930	1,178
1-0"	24	8,100	1,377
1-1/4"	30	12,150	2,066
1-1/2"	36	16,550	2,814
1-5/8"	40	20,250	3,443
1-3/4"	44	23,850	4,055
2-0"	48	27,900	4,743
2-1/4"	56	36,900	6,273
2-1/2"	60	41,850	7,115
3-0"	72	57,600	9,792
3-1/4"	80	69,300	11,781
3-1/2"	84	81,900	13,923
4-0"	96	94,500	16,065

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<b>POLYPROPYLENE 3-STRAND TWISTED</b>			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6	1,250	213
3/8"	9	2,700	459
1/2"	12	4,200	714
5/8"	16	6,200	1,054
3/4"	18	8,500	1,445
7/8"	22	11,500	1,955
1-0"	24	14,000	2,380
1-1/4"	30	21,000	3,570
1-1/2"	36	29,700	5,049
1-5/8"	40	36,000	6,120
1-3/4"	44	43,000	7,310
2-0"	48	52,000	8,840
2-1/4"	56	69,000	11,730
2-1/2"	60	80,000	13,600
3-0"	72	114,000	19,380
3-1/4"	80	137,000	23,290
3-1/2"	84	162,000	27,540
4-0"	96	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.

<b>POLYPROPYLENE 8-STRAND</b>			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
2-1/2"	60	72,000	12,240
2-5/8"	64	81,000	13,770
3-0"	72	103,000	17,510
3-1/4"	80	123,000	20,910
4-0"	96	171,000	29,070

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AMSTEEL / DYNEEMA 12-STRAND			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6	-	-
3/8"	9	19,600	3,920
1/2"	12	34,000	6,800
5/8"	16	52,800	10,560
3/4"	18	64,400	12,880
7/8"	22	90,800	18,160
1-0"	24	109,000	21,800
1-1/4"	30	165,000	33,000
1-1/2"	36	228,000	45,600
1-5/8"	40	283,000	56,600
1-3/4"	44	335,000	67,000
2-0"	48	381,000	76,200
2-1/4"	56	537,000	107,400
2-1/2"	60	588,000	117,600
2-5/8"	64	662,000	132,400
2-3/4"	68	735,000	147,000
3-0"	72	831,000	166,200
3-1/4"	80	1,007,000	201,400
3-5/8"	88	-	-

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

NYLON 12-STRAND PLAIT			
Diameter	Diameter	Tensile Strength	Working Load
inches	mm	pounds	pounds
1/4"	6	-	-
3/8"	9	-	-
1/2"	12	-	-
5/8"	16	13,900	2,780
3/4"	18	17,900	3,580
7/8"	22	26,200	5,240
1-0"	24	30,100	6,020
1-1/4"	30	45,400	9,080
1-1/2"	36	64,800	12,960
1-5/8"	40	76,300	15,260
1-3/4"	44	92,100	18,420
2-0"	48	106,500	21,300
2-1/4"	56	152,000	30,400
2-1/2"	60	170,000	34,000
2-5/8"	64	189,000	37,800
2-3/4"	68	214,000	42,800
3-0"	72	245,000	49,000
3-1/4"	80	288,000	57,600
3-5/8"	88	338,000	67,600

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