

Nylon Braided

Nylon Braided is the preferred choice for applications requiring high strength with excellent shock absorbing properties. Double Braid has good resistance to abrasion, sunlight and chemicals. Due to its high elongation, nylon is almost always used in applications involving shock loading such as anchor lines and mooring lines.

Nylon Braided is delivered standard with an overlay marine finish.

Features & Benefits

- High stretch
- High strength
- Excellent shock absorption
- Soft hand
- Torque free

Applications

- Anchor lines
- Mooring lines
- Shock absorbers
- Pendants
- Towlines
- Towed array stretchers

Technical Information

Specific gravity	1.14*
Melting point	414°F (212°C)
Critical temp.	300°F (149°C)
Coefficient of friction	0.12–0.15*
Elongation at break	30–35%
Fiber water absorption	3–4%
UV resistance	good
Wet abrasion	excellent
Dry abrasion	excellent

* value based on data supplied by the fiber manufacturer for new, dry fiber

Nominal Diameter		Size (circ in.)	Approximate Weight		Minimum Tensile Strength Spliced Rope		Minimum Tensile Strength ISO Unspliced Rope	
inch	mm		lbs/100ft	kg/100m	lbs	MT (tonnes)	lbs	MT (tonnes)
1/4	6	3/4	1.7	2.5	1,900	0.9	2,100	1.0
5/16	8	1	2.6	3.9	2,900	1.3	3,200	1.5
3/8	9	1-1/8	3.7	5.5	4,200	1.9	4,700	2.1
7/16	11	1-1/4	5.1	7.6	5,700	2.6	6,300	2.9
1/2	12	1-1/2	6.6	9.8	7,400	3.4	8,200	3.7
9/16	14	1-3/4	9	13.4	10,200	4.6	11,300	5.1

ABS and DNV Type Approved Sizes

5/8	16	2	11.6	17.2	14,800	6.7	16,400	7.4
3/4	18	2-1/4	14.7	21.9	19,000	8.6	21,100	9.6
7/8	22	2-3/4	21.8	32.4	28,300	12.8	31,400	14.2
1	24	3	26	38.7	33,500	15.2	37,200	16.9
1-1/16	26	3-1/4	31	46.1	39,000	17.7	43,300	19.6
1-1/8	28	3-1/2	35.4	52.7	44,900	20.4	49,900	22.6
1-1/4	30	3-3/4	40.7	60.6	52,300	23.7	58,100	26.4
1-5/16	32	4	46.3	68.9	58,800	26.7	65,300	29.6
1-1/2	36	4-1/2	58.4	86.9	74,000	33.6	82,200	37.3
1-5/8	40	5	72.3	107.6	92,400	41.9	102,700	46.6
1-3/4	44	5-1/2	87.7	130.5	110,900	50.3	123,200	55.9
2	48	6	103.9	154.6	131,500	59.7	146,100	66.3
2-1/8	52	6-1/2	122	181.6	152,800	69.3	169,800	77.0
2-1/4	56	7	141.2	210.1	181,000	82.1	201,100	91.2
2-1/2	60	7-1/2	162.6	242	201,000	91.2	223,300	101.3

Tensile Strengths are determined in accordance with ISO standard, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d²) plus 4%. See reverse side for application and safety information.

Nylon Braid Elongation (%)

