N/P Composite Double Braid

N/P Composite is a double braided rope with the inner core made of multifilament polypropylene and the outer sleeve of nylon. N/P Composite combines the excellent sunlight and abrasion resistance of nylon with the flotation of polypropylene. It has a standard specific gravity of 1.01 and is available on special order with a specific gravity of 0.99.

N/P Composite Double Braid is delivered standard with an overlay marine finish.

Features & Benefits

- Moderate stretch
- High strength
- · Soft hand
- Torque free
- · Floats in sea water

Applications

- Vessel mooring lines (floating)
- Buoy lines
- Anchor lines

Nominal Diameter		Size (circ	Approximate Weight		Minimum Tensile Strength Spliced Rope		Minimum Tensile Strength ISO Unspliced Rope	
inch	mm	ìn.)	lbs/ 100ft	kg/ 100m	lbs	MT (tonnes)	lbs	MT (tonnes)
5/8	16	2	10.5	15.6	9,800	4.4	10,900	4.9
3/4	18	2-1/4	13.8	20.5	12,900	5.9	14,300	6.5
7/8	22	2-3/4	19.4	28.9	18,100	8.2	20,100	9.1
1	24	3	23.6	35.1	21,800	9.9	24,200	11.0
1-1/8	28	3-1/2	31.9	47.5	29,400	13.3	32,700	14.8
1-1/4	30	3-3/4	37.9	56.4	34,700	15.7	38,600	17.5
1-5/16	32	4	42.8	63.7	39,000	17.7	43,000	19.5
1-1/2	36	4-1/2	53.6	79.8	48,000	21.8	53,000	24.0
1-5/8	40	5	63.8	94.9	57,800	26.2	64,000	29.0
1-3/4	44	5-1/2	80.6	119.9	72,000	32.7	80,000	36.3
2	48	6	92.6	137.8	83,200	37.7	92,000	41.7
2-1/8	52	6-1/2	111	165.2	98,400	44.6	109,000	49.5
2-1/4	56	7	129	192	113,000	51.3	126,000	57.2
2-1/2	60	7-1/2	145	215.8	129,000	58.5	143,000	64.9
2-5/8	64	8	169	251	146,000	66.2	162,000	73.5
2-3/4	68	8-1/2	186	276.8	163,000	74.0	181,000	82.1
3	72	9	210	312.5	182,000	82.6	202,000	91.7
3-1/4	80	10	259	385.4	221,000	100.3	246,000	111.6
3-5/8	88	11	314	467.3	263,000	119.3	292,000	132.5
4	96	12	371	552.1	310,000	140.7	344,000	156.1
4-1/4	104	13	443	659.3	363.000	164.7	403.000	182.8

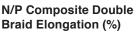
Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d²) plus 4%. See reverse side for application and safety information

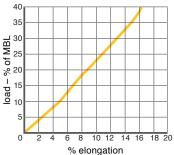
Technical Information Specific gravity 1.01* Melting point Critical temp. Coefficient of friction 0.12-0.15* Elongation at break 30-35% Fiber water absorption 3-4% good UV resistance Wet abrasion good Dry abrasion good

* value based on data supplied by the

fiber manufacturer for new, dry fiber

284°F (140°C) 200°F (93°C)





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Rope Specifications

Minimum Tensile Strength Minimum tensile strengths shown are for new (unused) rope and will decrease after use. All tests are performed in accordance with Cordage Institute Standard CI 1500-2. The rope strength will be reduced after use due to heat, abrasion, ultraviolet or chemical exposure. The tensile strengths may be further reduced by up to 50% as a result of knots or kinks. Minimum tensile strengths are defined as two standard deviations (typical about 10%) below the average.

Maximum Working Loads Maximum working loads are determined by dividing the tensile strength by the safety factor. The safety factor is a function of the physical properties of the rope, the age and history of the rope, the type of service it will be subjected to and the risks involved if failure occurs. For a rope manufacturer to give blanket working load recommendations would be like a car manufacturer giving the "safe driving speed" of their cars. Obviously the conditions of use far outweigh the design characteristics of the rope. Typically safety factors vary from 3:1 (for new rope used in applications with uniform loading and where failure would cause little or no risk to equipment or personnel) to 20:1 (for conditions involving moderate shock loading, possibility of snags or kinks or where failure could cause severe risk to equipment or personnel).

Rope Weights Rope weights shown are average and may vary plus or minus 5%.

Working Elongation Working elongation is shown from a preload tension of 200 times the diameter squared per the Cordage Institute Standard.

Special Requirements

Factory Splicing Various types are available for all of our ropes. Splices can be provided with various types of chafe protection or coatings.

Custom Lengths Special constructions are available on request.

Rope Terminations Custom terminations such as thimbles, links, rings and custom hardware can be provided. Terminations are available in plastic, bronze, stainless steel and galvanized steel. Please call, or email your requirements to support@ravenox.com for a quotation.

Special Coatings Coatings such as polyurethane, polyethylene and vinylesters may be applied to any of the synthetic ropes to improve snag resistance, sunlight resistance or for color coding. Ropes are available with a variety of finishes to meet your needs.

Commercial and Military Specifications Certificates of compliance are supplied at no charge if requested when placing the order. Certified test reports can be provided at an additional charge when requested at the time of the order.

Returned Goods Subject to a minimum 20% restocking charge upon inspection. No returns will be accepted without prior authorization.