

D/S Composite is a double braided rope with the inner core made of High Modulus Polyethylene (HMPE) and the outer sleeve of polyester. D/S Composite has very low elongation, high strength and the feel and handling of polyester double braid. It is identified with two external black markers.

D/S Composite is delivered standard with an overlay marine finish and is available on special order with a spliceable polyurethane finish in clear or any of six colors.

Features & Benefits

- High strength
- Low stretch
- Soft hand
- Torque free
- · Easy splicing

Applications

- · Utility winch lines
- · Utility pulling lines
- · Crane lines
- Vessel mooring lines
- Theatrical rigging

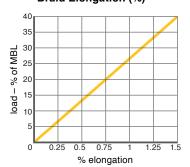
Nominal Diameter		Size (circ	Approximate Weight		Minimum Tensile Strength Spliced Rope		Minimum Tensile Strength ISO Unspliced Rope	
inch	mm	in.)	lbs/ 100ft	kg/ 100m	lbs	MT (tonnes)	lbs	MT (tonnes)
5/8	16	2	12.5	18.6	24,600	11.2	27,300	12.4
3/4	18	2-1/4	15.9	23.7	31,500	14.3	35,000	15.9
7/8	22	2-3/4	24.9	37.1	44,800	20.3	49,800	22.6
1	24	3	30.8	45.8	51,600	23.4	57,300	26.0
1-1/8	28	3-1/2	36.8	54.8	65,500	29.7	72,800	33.0
1-1/4	30	3-3/4	42.6	63.4	72,700	33.0	80,800	36.7
1-5/16	32	4	49.7	74	79,500	36.1	88,300	40.1
1-1/2	36	4-1/2	64	95.2	100,000	45.4	111,000	50.4
1-5/8	40	5	76	113.1	120,000	54.4	133,000	60.3
1-3/4	44	5-1/2	89.8	133.6	139,000	63.1	154,000	69.9
2	48	6	107	159.2	165,000	74.9	183,000	83.0
2-1/8	52	6-1/2	125	186	183,000	83.0	203,000	92.1
2-1/4	56	7	141	209.8	215,000	97.5	239,000	108.4
2-1/2	64	7-1/2	174	258.9	236,000	107.1	262,000	118.9

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 284°F (140°C) Melting point 150°F (65°C) Critical temp. Coefficient of friction 0.12-0.15* Elongation at break 3%-4% Fiber water absorption 0-1% UV resistance excellent excellent Wet abrasion Dry abrasion excellent

D/S Composite Double Braid Elongation (%)



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

D/S Composite Double Braid

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.