D/V Composite Double Braid

D/V Composite is a double braided rope with the inner braided core made of Vectran[®] high modulus fiber and the outer sleeve of filament polyester. Available in white or black, the resultant finished braid has very low elongation and creep, high strength and the feel and handling of a polyester double braid.

D/V Composite double braid with a black polyester cover is very popular in the theatrical rigging industry and provides excellent service as a winch line.

Standard D/V Composite is delivered with a clearcolor overlay marine finish and is available on special order with a splice-able polyurethane finish in black or other colors.

Features & Benefits

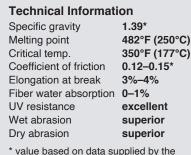
- High strength
- · Low stretch and creep
- · Soft hand
- Torque-balanced construction
- Easy to splice Class II Core-Dependent Eye Splice

Applications

- · Theatrical winch and rigging lines
- Utility winch lines
- Utility pulling lines
- Crane lines
- Vessel mooring lines
- · Lifting slings

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)
3/16	5	9/16	0.002	0.0239	3,600	1.6	4,000	1.8
1/4	6	3/4	0.025	0.0373	4,900	2.2	5,400	2.5
5/16	8	15/16	0.040	0.0597	9,200	4.2	10,200	4.6
3/8	9	1-1/8	0.077	0.1149	13,400	6.1	14,900	6.8
1/2	12	1-1/2	0.100	0.1492	16,200	7.4	18,000	8.2
3/4	19	2-1/4	0.148	0.2208	27,400	13	30,100	14.0

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.











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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 Cortland can provide custom terminations such as thimbles, links, rings and custom hardware. Terminations are available in plastic, bronze, stainless steel and galvanized steel. Please call, or email your requirements to cortland@cortlandcompany.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. Cortland can provide ropes 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.

