

Optimus

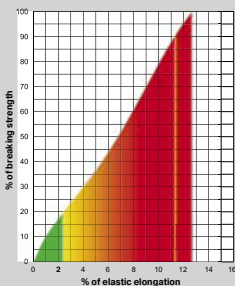
Single Braid



Optimus is a single-braid 12-strand rope manufactured from a solution-dyed polyester and coated with our riggers-grade, abrasion resistant coating to maximize protection. The vibrant polyester colorfast fibers are resistant to fading and provide lifelong visibility.

Optimus provides optimal UV and weather resistance while maintaining its lightweight and flexible characteristics. The Optimus is color coded by diameter for easy identification in the field. Manufactured with a braid angle specifically designed for slings and splicing.

Diameter (in)	Spliced Minimum Breaking Strength (lbf)*	Unspliced Minimum Breaking Strength (lbf)**	Average Breaking Strength (lbf)	Weight (lb/ 100ft)
3/8	5,400	5,900	6,000	4.0
1/2	12,000	13,000	13,500	9.2
5/8	17,000	18,500	19,000	11.7
3/4	22,500	24,500	25,000	16.0
7/8	32,000	35,500	36,000	25.0



Energy Absorption

The colored area under the curve represents the rope's ability to do "work" and is expressed in foot-pounds per pound of rope in tension.

■ Green working 351 ft. lbs./lb.

■ Red ultimate 9,915 ft. lbs./lb.

Dielectric Strength: The maximum allowable leakage for clean, dry Optimus is 100 micro-amperes when tested at 100kV per Yale Method 712-1701 Rev 1 "Routine Production Test." Absorbed and entrained moisture or impurities will increase rope's conductivity dramatically.

Approved Splice Technique: #10015101.

Minimum Break Strength

Specific Gravity: 1.38

*Knots and abrupt bends significantly reduce the strength of all ropes and lower maximum working load.

**Working load is based on static or moderately dynamic lifting/ pulling operations. Instantaneous changes in load, up or down, in excess of 10% of the rope's rated working load constitute hazardous shock load and would void the normal working-load recommendation. Consult Yale Cordage for guidelines for working loads and the safe use of rope.