Optimus

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

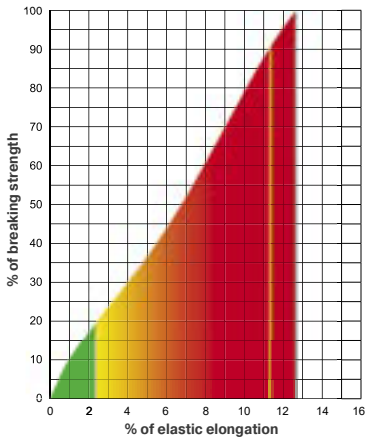
Optimus provides optimal UV and weather resistance while maintaining its lightweight and flexible characteristics. The Optimus is color coded by diameter for easy identification in the field. Manufactured with a braid angle specifically designed for slings and splicing.

Specifications

Diameter Inches	Diameter mm	Weight Lbs/100ft	Weight Kg/100m	Average Spliced Break Strength* Lbs	Average Spliced Break Strength* Kg	Minimum Spliced Break Strength* Lbs	Minimum Spliced Break Strength* Kg	Maximum** Work Load 5:1 Lbs	Maximum** Work Load 5:1 Kg
3/8	10	4.0	6.0	6,000	2,720	5,400	2,448	1,200	544
1/2	13	9.2	13.7	13,500	6,125	12,150	5,513	2,700	1,225
5/8	16	11.7	17.4	19,000	8,625	17,100	7,763	3,800	1,725
3/4	19	16	23.8	25,000	11,350	22,500	10,215	5,000	2,270
7/8	22	25	37.2	36,000	16,340	32,400	14,706	7,200	3,268

* 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.



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.

Maximum Working Load
Minimum Break Strength
Average Break Strength

Specific Gravity: 1.38