

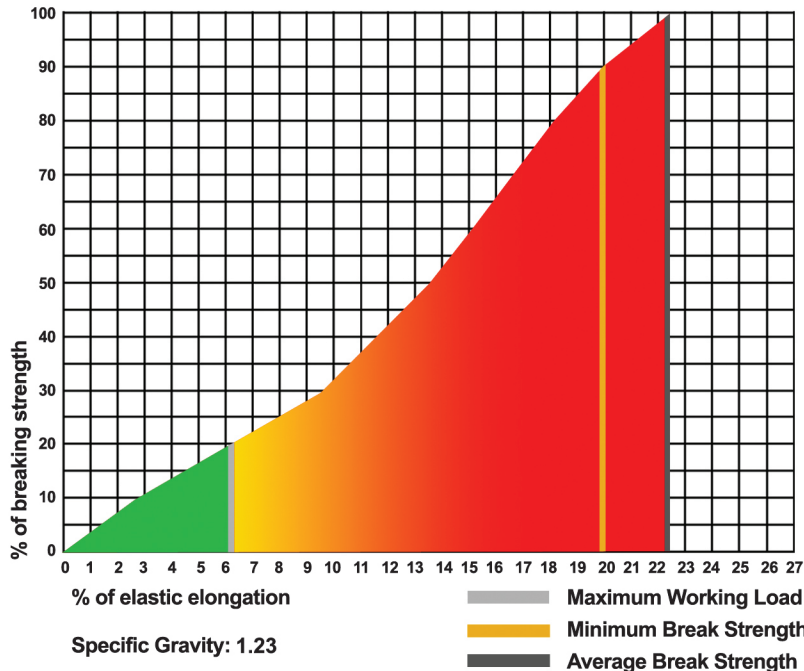
KERNMASTER™

Static-rappelling Kernmaster line is constructed with a traditional “mantle” sleeve consisting of 48 strands of polyester. The inside, or “kern,” is a braided core of energy-absorbing nylon. The core is fully steam-stabilized to enhance the rope’s flexibility and prevent hardening in service; the braid also bends more easily and

with less fatiguing of the core when cycled over sheaves or dropped over a parapet. Sleeve is either white or solution-cast fiber (color added prior to yarn production) which makes for lasting colors and enhanced wear resistance. **Standards:** 11mm, 12mm: CE0120 EN1891 Type A

Diameter Inches (mm)	Average Break Strength		Minimum Break Strength		Working Load for Rigging		Weight	
	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs/ 100ft	Kg/ 100m
3/8" (9mm)	4,245	1,925	3,821	1,733	849	385	2.3	3.4
7/16" (11mm)	7,100	3,220	6,390	2,905	1,420	644	5.5	8.2
1/2" (12mm)	9,200	4,182	8,600	3,910	1,840	836	7.6	11.4
5/8" (16mm)	12,500	5,682	11,250	5,682	2,500	1,136	11.4	17.0

- * **Knots** and abrupt bends significantly reduce the strength of all ropes and lowers maximum working load.
- ** **For situations where a man is on the rope, cut these working loads in half.** 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 constitutes hazardous shock load and would void normal working load recommendation. Consult Yale Cordage for guidelines for working loads and safe use of rope.



Energy Absorption

The colored area under the curve represents the rope’s energy-absorption capability.

- Green working 622 ft. lbs./lb.
- Red ultimate 9,775 ft. lbs./lb.

Dielectric Strength: The maximum allowable leakage for clean, dry Kernmaster is 500 Micro Amperes when tested at 90KV per ASTM 1701-05 “Routine Production Test”. Absorbed and entrained moisture or impurities will increase ropes conductivity dramatically.

Available with factory splices.

