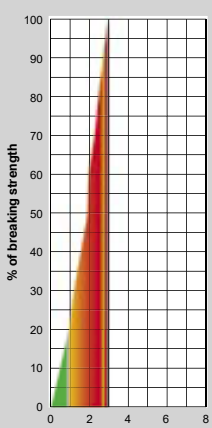
YALE CORDAGE
A SLINGMAX GROUP COMPANY

Vectrus
Single Braid

Vectrus is a single-braid rope of 100% Vectran™ LCP (Liquid Crystal Polymer) and is always treated with Yale's Maxijacket coating to increase abrasion resistance and enhance the fibers' UV resistance. LCP is more tolerant of tighter bending radii in terminations than other high-modulus fibers.

Diameter (in)	Spliced Minimum Breaking Strength (lbf)*	Unspliced Minimum Breaking Strength (lbf)**	Weight (lb/100ft)
1/16	690	760	0.2
1/8	2,300	2,500	0.5
5/32	4,300	4,700	0.9
3/16	5,000	5,500	1.0
1/4	8,900	9,800	1.9
5/16	14,000	15,000	3.1
3/8	16,500	18,000	3.6
7/16	22,000	24,000	5.3
1/2	28,500	31,500	7.4
9/16	33,500	37,000	10.0
5/8	44,500	49,000	12.6
3/4	63,000	69,000	19.4
7/8	74,000	82,000	23.6
1	99,000	105,000	33.5
1-1/4	135,000	145,000	46.1
1-3/8	170,000	185,000	58.4
1-1/2	195,000	215,000	67.9



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 232 ft. lbs./lb.
- Red ultimate 4,446 ft. lbs./lb.

Dielectric Strength: The maximum allowable leakage for clean, dry Vectrus 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: #10015109, #10018009.

Minimum Break Strength

Specific Gravity: 1.40

*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.