

Vectrus

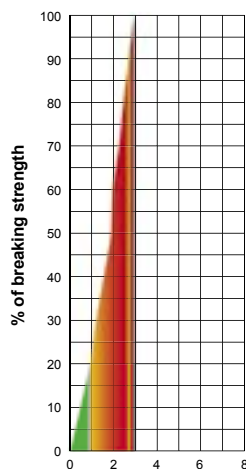


Vectrus is a single-braid rope of 100% Vectran™ LCP (Liquid Crystal Polymer) and is always treated with Yale's Maxijacket coating to increase abrasion resistance and enhance the fibers' UV resistance. LCP is more tolerant of tighter bending radii in terminations than other high-modulus fibers.

Diameter 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
1/16	2	0.2	0.3	800	360	720	324	160	72
1/8	3	0.4	0.6	2,790	1,265	2,511	1,139	558	253
5/32	4	0.9	1.3	4,820	2,185	4,338	1,967	964	437
3/16	5	1.2	1.8	5,600	2,540	5,040	2,286	1,120	508
1/4	6	1.9	2.8	8,200	3,720	7,380	3,348	1,640	744
5/16	8	2.8	4.2	16,260	7,380	14,634	6,642	3,252	1,476
3/8	10	4.0	6.0	19,470	8,835	17,523	7,952	3,894	1,767
7/16	11	5.5	8.2	26,390	11,980	23,751	10,782	5,278	2,396
1/2	13	7.5	11.2	32,000	14,525	28,800	13,073	6,400	2,905
9/16	14	10.0	14.9	38,000	17,250	34,200	15,525	7,600	3,450
5/8	16	12.7	18.8	52,500	23,835	47,250	21,452	10,500	4,767
3/4	19	19.4	28.9	70,000	31,780	63,000	28,602	14,000	6,356
7/8	22	24.5	36.5	89,000	40,405	80,100	36,365	17,800	8,081
1	25	31.1	46.4	109,000	49,485	98,100	44,537	21,800	9,897
1 1/4	32	46.1	68.6	147,000	66,735	132,300	60,062	29,400	13,347
1 3/8	35	58.4	87.0	187,000	84,895	168,300	76,406	37,400	16,979
1 1/2	38	67.9	101.1	210,000	95,340	189,000	85,806	42,000	19,068
1 5/8	41	79.9	119.0	245,000	111,230	220,500	100,107	49,000	22,246

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

- Maximum Working Load
- Minimum Break Strength
- Average Break Strength

Specific Gravity: 1.40

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.