

YALEX™

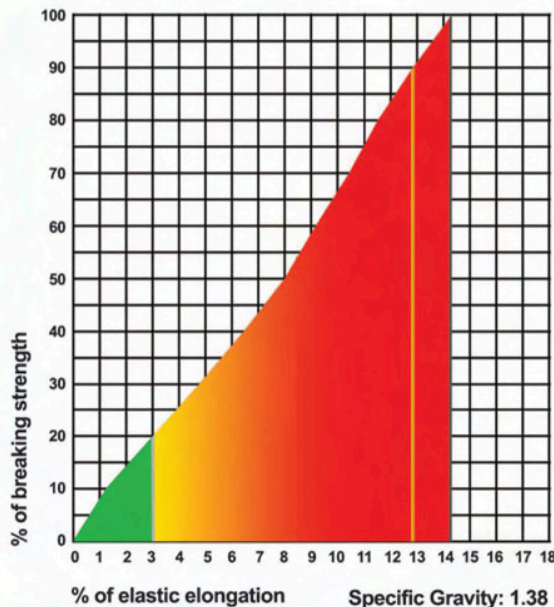
Yalex is a single braid, 12-strand rope constructed of specially lubricated IW81 high tenacity polyester. Yalex's two end per carrier structure creates a larger void in the middle of rope which makes it easier to splice, and makes used rope splicing much

easier to perform. Yalex is always coated with Yale's Maxijacket urethane coatings which reduces the new ropes tendency to snag, greatly enhances abrasion resistance and is a great way to color code ropes for application or load rating.

Diameter Inches (mm)	Average Spliced Break Strength*		Minimum Spliced Break Strength*		Maximum** Work Load 5:1		Weight	
	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs/100ft	Kg/100m
1/4 (6.0)	2,500	1,135	2,250	1,020	500	225	2.2	3.3
5/16 (8.0)	4,000	1,815	3,600	1,630	800	360	2.8	4.2
3/8 (9.0)	6,000	2,720	5,400	2,450	1,200	540	4.0	6.0
7/16 (11.0)	9,000	4,085	8,100	3,675	1,800	815	7.1	10.6
1/2 (12.0)	12,500	5,675	11,250	5,105	2,500	1,135	9.0	13.4
9/16 (14.0)	16,500	7,490	14,850	6,740	3,300	1,495	11.2	16.7
5/8 (16.0)	18,200	8,260	16,380	7,435	3,640	1,650	12.7	18.9
3/4 (18.0)	24,000	10,895	21,600	9,805	4,800	2,175	17.0	25.3
7/8 (22.0)	35,500	16,115	31,950	14,505	7,100	3,220	25.6	38.1
1 (24.0)	43,000	19,520	38,700	17,565	8,600	3,900	32.3	48.1
1-1/8 (27.0)	56,000	25,420	50,400	22,880	11,200	5,080	34.9	52.0
1-1/4 (30.0)	65,500	29,735	58,950	26,760	13,100	5,945	39.3	58.5
1-5/16 (32.0)	74,750	33,935	67,275	30,540	14,950	6,785	46.6	69.4
1-1/2 (36.0)	93,500	42,445	84,150	38,200	18,700	8,485	60.0	89.3
1-5/8 (40.0)	112,500	51,075	101,250	45,965	22,500	10,215	83.0	123.6
1-3/4 (42.0)	120,000	54,480	108,000	49,030	24,000	10,900	94.0	140.0
2 (48.0)	133,200	60,470	119,880	54,425	26,640	12,090	117.0	174.2

* **Knots** and abrupt bends significantly reduce the strength of all ropes and lowers 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 percent 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 ability to do "work" and is expressed in foot-pounds per pound of rope in tension.

- Green working 409 ft. lbs./lb.
- Red ultimate 10,700 ft. lbs./lb.

Dielectric Strength: The maximum allowable leakage for clean, dry Yalex is 100 Micro Amperes when tested at 90KV per ASTM 1701-05 "Routine Production Test". Absorbed and entrained moisture or impurities will increase ropes conductivity dramatically.

Splice using Yale's splicing technique document #10015101 (all sizes).

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