



Yalex

Yalex is a single-braid 12-strand rope constructed of premium over finish polyester fiber. Yalex’s two-end-per-carrier structure creates a larger void in the middle of the rope, which makes it easier to splice and makes used-rope splicing much easier to perform.

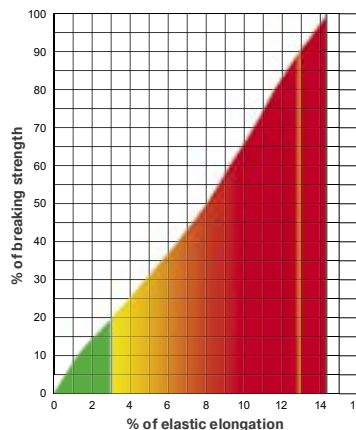
Yalex is always coated with Yale’s Maxijacket urethane coating, which reduces the new rope’s tendency to snag, greatly enhances abrasion resistance, and is a great way to color code ropes for application or load rating.

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
1/4	6	2.5	3.8	3,300	1,495	2,970	1,346	660	299
5/16	8	3.1	4.6	5,350	2,425	4,815	2,183	1,070	485
3/8	10	4.1	6.1	6,600	2,995	5,940	2,696	1,320	599
7/16	11	6.4	9.5	11,990	5,440	10,791	4,896	2,398	1,088
1/2	13	8.4	12.5	15,370	6,975	13,833	6,278	3,074	1,395
9/16	14	10.3	15.3	18,860	8,560	16,974	7,704	3,772	1,712
5/8	16	11.6	17.3	20,900	9,485	18,810	8,537	4,180	1,897
3/4	19	15.5	23.1	27,000	12,255	24,300	11,030	5,400	2,451
7/8	22	23.0	34.2	42,100	19,110	37,890	17,199	8,420	3,822
1	25	32.3	48.1	48,950	22,220	44,055	19,998	9,790	4,444
1 1/8	29	34.6	51.5	61,600	27,965	55,440	25,169	12,320	5,593
1 1/4	32	38.9	57.9	72,050	32,710	64,845	29,439	14,410	6,542
1 5/16	33	46.1	68.7	82,220	37,325	73,998	33,593	16,444	7,465
1 1/2	38	59.4	88.5	102,850	46,690	92,565	42,021	20,570	9,338
1 5/8	41	82.2	122.4	123,750	56,180	111,375	50,562	24,750	11,236
1 3/4	44	93.1	138.6	132,000	59,925	118,800	53,933	26,400	11,985
2	51	115.8	172.5	146,520	66,520	131,868	59,868	29,304	13,304

* 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 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 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