

Yalex



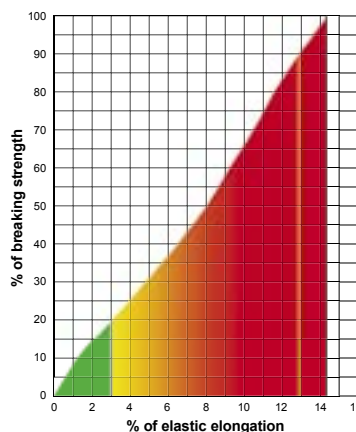
Yalex is a single-braid 12-strand rope constructed of premium over finish polyester fiber. Yalex's two-end-per-carrier structure creates a larger void in the middle of the rope, which makes it easier to splice and makes used-rope splicing much easier to perform.

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.

| 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
- Specific Gravity: 1.38