

# Ultrex



Advanced fiber technologies and engineering provide this product with its superior strength. Ultrex is made with UHMPE fiber from DSM Protective Materials, one of the most forgiving of the high-modulus fibers, giving it better sheave-cycling capabilities than other high-tech fibers. Ultrex's braid angles and twist level are designed to optimize break strength and keep stretch low.






Diameter Inches	Weight Lbs/100ft	Average Spliced Break Strength* Lbs	Minimum Spliced Break Strength* Lbs	Maximum** Work Load 5:1 Lbs
1/16	0.1	800	720	160
1/8	0.3	2,200	1,980	440
5/32	0.5	3,400	3,060	680
3/16	1.0	6,000	5,400	1,200
1/4	1.7	10,000	9,000	2,000
5/16	2.4	14,800	13,320	2,960
3/8	3.6	20,000	18,000	4,000
7/16	4.6	26,500	23,850	5,300
1/2	6.4	37,400	33,660	7,480
9/16	8.0	45,000	40,500	9,000
5/8	9.5	53,000	47,700	10,600
3/4	14.0	75,000	67,500	15,000
7/8	17.9	98,000	88,200	19,600
1	24.2	120,000	108,000	24,000
1-1/8	28.8	148,000	133,200	29,600
1-1/4	33.9	172,000	154,800	34,400
1-5/16	41.8	184,000	165,600	36,800
1-1/2	49.7	245,500	220,950	49,100
1-5/8	62.0	285,000	256,500	57,000
1-3/4	74.2	330,000	297,000	66,000
2	90.4	390,000	351,000	78,000

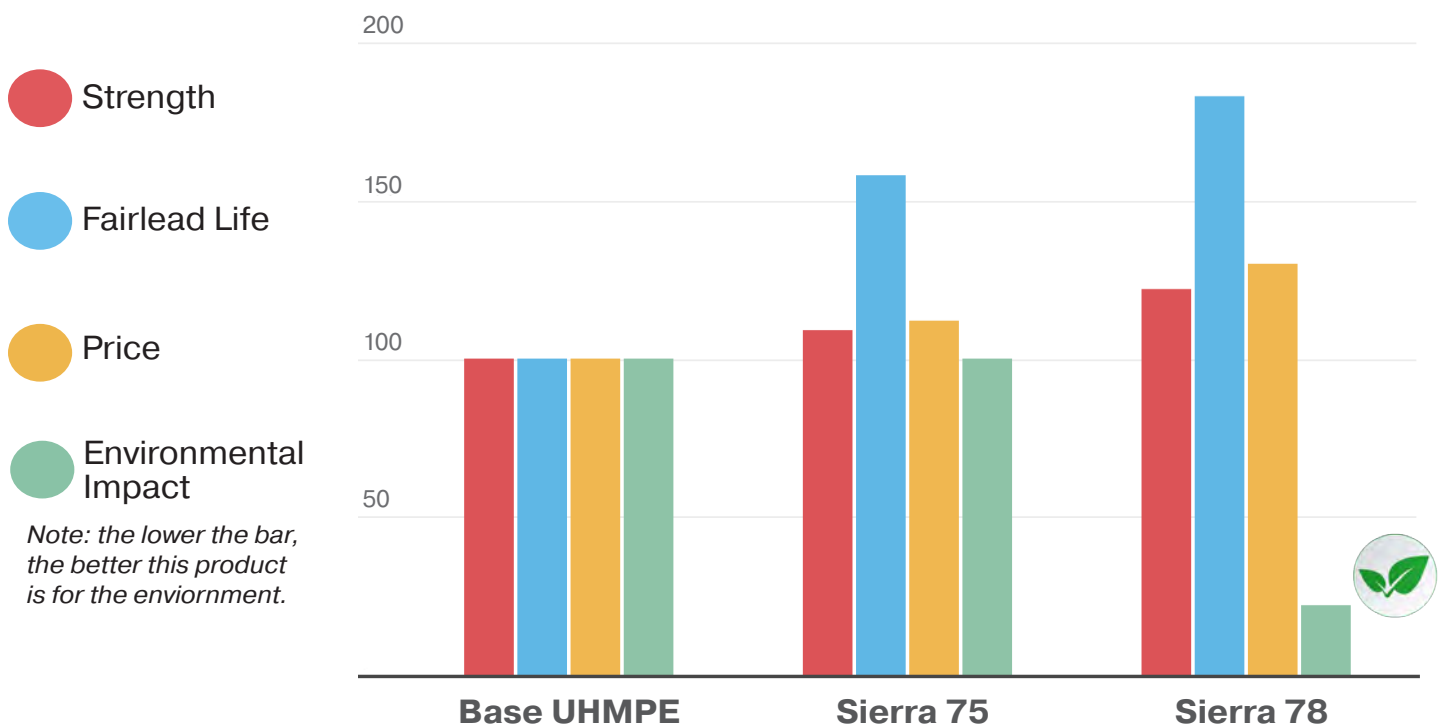
\* Knots and abrupt bends significantly reduce the strength of all ropes and lower maximum working load.  
 \*\* Working load is based on static or moderately dynamic lifting/pulling operations. Instantaneous changes in load, up or down, in excess of 10% of the rope's related working load constitute 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.

At Yale Cordage, we recognize that selecting the best fiber is as crucial to product performance as the engineering and design process. Our 70 years of experience in fiber technology and innovation allows us to deliver the best ropes and services to help you work smarter, not harder.

## Featured Applications

- 
**Electrical Industry**  
 Ideal for stringing, winch, tow, and underground pulling lines used in heavy pulling operations
- 
**Mining Lifelines**  
 Yale Ultrex is the superior alternative to traditional wire cable as it is lighter, safer, and stronger
- 
**Oceanographic**  
 Ultrex lends high tensile strength, low elongation, and superior wear life to marine applications

## Not All UHMPEs Are Created Equal



Our **Sierra 78** is a 12-strand single braid product made with bio-based Dyneema® fiber, the world's first ever bio-based UHMPE fiber. Get the same trusted performance you expect from a Yale Cordage product while reducing your business's carbon footprint. Ask your Sales Rep about **Sierra 78** today.