

# Ultrex Plus

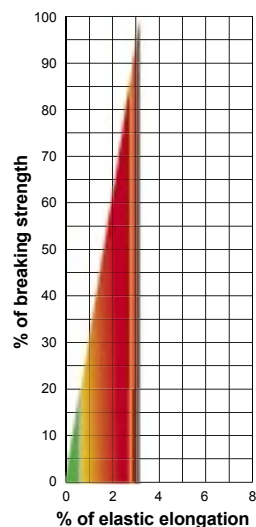


Ultrex Plus is a double braid constructed of an inner load bearing core of bio-based SK78 Dyneema® fiber, treated with Maxijacket coating for enhanced toughness. Sleeved with high-tenacity polyester, Ultrex Plus is spliceable, using conventional high-modulus splice techniques or the new Yale tuck splice, which shortens the bury portion and minimizes the length of the larger diameter associated with a bury-type splice.

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	2.4	3.6	6,180	2,805	5,562	2,525	1,236	561
5/16	8	2.9	4.3	9,580	4,345	8,622	3,911	1,916	869
3/8	10	3.8	5.7	13,080	5,935	11,772	5,342	2,616	1,187
7/16	11	4.9	7.3	15,760	7,155	14,184	6,440	3,152	1,431
1/2	13	7.3	10.9	22,660	10,285	20,394	9,257	4,532	2,057
9/16	14	9.0	13.4	30,000	13,620	27,000	12,258	6,000	2,724
5/8	16	11.6	17.3	35,020	15,895	31,518	14,306	7,004	3,179
3/4	19	14.1	21.0	46,350	21,040	41,715	18,936	9,270	4,208
7/8	22	22.8	34.0	64,890	29,460	58,401	26,514	12,978	5,892
1	25	26.0	38.7	77,250	35,070	69,525	31,563	15,450	7,014
1 1/8	29	35.8	53.3	103,000	46,760	92,700	42,084	20,600	9,352
1 1/4	32	43.5	64.8	123,600	56,110	111,240	50,499	24,720	11,222
1 5/16	33	45.7	68.1	152,400	69,185	137,160	62,267	30,480	13,837
1 1/2	38	61.3	91.3	177,160	80,430	159,444	72,387	35,432	16,086
1 5/8	41	71.7	106.8	189,520	86,040	170,568	77,436	37,904	17,208
1 3/4	44	85.6	127.5	236,900	107,550	213,210	96,795	47,380	21,510
2	51	108.6	161.7	293,550	133,270	264,195	119,943	58,710	26,654

\* 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 or 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.



## Energy Absorption

The colored area under the curve represents the rope's energy-absorption capability.

- Green working 140 ft. lbs./lb.
- Red ultimate 5,428 ft. lbs./lb.

**Dielectric Strength:** The maximum allowable leakage for clean, dry Ultrex Plus 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: #10015106, #10018007.

- Maximum Working Load
  - Minimum Break Strength
  - Average Break Strength
- Specific Gravity: 1.18