



## Ultrax Plus

**Ultrax Plus** is a double braid constructed of an inner load-bearing core of Ultra High Molecular Weight Polyethylene UHMWPE, treated with Maxijacket coating for enhanced toughness. Sleeved with high tenacity polyester, Ultrax Plus is spliceable using

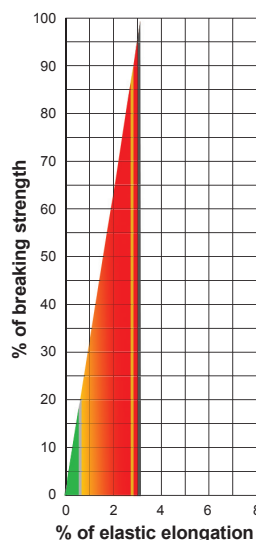
conventional high-modulus splice techniques or the Yale tuck splice, which shortens the bury portion and minimizes the length of the larger diameter associated with a bury-type splice. All strengths shown are for spliced line.

### Specifications

Diameter		Average Spliced Break Strength*		Minimum Spliced Break Strength*		Maximum** Working Load 5:1		Weight	
Inches	(mm)	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs/100ft	Kg/100m
1/4	(6)	6,000	2,720	5,400	2,448	1,200	544	2.4	3.6
5/16	(8)	9,500	4,310	8,550	3,879	1,900	862	2.9	4.3
3/8	(10)	12,700	5,765	11,430	5,189	2,540	1,153	3.8	5.7
7/16	(11)	15,300	6,945	13,770	6,251	3,060	1,389	4.9	7.3
1/2	(13)	22,000	9,985	19,800	8,987	4,400	1,997	7.3	10.9
9/16	(14)	28,000	12,710	25,200	11,439	5,600	2,542	9.0	13.4
5/8	(16)	34,000	15,435	30,600	13,892	6,800	3,087	11.6	17.3
3/4	(19)	45,000	20,430	40,500	18,387	9,000	4,086	14.1	21.0
7/8	(22)	63,000	28,600	56,700	25,740	12,600	5,720	22.8	34.0
1	(25)	75,000	34,050	67,500	30,645	15,000	6,810	26.0	38.7
1-1/8	(29)	100,000	45,400	90,000	40,860	20,000	9,080	35.8	53.3
1-1/4	(32)	120,000	54,480	108,000	49,032	24,000	10,896	43.5	64.8
1-5/16	(33)	148,000	67,190	133,200	60,471	29,600	13,438	45.7	68.1
1-1/2	(38)	172,000	78,085	154,800	70,277	34,400	15,617	61.3	91.3
1-5/8	(41)	184,000	83,535	165,600	75,182	36,800	16,707	71.7	106.8
1-3/4	(44)	230,000	104,420	207,000	93,978	46,000	20,884	85.6	127.5
2	(51)	285,000	129,390	256,500	116,451	57,000	25,878	108.6	161.7

\* Knots and abrupt bends significantly reduce the strength of all ropes and lower the 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 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 Ultrax 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