

DOUBLE ESTERLON™

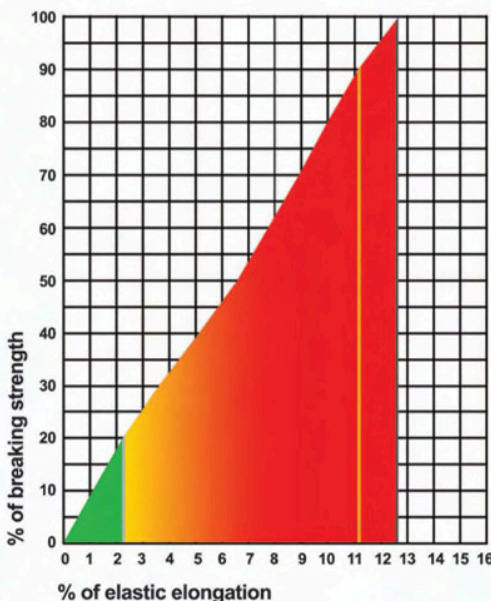
Double Esterlon is a double braided rope constructed of high tenacity 1W81 polyester fiber, which has a unique cordage finish. This yarn with an average strength of 9.2 grams per denier, along with Yale's careful attention to converting machinery setup, and the yarns extraordinary lubricity, yields the highest strength double braid polyester available.

Double Esterlon has low stretch, high strength, excellent wear life, dielectric strength and is completely spliceable delivering the cataloged strengths when spliced properly. It is identified by two green strands braided into the cover structure, and is available with optional Maxijacket urethane coating to further enhance the ropes wear resistance.

Diameter Inches (mm)	Average Spliced Break Strength*		Minimum Spliced Break Strength*		Maximum** Work Load 5:1		Weight	
	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs/ 100ft	Kg/ 100m
1/4 (6.0)	2,700	1,225	2,430	1,100	540	245	2.3	3.4
5/16 (8.0)	4,000	1,815	3,600	1,630	800	360	3.2	4.8
3/8 (9.0)	5,600	2,540	5,040	2,285	1,120	505	4.2	6.3
7/16 (11.0)	7,800	3,540	7,020	3,185	1,560	705	5.5	8.2
1/2 (12.0)	10,800	4,900	9,720	4,410	2,160	980	8.1	12.1
9/16 (14.0)	13,700	6,215	12,330	5,595	2,740	1,240	9.6	14.3
5/8 (16.0)	17,000	7,715	15,300	6,945	3,400	1,540	13.7	20.4
3/4 (18.0)	20,800	9,440	18,720	8,495	4,160	1,885	16.3	24.3
7/8 (22.0)	31,000	14,070	27,900	12,665	6,200	2,810	23.7	35.3
1 (24.0)	44,000	19,975	39,600	17,975	8,800	3,995	35.2	52.4
1-1/16 (26.0)	47,000	21,335	42,300	19,200	9,400	4,265	39.5	58.8
1-1/8 (27.0)	50,000	22,700	45,000	20,430	10,000	4,540	43.3	64.5
1-1/4 (30.0)	57,800	26,240	52,020	23,615	11,560	5,245	53.5	79.7
1-5/16 (32.0)	63,800	28,965	57,420	26,065	12,760	5,790	58.0	86.4
1-1/2 (36.0)	76,200	34,590	68,580	31,135	15,240	6,915	69.3	103.2
1-5/8 (40.0)	89,250	40,515	80,325	36,465	17,850	8,100	85.0	126.6
1-3/4 (42.0)	106,600	48,395	95,940	43,555	21,320	9,675	104.0	154.9
2 (48.0)	127,100	57,700	114,390	51,930	25,420	11,540	124.0	184.7

* **Knots** and abrupt bends significantly reduce the strength of all ropes and lowers 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 line's rated working load constitutes hazardous shock load and would void normal working-load recommendation. Consult Yale Cordage for guidelines for working loads and safe use of rope. Double Esterlon is made to Yale Cordage Specification #YCI-DE-022.



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 291 ft. lbs./lb.
- Red ultimate 7,711 ft. lbs./lb.

Dielectric Strength: The maximum allowable leakage for clean, dry Double Esterlon is 100 Micro Amperes when tested at 90KV per ASTM 1701-05 "Routine Production Test". Absorbed and entrained moisture or impurities will increase ropes conductivity dramatically.

Splice using Yale's splicing technique document #10017200 (all sizes).

- Maximum Working Load
- Minimum Break Strength
- Average Break Strength

Specific Gravity: 1.38