

# Double Esterlon



## Double Esterlon

**Double Esterlon** is a double-braided rope constructed of premium over finish polyester fiber in both the sleeve and core. This product is identified by two green strands braided into the cover structure and is available with optional Maxijacket urethane coating to further enhance the rope's wear resistance.

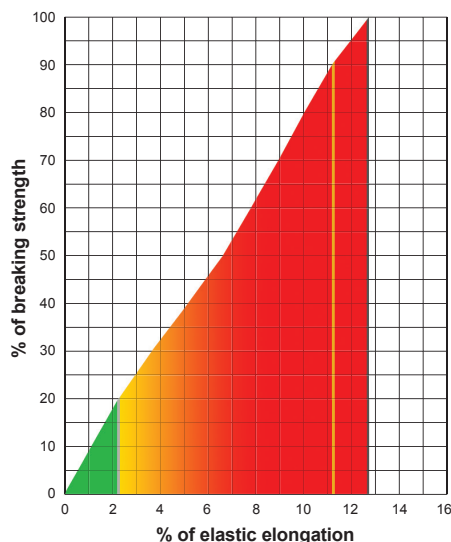
Double Esterlon has low stretch, high dielectric strength, and excellent wear life. Double Esterlon yields the highest-strength double braid polyester available. It is completely spliceable, delivering the cataloged strengths when spliced properly.

### 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)	2,700	1,225	2,430	1,103	540	245	2.3	3.4
5/16	(8)	4,000	1,815	3,600	1,634	800	363	3.2	4.8
3/8	(10)	5,600	2,540	5,040	2,286	1,120	508	4.2	6.3
7/16	(11)	7,200	3,265	6,480	2,939	1,440	653	5.5	8.2
1/2	(13)	10,800	4,900	9,720	4,410	2,160	980	7.8	11.6
9/16	(14)	13,290	6,030	11,961	5,427	2,658	1,206	9.6	14.3
5/8	(16)	17,000	7,715	15,300	6,944	3,400	1,543	13.7	20.4
3/4	(19)	20,800	9,440	18,720	8,496	4,160	1,888	16.7	24.9
7/8	(22)	31,000	14,070	27,900	12,663	6,200	2,814	24.0	35.7
1	(25)	44,000	19,975	39,600	17,978	8,800	3,995	34.5	51.4
1-1/16	(27)	47,000	21,335	42,300	19,202	9,400	4,267	39.5	58.8
1-1/8	(29)	50,000	22,700	45,000	20,430	10,000	4,540	43.3	64.5
1-1/4	(32)	57,800	26,240	52,020	23,616	11,560	5,248	53.5	79.7
1-5/16	(33)	63,800	28,965	57,420	26,069	12,760	5,793	58.0	86.4
1-1/2	(38)	76,200	34,590	68,580	31,131	15,240	6,918	69.3	103.2
1-5/8	(41)	89,250	40,515	80,325	36,464	17,850	8,103	85.0	126.6
1-3/4	(44)	106,600	48,395	95,940	43,556	21,320	9,679	104.0	154.9
2	(51)	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 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 line'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. 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 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: #10017200.

Maximum Working Load

Minimum Break Strength

Average Break Strength

Specific Gravity: 1.38