

Maxibraid Plus



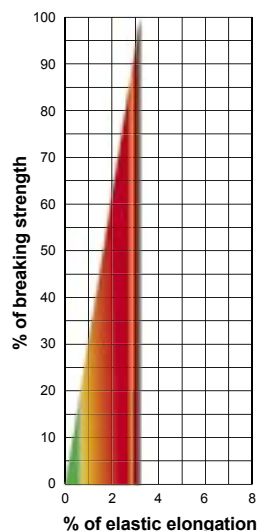
Maxibraid Plus is a double-braided rope constructed of an inner load-bearing core of Ultra High Weight Molecular Polyethylene (UHMWPE). The polyester outer sleeve is slightly thicker than Ultrex Plus, which would provide more abrasion resistance in high-wear applications.

The UHMWPE core is coated with Yale's Maxijacket coating prior to being over-braided, for added toughness. Yale has developed a special splice for larger sizes (3/4" and larger), which incorporates a tucked core yet is covered as a conventional double braid. The advantage to this splice is no movement of the eye in service and a greatly shortened internal tail, making the rope more flexible and less prone to being damaged adjacent to the eye.

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	2.1	3.1	5,400	2,450	4,860	2,205	1,080	490
5/16	8	3.2	4.7	10,270	4,660	9,243	4,194	2,054	932
3/8	10	4.3	6.4	13,180	5,980	11,862	5,382	2,636	1,196
7/16	11	5.5	8.2	16,150	7,330	14,535	6,597	3,230	1,466
1/2	13	7.3	10.9	21,000	9,530	18,900	8,577	4,200	1,906
9/16	14	9.1	13.6	28,000	12,710	25,200	11,439	5,600	2,542
5/8	16	11.0	16.4	34,000	15,435	30,600	13,892	6,800	3,087
3/4	19	14.2	21.1	44,000	19,975	39,600	17,978	8,800	3,995
7/8	22	21.3	31.7	63,000	28,600	56,700	25,740	12,600	5,720
1	25	25.8	38.3	75,000	34,050	67,500	30,645	15,000	6,810
1 1/8	29	32.2	47.9	100,000	45,400	90,000	40,860	20,000	9,080
1 1/4	32	37.9	56.5	123,000	55,840	110,700	50,256	24,600	11,168

* 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 115 ft. lbs./lb.
- Red ultimate 4,295 ft. lbs./lb.

Dielectric Strength: The maximum allowable leakage for clean, dry Maxibraid 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