# MAXIBRAID PLUS™

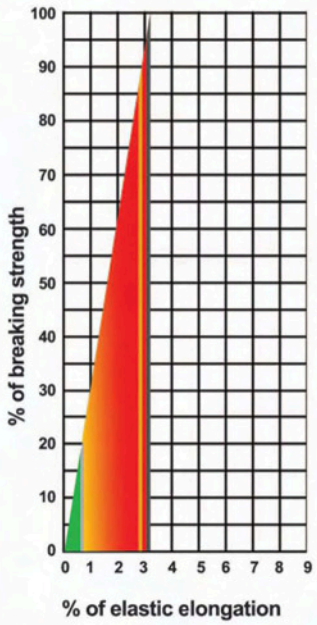
Maxibraid Plus is a double braided rope constructed of an inner load bearing core of Ultra High Molecular Weight Polyethylene (often abbreviated as UHMPE). The polyester outer sleeve is slightly thicker than Ultrex Plus, which would provide more abrasion resistance in high wear applications. The UHMPE core is coated with Yale's Maxijacket coating prior to being overbraided for added toughness Yale has developed a special splice for this line which incorporates a tucked core yet 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. Made with Honeywell Spectra Fiber.

**Honeywell Spectra® Fiber**

| 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) | 6,000 | 2,720 | 5,400 | 2,450 | 1,200 | 540 | 2.4 | 3.6 |
| **5/16** | **(8.0)** | **8,500** | **3,855** | **7,650** | **3,470** | **1,700** | **770** | **2.9** | **4.3** |
| 3/8 | (9.0) | 11,000 | 4,990 | 9,900 | 4,490 | 2,200 | 995 | 3.8 | 5.7 |
| **7/16** | **(11.0)** | **15,000** | **6,810** | **13,500** | **6,125** | **3,000** | **1,360** | **5.4** | **8.0** |
| 1/2 | (12.0) | 20,000 | 9,080 | 18,000 | 8,170 | 4,000 | 1,815 | 7.3 | 10.9 |
| **9/16** | **(14.0)** | **22,000** | **9,985** | **19,800** | **8,985** | **4,400** | **1,995** | **8.7** | **13.0** |
| 5/8 | (16.0) | 27,000 | 12,255 | 24,300 | 11,030 | 5,400 | 2,450 | 12.4 | 18.5 |
| **3/4** | **(18.0)** | **35,000** | **15,890** | **31,500** | **14,300** | **7,000** | **3,175** | **15.0** | **22.3** |
| 13/16 | (21.0) | 40,000 | 18,160 | 36,000 | 16,340 | 8,000 | 3,630 | 17.3 | 25.8 |
| **7/8** | **(22.0)** | **50,000** | **22,700** | **45,000** | **20,430** | **10,000** | **4,540** | **23.2** | **34.5** |
| 1 | (24.0) | 60,000 | 27,240 | 54,000 | 24,515 | 12,000 | 5,445 | 28.2 | 42.0 |
| **1-1/8** | **(27.0)** | **73,000** | **33,140** | **65,700** | **29,825** | **14,600** | **6,625** | **33.9** | **50.5** |
| 1-1/4 | (30.0) | 84,000 | 38,135 | 75,600 | 34,320 | 16,800 | 7,625 | 39.9 | 59.4 |
| **1-5/16** | **(32.0)** | **100,000** | **45,400** | **90,000** | **40,860** | **20,000** | **9,080** | **45.7** | **68.1** |
| 1-1/2 | (36.0) | 118,000 | 53,570 | 106,200 | 48,210 | 23,600 | 10,710 | 58.0 | 86.4 |
| **1-5/8** | **(40.0)** | **142,000** | **64,465** | **127,800** | **58,020** | **28,400** | **12,890** | **71.7** | **106.8** |
| 1-3/4 | (42.0) | 167,500 | 76,045 | 150,750 | 68,440 | 33,500 | 15,205 | 85.6 | 127.5 |

* **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 the rope's rated working load constitutes hazardous shock load and would void normal working load recommendation. Consult Yale Cordage for guidelines for working loads




**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.

Splice using Yale's splicing technique document **#10015106** for up to 3/4" sizes, and technique document **#10018007** (video) for 3/4" and larger.

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

Maximum Working Load
Minimum Break Strength
Average Break Strength

**Specific Gravity: 1.18**