

General Purpose Synthetic Ropes



| Nominal Size (1) | Polypropylene 3 Strand & 8 Braid | | Nylon 3 Strand | | Polyester 3 Strand & 8 Braid | | Manila 3 Strand | | Polypropylene 3 Strand & 8 Braid | |
|------------------|----------------------------------|------------------|-----------------------|------------------|------------------------------|------------------|-----------------------|------------------|----------------------------------|------------------|
| | Linear Density (2) | Minimal Breaking | Linear Density (2) | Minimal Breaking | Linear Density (2) | Minimal Breaking | Linear Density (2) | Minimal Breaking | Linear Density (2) | Minimal Breaking |
| Approx. Dia. | Approx. Lbs. Per 100' | Force (3) Lbs. | Approx. Lbs. Per 100' | Force (3) Lbs. | Approx. Lbs. Per 100' | Force (3) Lbs. | Approx. Lbs. Per 100' | Force (3) Lbs. | Approx. Lbs. Per 100' | Force (3) Lbs. |
| 3/16" | 0.65 | 650 | | | 1.10 | 765 | 1.37 | 405 | | |
| 1/4" | 1.15 | 1,125 | 1.65 | 1,665 | 1.95 | 1,315 | 1.82 | 540 | 1.6 | 1,200 |
| 5/16" | 1.80 | 1,710 | 2.6 | 2,610 | 3.05 | 2,050 | 2.64 | 900 | 2.5 | 1,870 |
| 3/8" | 2.60 | 2,430 | 3.7 | 3,700 | 4.35 | 2,900 | 3.79 | 1,215 | 3.6 | 2,700 |
| 7/16" | 3.50 | 3,150 | 5.1 | 5,050 | 5.9 | 3,915 | 4.87 | 1,575 | 4.8 | 3,500 |
| 1/2" | 4.60 | 3,780 | 6.6 | 6,525 | 7.7 | 5,085 | 6.96 | 2,385 | 6.2 | 4,400 |
| 9/16" | 5.90 | 4,590 | 8.4 | 8,250 | 9.8 | 6,435 | 9.63 | 3,105 | 7.9 | 5,200 |
| 5/8" | 7.20 | 5,580 | 10.4 | 10,200 | 12.0 | 7,825 | 12.7 | 3,960 | 9.5 | 6,100 |
| 3/4" | 10.4 | 7,650 | 15.0 | 14,500 | 17.2 | 11,200 | 15.9 | 4,860 | 13.5 | 8,400 |
| 13/16" | 12.70 | 8,900 | | | | | 18.6 | 5,850 | | |
| 7/8" | 14.2 | 10,350 | 20.4 | 19,500 | 23.4 | 15,225 | 21.4 | 6,930 | 18 | 11,125 |
| 1" | 18.0 | 12,825 | 26.6 | 25,225 | 30.4 | 19,775 | 25.7 | 8,100 | 21.8 | 13,175 |
| 1-1/8" | 22.8 | 16,000 | 33.6 | 31,500 | 38.5 | 24,800 | 34.3 | 10,800 | 27.1 | 16,325 |
| 1-1/4" | 27.6 | 19,350 | 41.5 | 38,700 | 46.5 | 29,800 | 39.7 | 12,150 | 33.4 | 19,900 |
| 1-5/16" | 30.4 | 21,150 | 45.7 | 42,500 | 51 | 32,500 | 45.6 | 13,500 | 36.5 | 21,950 |
| 1-1/2" | 39.4 | 27,350 | 59.7 | 55,000 | 67 | 42,200 | 57.0 | 16,650 | 47.0 | 28,250 |
| 1-5/8" | 46.0 | 31,950 | 70 | 64,400 | 78 | 49,250 | 71.1 | 20,250 | 55 | 32,950 |
| 1-3/4" | 53.0 | 36,900 | 81 | 74,400 | 91 | 57,000 | 85.0 | 23,850 | 62 | 36,850 |
| 2" | 69.0 | 46,800 | 106 | 96,900 | 117 | 72,000 | 102 | 27,900 | 81 | 48,050 |
| 2-1/8" | 78.0 | 52,650 | 120 | 108,900 | 133 | 81,000 | 120 | 32,400 | 91 | 53,950 |
| 2-1/4" | 88.0 | 59,400 | 134 | 121,500 | 149 | 90,500 | 139 | 36,900 | 101 | 59,950 |
| 2-1/2" | 107 | 72,000 | 165 | 149,400 | 184 | 110,000 | 164 | 42,300 | 124 | 73,550 |
| 2-5/8" | 120 | 80,500 | 181 | 163,800 | 203 | 121,000 | 182 | 46,800 | 136 | 80,650 |
| 2-3/4" | 141 | 94,500 | 217 | 193,800 | 243 | 144,000 | 215 | 54,900 | 161 | 95,400 |
| 3" | 153 | 102,600 | 237 | 209,800 | 264 | 156,000 | 230 | 57,500 | 174 | 102,900 |
| 3-1/4" | 186 | 121,500 | 288 | 248,800 | 323 | 188,500 | 284 | 69,500 | 212 | 122,800 |
| 3-1/2" | 223 | 144,000 | 345 | 297,700 | 387 | 225,000 | 349 | 81,900 | 250 | 144,800 |
| 4" | 272 | 171,900 | 420 | 356,400 | 470 | 270,000 | 414 | 94,500 | 300 | 171,000 |
| 4-1/4" | 315 | 198,000 | 488 | 412,200 | 547 | 310,000 | | | 345 | 195,800 |
| 4-1/2" | 360 | 223,200 | 561 | 465,300 | 630 | 355,000 | | | 395 | 224,800 |
| 5" | 420 | 256,500 | 656 | 540,000 | 732 | 410,000 | | | 455 | 254,700 |
| 5-5/16" | 474 | 287,100 | | | 825 | 459,000 | | | 506 | 282,600 |
| 5-5/8" | 531 | 319,500 | 715 | 720,000 | 925 | 508,500 | | | 562 | 312,300 |
| 6" | 603 | 358,200 | 796 | 800,000 | 1,050 | 567,000 | | | 635 | 351,000 |

