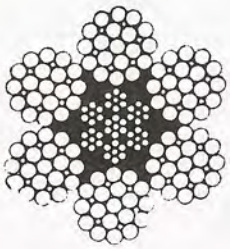
# GENERAL PURPOSE WIRE ROPE

**6 x 19 CLASS**

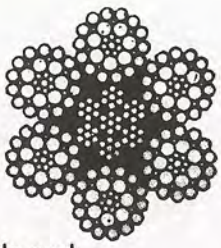
**6 Strands, 15 to 26 wires per strand**



- Draglines
- Hoisting
- Logging
- Rotary drilling
- Excellent balance between fatigue and wear resistance

**6 x 37 CLASS**

**6 Strands, 27 to 49 wires per strand**



- Cranes
- Mining
- Tag lines
- Shovels
- Most flexible and fatigue resistant of wire rope classes

| Rope Diameter | | Nominal Breaking Strength | | | | | | | | | | | | Approx. Weight Per Unit Length | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Double Rainbow Strand | | | | | | Rainbow Strand | | | | | | | | | |
| | | IWRC | | | Fiber Core | | | IWRC | | | Fiber Core | | | IWRC | | Fiber Core | |
| In. | mm | US Tons | Metric Tonnes | kN | US Tons | Metric Tonnes | kN | US Tons | Metric Tonnes | kN | US Tons | Metric Tonnes | kN | LBS/ Ft | kg/ m | Lbs/ Ft | kg/ m |
| 1/4 | 6.5 | 3.40 | 3.08 | 30 | 3.02 | 2.74 | 27 | 2.95 | 2.68 | 26 | 2.74 | 2.48 | 24 | .116 | .17 | .105 | .156 |
| 5/16 | 8.0 | 5.27 | 4.78 | 47 | 4.69 | 4.25 | 42 | 4.58 | 4.15 | 41 | 4.26 | 3.86 | 38 | .18 | .27 | .164 | .244 |
| 3/8 | 9.5 | 7.55 | 6.85 | 67 | 6.71 | 6.09 | 60 | 6.56 | 5.95 | 58 | 6.10 | 5.53 | 54 | .260 | .39 | .236 | .351 |
| 7/16 | 11 | 10.2 | .925 | 91 | 9.09 | 8.24 | 81 | 8.89 | 8.06 | 79 | 8.27 | 7.50 | 74 | .35 | .52 | .32 | .476 |
| 1/2 | 13 | 13.3 | 12.1 | 118 | 11.8 | 10.7 | 105 | 11.5 | 10.4 | 102 | 10.7 | 9.7 | 95 | .46 | .68 | .42 | .625 |
| 9/16 | 14.5 | 16.8 | 15.2 | 149 | 14.9 | 13.5 | 133 | 14.5 | 13.2 | 129 | 13.5 | 12.2 | 120 | .59 | .88 | .53 | .79 |
| 5/8 | 16 | 20.6 | 18.7 | 183 | 18.3 | 16.6 | 163 | 17.9 | 16.2 | 159 | 16.7 | 15.1 | 149 | .72 | 1.07 | .66 | .98 |
| 3/4 | 19 | 29.4 | 26.7 | 262 | 26.2 | 23.8 | 233 | 25.6 | 23.2 | 228 | 23.8 | 21.6 | 212 | 1.04 | 1.55 | .95 | 1.41 |
| 7/8 | 22 | 39.8 | 36.1 | 354 | 35.4 | 32.1 | 315 | 34.6 | 31.4 | 308 | 32.2 | 29.2 | 286 | 1.42 | 2.11 | 1.29 | 1.92 |
| 1 | 26 | 51.7 | 46.9 | 460 | 46.0 | 41.7 | 409 | 44.9 | 40.7 | 399 | 41.8 | 37.9 | 373 | 1.85 | 2.75 | 1.68 | 2.50 |
| 1 1/8 | 29 | 65.0 | 59.0 | 578 | 57.9 | 52.5 | 515 | 56.5 | 51.2 | 503 | 52.6 | 47.7 | 468 | 2.34 | 3.48 | 2.13 | 3.17 |
| 1 1/4 | 32 | 79.9 | 72.5 | 711 | 71.0 | 64.4 | 632 | 69.4 | 62.9 | 617 | 64.6 | 58.6 | 575 | 2.89 | 4.30 | 2.63 | 3.91 |
| 1 3/8 | 35 | 96 | 87.1 | 854 | 85.4 | 77.5 | 760 | 83.5 | 75.7 | 743 | 77.7 | 70.5 | 691 | 3.50 | 5.21 | 3.18 | 4.73 |
| 1 1/2 | 38 | 114 | 103 | 1010 | 101 | 91.6 | 898 | 98.9 | 89.7 | 880 | 92.0 | 83.4 | 818 | 4.16 | 6.19 | 3.78 | 5.62 |
| 1 5/8 | 42 | 132 | 120 | 1170 | 118 | 107 | 1050 | 115 | 104 | 1020 | 107 | 97 | 952 | 4.88 | 7.26 | 4.44 | 6.61 |
| 1 3/4 | 45 | 153 | 139 | 1360 | 136 | 123 | 1210 | 133 | 121 | 1180 | 124 | 112 | 1100 | 5.67 | 8.44 | 5.15 | 7.66 |
| 1 7/8 | 48 | 174 | 158 | 1550 | 155 | 141 | 1380 | 152 | 138 | 1350 | 141 | 128 | 1250 | 6.50 | 9.67 | 5.91 | 8.79 |
| 2 | 51 | 198 | 180 | 1760 | 176 | 160 | 1570 | 172 | 156 | 1530 | 160 | 145 | 1420 | 7.39 | 11.0 | 6.72 | 10.0 |
| 2 1/8 | 54 | 221 | 200 | 1970 | 197 | 179 | 1750 | 192 | 174 | 1710 | 179 | 162 | 1590 | 8.35 | 12.4 | 7.59 | 11.29 |
| 2 1/4 | 57 | 247 | 224 | 2200 | 220 | 200 | 1960 | 215 | 195 | 1910 | 200 | 181 | 1780 | 9.36 | 13.9 | 8.51 | 12.66 |
| 2 3/8 | 61 | 274 | 249 | 2440 | 244 | 221 | 2170 | 239 | 217 | 2120 | 222 | 201 | 1970 | 10.4 | 15.5 | 9.48 | 14.11 |
| 2 1/2 | 64 | 302 | 274 | 2690 | 269 | 244 | 2390 | 262 | 238 | 2330 | 244 | 221 | 2170 | 11.6 | 17.3 | 10.5 | 15.62 |
| 2 5/8 | 67 | 331 | 300 | 2940 | — | — | — | 288 | 261 | 2560 | — | — | — | 12.8 | 19.0 | — | — |
| 2 3/4 | 70 | 361 | 327 | 3210 | — | — | — | 314 | 285 | 2790 | — | — | — | 14.0 | 20.8 | — | — |
| 2 7/8 | 73 | 392 | 356 | 3490 | — | — | — | 341 | 309 | 3030 | — | — | — | 15.3 | 22.8 | — | — |
| 3 | 76 | 425 | 386 | 3780 | — | — | — | 370 | 336 | 3290 | — | — | — | 16.6 | 24.7 | — | — |
| 3 1/8 | 79 | 458 | 415 | 4070 | — | — | — | 399 | 362 | 3550 | 371 | 337 | 3300 | 18.0 | 27.8 | 16.4 | 24.4 |
| 3 1/4 | 83 | 492 | 446 | 4380 | — | — | — | 429 | 389 | 3820 | 399 | 362 | 3550 | 19.5 | 29.0 | 17.7 | 26.3 |
| 3 3/8 | 86 | 529 | 480 | 4700 | — | — | — | 459 | 416 | 4080 | 427 | 387 | 3800 | 21.0 | 31.2 | 19.1 | 28.4 |
| 3 1/2 | 89 | 564 | 512 | 5020 | — | — | — | 491 | 445 | 4370 | 457 | 415 | 4060 | 22.7 | 33.8 | 206 | 30.7 |

Recommended working load not to exceed 1/5 of breaking strength.
Acceptance strength is not less than 2½% below the nominal breaking strength listed.