

NEPTUNE STEEL WIRE ROPE



Products

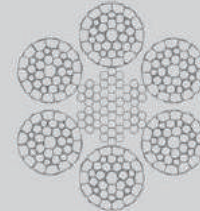
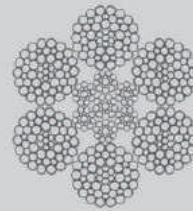
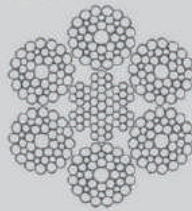
Anchor Lines

Rope construction:
Class 6x36 IWRC and greater.

Large diameter outer wires for optimum
resistance to wear and corrosion.

Wire protection by galvanising or ALUMAR.

Compact strand (CMP) for increased
strength, improved contact area, reduced
tread pressures and sheave wear.



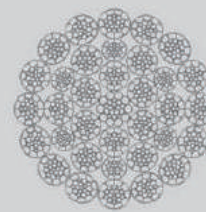
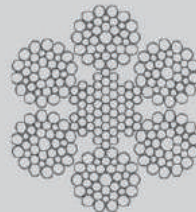
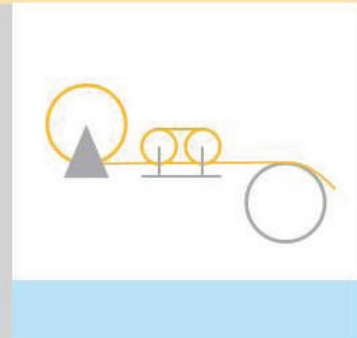
A&R Winch Ropes

Optimum flexibility to allow efficient rope
operation around sheaves, drums and
capstans.

Effective protection of all wires by
galvanising/ALUMAR.

Appropriate lubrication during manufacture.

Rope selection should be determined through
consultation with KISWIRE.



Anchor Lines & A&R Winch Ropes

| Nominal Rope Diameter | | Estimated Rope Mass in air | | EEIPS | | | ALPHA | | | DELTA | | | OMEGA | | |
|--|-----|----------------------------|-------|------------------------|---------------|------------|-------|---------------|------------|-------|---------------|------------|-------|---------------|------------|
| | | | | Minimum Breaking Force | | | | | | | | | | | |
| mm | ins | kg/m | lb/ft | kN | metric tonnes | short tons | kN | metric tonnes | short tons | kN | metric tonnes | short tons | kN | metric tonnes | short tons |
| Neptune Conventional - Large Diameter Six Strand Rope | | | | | | | | | | | | | | | |
| 50.8 | 2 | 11.3 | 7.6 | 1930 | 197 | 217 | 2216 | 226 | 249 | 2285 | 233 | 257 | 2384 | 243 | 268 |
| 54.0 | 2½ | 12.8 | 8.6 | 2160 | 220 | 243 | 2363 | 241 | 266 | 2471 | 252 | 278 | 2578 | 263 | 290 |
| 57.2 | 2¼ | 14.3 | 9.6 | 2420 | 247 | 272 | 2697 | 275 | 303 | 2834 | 289 | 319 | 2957 | 302 | 332 |
| 63.5 | 2½ | 17.8 | 11.9 | 2950 | 301 | 332 | 3295 | 336 | 370 | 3462 | 353 | 389 | 3612 | 369 | 406 |
| 66.7 | 2¾ | 19.7 | 13.2 | 3240 | 330 | 364 | 3629 | 370 | 408 | 3815 | 389 | 429 | 3980 | 406 | 448 |
| 69.9 | 2¾ | 21.4 | 14.4 | 3530 | 360 | 397 | 4011 | 409 | 451 | 4207 | 429 | 473 | 4394 | 448 | 494 |
| 73.0 | 2¾ | 23.5 | 15.8 | 3840 | 392 | 432 | 4384 | 447 | 493 | 4599 | 469 | 517 | 4805 | 490 | 540 |
| 76.2 | 3 | 25.4 | 17.1 | 4170 | 425 | 469 | 4815 | 491 | 541 | 5060 | 516 | 569 | 5276 | 538 | 593 |
| 79.4 | 3¼ | 27.6 | 18.5 | 4490 | 458 | 505 | 5119 | 522 | 575 | 5374 | 548 | 604 | 5610 | 572 | 630 |
| 82.6 | 3¼ | 29.9 | 20.1 | 4840 | 494 | 544 | 5462 | 557 | 614 | 5737 | 585 | 645 | 5992 | 611 | 673 |
| 85.7 | 3¾ | 32.2 | 21.6 | 5180 | 528 | 582 | 5953 | 607 | 669 | 6247 | 637 | 702 | 6531 | 666 | 734 |
| 88.9 | 3½ | 34.8 | 23.4 | 5520 | 563 | 620 | 6463 | 659 | 726 | 6786 | 692 | 763 | 7090 | 723 | 797 |
| 95.3 | 3¾ | 39.9 | 26.8 | 6280 | 640 | 706 | 7002 | 714 | 787 | 7355 | 750 | 827 | 7698 | 785 | 865 |
| 102.0 | 4 | 45.3 | 30.5 | 7060 | 720 | 794 | 7806 | 796 | 877 | 8199 | 836 | 922 | 8554 | 873 | 962 |
| 108.0 | 4¼ | 51.1 | 34.3 | 7730 | 788 | 869 | 8287 | 845 | 931 | 8699 | 887 | 978 | 9076 | 926 | 1021 |
| 114.0 | 4¾ | 57.4 | 38.6 | 8590 | 876 | 966 | 9209 | 939 | 1035 | 9670 | 986 | 1087 | 10089 | 1029 | 1134 |
| 121.0 | 4¾ | 63.9 | 42.9 | 9480 | 967 | 1066 | 10160 | 1036 | 1142 | 10670 | 1088 | 1199 | 11132 | 1136 | 1252 |
| 127.0 | 5 | 70.8 | 47.5 | 10430 | 1064 | 1172 | 11160 | 1138 | 1254 | 11719 | 1195 | 1317 | 12226 | 1248 | 1375 |
| Neptune CMP - Large Diameter Six Strand Rope | | | | | | | | | | | | | | | |
| 50.8 | 2 | 12.1 | 8.1 | 2141 | 218 | 241 | 2458 | 251 | 276 | 2535 | 259 | 285 | 2575 | 263 | 290 |
| 54.0 | 2½ | 13.8 | 9.3 | 2396 | 244 | 269 | 2621 | 267 | 295 | 2741 | 280 | 308 | 2784 | 284 | 313 |
| 57.2 | 2¼ | 15.5 | 10.4 | 2684 | 274 | 302 | 2992 | 305 | 336 | 3144 | 321 | 353 | 3193 | 326 | 359 |
| 63.5 | 2½ | 19.1 | 12.8 | 3272 | 334 | 368 | 3655 | 373 | 411 | 3840 | 392 | 432 | 3901 | 398 | 439 |
| 66.7 | 2¾ | 21.1 | 14.2 | 3594 | 367 | 404 | 4025 | 411 | 453 | 4232 | 432 | 476 | 4299 | 439 | 483 |
| 69.9 | 2¾ | 23.1 | 15.5 | 3916 | 400 | 440 | 4449 | 454 | 500 | 4667 | 476 | 525 | 4742 | 484 | 533 |
| 73.0 | 2¾ | 25.2 | 16.9 | 4260 | 435 | 479 | 4863 | 496 | 547 | 5101 | 521 | 574 | 5186 | 529 | 583 |
| 76.2 | 3 | 27.4 | 18.4 | 4626 | 472 | 520 | 5341 | 545 | 601 | 5613 | 573 | 631 | 5694 | 581 | 640 |
| 79.4 | 3¼ | 29.8 | 20.0 | 4981 | 508 | 560 | 5678 | 579 | 639 | 5961 | 608 | 670 | 6055 | 618 | 681 |
| 82.6 | 3¼ | 32.3 | 21.7 | 5369 | 548 | 604 | 6059 | 618 | 681 | 6364 | 649 | 716 | 6467 | 660 | 727 |
| 85.7 | 3¾ | 34.8 | 23.4 | 5746 | 586 | 646 | 6603 | 674 | 743 | 6929 | 707 | 779 | 7049 | 719 | 793 |
| 88.9 | 3½ | 37.6 | 25.3 | 6123 | 625 | 689 | 7169 | 732 | 806 | 7527 | 768 | 846 | 7652 | 781 | 860 |
| 95.3 | 3¾ | 43.0 | 28.9 | 6966 | 711 | 783 | 7767 | 793 | 873 | 8159 | 833 | 917 | 8308 | 848 | 934 |
| 102.0 | 4 | 48.9 | 32.9 | 7831 | 799 | 881 | 8659 | 884 | 974 | 9095 | 928 | 1023 | 9238 | 943 | 1039 |

*Estimated Rope Mass in Sea Water = 0.87x Rope Mass in Air.
All Ropes manufactured in accordance with API Standards.*

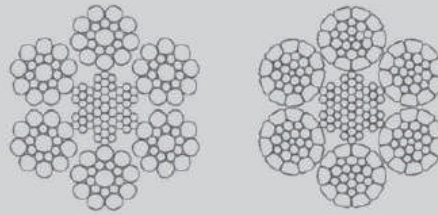
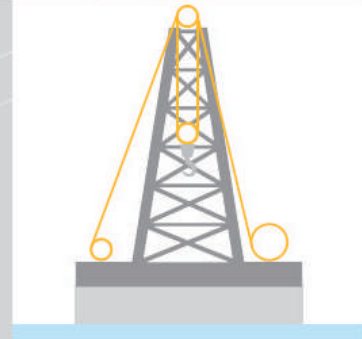
Products

Drilling Lines

Rope construction:
6x19 and 6x26 for constructional stability.

Compacted strand (CMP) provides:

- Improved spooling on the drawworks
- Greater contact area for reduced sheave and groove wear
- High resistance to abrasion and pressure
- Higher strength
- Improved fatigue life

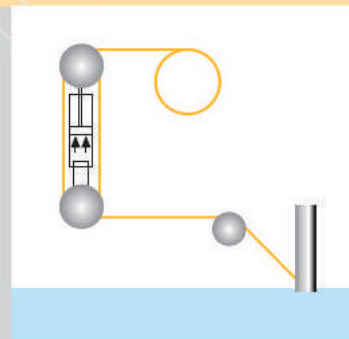


| Nominal Rope Diameter | | Estimated Rope Mass in air | | EIPS | | | EEIPS | | | ALPHA | | |
|---|-------|----------------------------|-------|------------------------|---------------|------------|-------|---------------|------------|-------|---------------|------------|
| mm | ins | kg/m | lb/ft | Minimum Breaking Force | | | | | | | | |
| | | | | kN | metric tonnes | short tons | kN | metric tonnes | short tons | kN | metric tonnes | short tons |
| Neptune Conventional - Class 6x19 Steel Core | | | | | | | | | | | | |
| 25.4 | 1 | 2.8 | 1.91 | 460 | 47 | 52 | 506 | 52 | 57 | 575 | 59 | 65 |
| 28.6 | 1 1/8 | 3.6 | 2.41 | 578 | 59 | 65 | 636 | 65 | 71 | 723 | 74 | 81 |
| 31.8 | 1 1/4 | 4.4 | 2.98 | 711 | 73 | 80 | 782 | 80 | 88 | 889 | 91 | 100 |
| 34.9 | 1 3/8 | 5.3 | 3.59 | 854 | 87 | 96 | 943 | 96 | 106 | 1072 | 109 | 120 |
| 38.1 | 1 1/2 | 6.4 | 4.28 | 1010 | 103 | 114 | 1110 | 113 | 125 | 1259 | 128 | 142 |
| 41.3 | 1 5/8 | 7.5 | 5.03 | 1170 | 119 | 132 | 1300 | 133 | 146 | 1471 | 150 | 165 |
| 44.5 | 1 7/8 | 8.7 | 5.83 | 1360 | 139 | 153 | 1500 | 153 | 169 | 1697 | 173 | 191 |
| 47.6 | 2 | 9.9 | 6.68 | 1550 | 158 | 174 | 1710 | 174 | 192 | 1932 | 197 | 217 |
| 50.8 | 2 1/8 | 11.3 | 7.61 | 1760 | 180 | 198 | 1930 | 197 | 217 | 2216 | 226 | 249 |
| 54.0 | 2 1/4 | 12.8 | 8.59 | 1970 | 201 | 221 | 2160 | 220 | 243 | 2363 | 241 | 266 |
| 57.2 | 2 3/8 | 14.3 | 9.63 | 2200 | 224 | 247 | 2420 | 247 | 272 | 2697 | 275 | 303 |
| 63.5 | 2 1/2 | 17.8 | 11.95 | 2655 | 271 | 298 | 2950 | 301 | 332 | 3295 | 336 | 370 |
| Neptune CMP - Class 6x19 Steel Core | | | | | | | | | | | | |
| 25.4 | 1 | 3.05 | 2.05 | 475 | 48 | 53 | 523 | 53 | 59 | 594 | 61 | 67 |
| 28.6 | 1 1/8 | 3.79 | 2.54 | 597 | 61 | 67 | 657 | 67 | 74 | 747 | 76 | 84 |
| 31.8 | 1 1/4 | 4.85 | 3.25 | 734 | 75 | 83 | 808 | 82 | 91 | 919 | 94 | 103 |
| 34.9 | 1 3/8 | 5.90 | 3.96 | 882 | 90 | 99 | 974 | 99 | 109 | 1108 | 113 | 124 |
| 38.1 | 1 1/2 | 6.64 | 4.45 | 1043 | 106 | 117 | 1147 | 117 | 129 | 1301 | 133 | 146 |
| 41.3 | 1 5/8 | 7.90 | 5.30 | 1211 | 123 | 136 | 1345 | 137 | 151 | 1520 | 155 | 171 |
| 44.5 | 1 7/8 | 9.20 | 6.17 | 1454 | 148 | 163 | 1604 | 164 | 180 | 1812 | 185 | 204 |
| 47.6 | 2 | 10.60 | 7.11 | 1688 | 172 | 190 | 1862 | 190 | 209 | 2104 | 215 | 237 |
| 50.8 | 2 1/8 | 12.10 | 8.12 | 1948 | 199 | 219 | 2136 | 218 | 240 | 2414 | 246 | 271 |
| 54.0 | 2 1/4 | 13.70 | 9.19 | 2206 | 225 | 248 | 2419 | 247 | 272 | 2733 | 279 | 307 |
| 57.2 | 2 3/8 | 15.50 | 10.40 | 2463 | 251 | 277 | 2709 | 276 | 304 | 3061 | 325 | 358 |
| 63.5 | 2 1/2 | 19.10 | 12.82 | 2974 | 303 | 334 | 3304 | 337 | 371 | 3734 | 418 | 461 |

All Ropes manufactured in accordance with API Standards.

Marine Riser Tensioner Lines

Rope construction:
Flexible constructions (6x41 and 6x49) to achieve optimum fatigue life.
Lang's lay to provide improved wear resistance to rope and sheaves.
Corrosion protection by galvanising or ALUMAR.

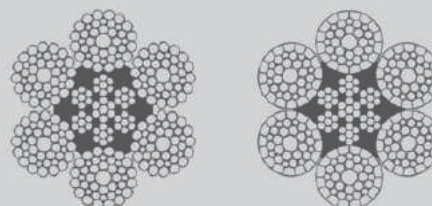


The IWRC can be Plastic impregnated to:

- Protect the inner small wires
- Improve strand support and reduce internal wire stresses

Compact Strand (CMP) offers:

- Greater contact area
- Reduced tread pressures and sheave wear



| Nominal Rope Diameter | | Estimated Rope Mass in air | | EIPS | | | EEIPS | | | ALPHA | | |
|---|-----|----------------------------|-------|------|---------------|------------|------------------------|---------------|------------|-------|---------------|------------|
| mm | ins | kg/m | lb/ft | kN | metric tonnes | short tons | Minimum Breaking Force | | | kN | metric tonnes | short tons |
| | | | | | | | kN | metric tonnes | short tons | | | |
| Neptune Conventional - Class 6x36 Steel Core | | | | | | | | | | | | |
| 44.5 | 1% | 8.7 | 5.83 | 1360 | 138.7 | 153 | 1500 | 153.0 | 169 | 1695 | 173 | 191 |
| 50.8 | 2 | 11.3 | 7.61 | 1760 | 179.5 | 198 | 1930 | 196.9 | 217 | 2216 | 226 | 249 |
| 54.0 | 2% | 12.8 | 8.59 | 1970 | 200.9 | 221 | 2160 | 220.3 | 243 | 2363 | 241 | 266 |
| 57.2 | 2% | 14.3 | 9.63 | 2200 | 224.4 | 247 | 2420 | 246.8 | 272 | 2697 | 275 | 303 |
| 63.5 | 2½ | 17.8 | 11.95 | 2682 | 273.5 | 301 | 2950 | 300.9 | 332 | 3295 | 336 | 370 |
| 66.7 | 2% | 19.6 | 13.18 | 2945 | 300.4 | 331 | 3240 | 330.5 | 364 | 3629 | 370 | 408 |
| 69.9 | 2% | 21.5 | 14.42 | 3209 | 327.3 | 361 | 3530 | 360.0 | 397 | 4011 | 409 | 451 |
| 73.0 | 2% | 23.5 | 15.76 | 3491 | 356.1 | 392 | 3840 | 391.7 | 432 | 4384 | 447 | 493 |
| 76.2 | 3 | 25.4 | 17.10 | 3782 | 385.7 | 425 | 4160 | 424.3 | 468 | 4815 | 491 | 541 |
| Neptune CMP - Class 6x36 Steel Core | | | | | | | | | | | | |
| 44.5 | 1% | 9.2 | 6.0 | 1448 | 147.6 | 163 | 1608 | 164 | 181 | 1812 | 185 | 204 |
| 50.8 | 2 | 12.1 | 7.9 | 1924 | 196.2 | 216 | 2138 | 218 | 240 | 2414 | 246 | 271 |
| 54.0 | 2% | 13.8 | 9.0 | 2180 | 222.3 | 245 | 2422 | 247 | 272 | 2733 | 279 | 307 |
| 57.2 | 2% | 15.5 | 10.1 | 2436 | 248.4 | 274 | 2707 | 276 | 304 | 3061 | 312 | 344 |
| 63.5 | 2½ | 19.1 | 12.4 | 2974 | 303.3 | 334 | 3305 | 337 | 371 | 3734 | 381 | 420 |
| 66.7 | 2% | 21.1 | 13.7 | 3257 | 332.1 | 366 | 3619 | 369 | 407 | 4088 | 417 | 459 |
| 69.9 | 2% | 23.1 | 15.0 | 3548 | 361.8 | 399 | 3942 | 402 | 443 | 4452 | 454 | 500 |
| 73.0 | 2% | 25.2 | 16.4 | 3831 | 390.6 | 430 | 4256 | 434 | 478 | 4814 | 491 | 541 |
| 76.2 | 3 | 27.4 | 17.8 | 4140 | 422.1 | 465 | 4599 | 469 | 517 | 5195 | 530 | 584 |

All Ropes manufactured in accordance with API Standards.

Products

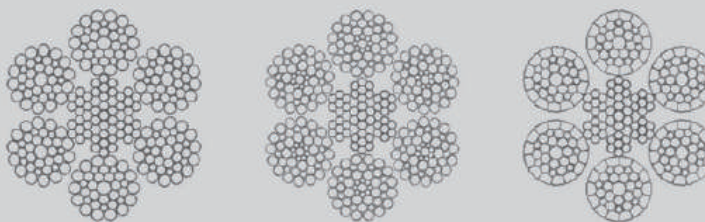
Large Diameter Crane Ropes

Appropriate rope constructions to achieve optimum fatigue life.

Where the expected working life is in excess of 1 year, ALUMAR protection is recommended.

Compact Strand (CMP) offers:

- Higher strength and improved spooling properties
- Greater contact area for reduced sheave wear
- Improved fatigue performance



| Nominal Rope Diameter | | Estimated Rope Mass in air | | EEIPS | | | ALPHA | | | DELTA | | | OMEGA | | |
|--|-----|----------------------------|-------|------------------------|---------------|------------|-------|---------------|------------|-------|---------------|------------|-------|---------------|------------|
| mm | ins | kg/m | lb/ft | Minimum Breaking Force | | | | | | | | | | | |
| | | | | kN | metric tonnes | short tons | kN | metric tonnes | short tons | kN | metric tonnes | short tons | kN | metric tonnes | short tons |
| Neptune Conventional Rope - Class 6x36 Steel Core | | | | | | | | | | | | | | | |
| 41.3 | 1% | 7.5 | 5.0 | 1300 | 133 | 146 | 1469 | 150 | 165 | 1547 | 158 | 174 | 1612 | 164 | 181 |
| 44.5 | 1% | 8.7 | 5.8 | 1500 | 153 | 169 | 1695 | 173 | 191 | 1785 | 182 | 201 | 1860 | 190 | 209 |
| 47.6 | 1% | 9.9 | 6.7 | 1710 | 174 | 192 | 1932 | 197 | 217 | 2035 | 208 | 229 | 2120 | 216 | 238 |
| 50.8 | 2 | 11.3 | 7.6 | 1930 | 197 | 217 | 2216 | 226 | 249 | 2285 | 233 | 257 | 2381 | 243 | 268 |
| 54.0 | 2% | 12.8 | 8.6 | 2160 | 220 | 243 | 2363 | 241 | 266 | 2471 | 252 | 278 | 2575 | 263 | 289 |
| 57.2 | 2% | 14.3 | 9.6 | 2420 | 247 | 272 | 2697 | 275 | 303 | 2834 | 289 | 319 | 2953 | 301 | 332 |
| 63.5 | 2% | 17.8 | 11.9 | 2950 | 301 | 332 | 3295 | 336 | 370 | 3462 | 353 | 389 | 3607 | 368 | 405 |
| 66.7 | 2% | 19.7 | 13.2 | 3240 | 330 | 364 | 3629 | 370 | 408 | 3815 | 389 | 429 | 3975 | 405 | 447 |
| 69.9 | 2% | 21.4 | 14.4 | 3530 | 360 | 397 | 4011 | 409 | 451 | 4207 | 429 | 473 | 4394 | 448 | 494 |
| 73.0 | 2% | 23.5 | 15.8 | 3840 | 392 | 432 | 4384 | 447 | 493 | 4599 | 469 | 517 | 4805 | 490 | 540 |
| 76.2 | 3 | 25.4 | 17.1 | 4170 | 425 | 469 | 4815 | 491 | 541 | 5060 | 516 | 569 | 5276 | 538 | 593 |
| Neptune CMP Rope - Class 6x36 Steel Core | | | | | | | | | | | | | | | |
| 41.3 | 1% | 7.9 | 5.3 | 1345 | 137 | 151 | 1520 | 155 | 171 | 1601 | 163 | 180 | 1668 | 170 | 187 |
| 44.5 | 1% | 9.2 | 6.2 | 1604 | 164 | 181 | 1812 | 185 | 204 | 1909 | 195 | 215 | 1989 | 203 | 224 |
| 47.6 | 1% | 10.6 | 7.1 | 1862 | 190 | 209 | 2104 | 215 | 237 | 2216 | 226 | 249 | 2309 | 235 | 260 |
| 50.8 | 2 | 12.2 | 8.2 | 2136 | 218 | 240 | 2414 | 246 | 271 | 2542 | 259 | 286 | 2649 | 270 | 298 |
| 54.0 | 2% | 13.7 | 9.2 | 2419 | 247 | 272 | 2733 | 279 | 307 | 2878 | 293 | 324 | 2999 | 306 | 337 |
| 57.2 | 2% | 15.5 | 10.4 | 2709 | 276 | 305 | 3061 | 312 | 344 | 3224 | 329 | 362 | 3359 | 343 | 378 |
| 63.5 | 2% | 19.0 | 12.8 | 3304 | 337 | 371 | 3734 | 381 | 420 | 3932 | 401 | 442 | 4097 | 418 | 461 |
| 66.7 | 2% | 21.0 | 14.1 | 3618 | 369 | 407 | 4088 | 417 | 460 | 4306 | 439 | 484 | 4486 | 457 | 504 |
| 69.9 | 2% | 23.1 | 15.5 | 3940 | 402 | 443 | 4452 | 454 | 500 | 4689 | 478 | 527 | 4886 | 498 | 549 |
| 73.0 | 2% | 25.2 | 16.9 | 4260 | 434 | 479 | 4814 | 491 | 541 | 5069 | 517 | 570 | 5282 | 539 | 594 |
| 76.2 | 3 | 27.4 | 18.4 | 4598 | 469 | 517 | 5195 | 530 | 584 | 5471 | 558 | 615 | 5701 | 581 | 641 |

All Ropes manufactured in accordance with API Standards.