



## WIRE ROPE: STEEL, (STAINLESS STEEL) PREFORMED NONROTATING, FOR AIRCRAFT RESCUE HOIST AND CARGO HANDLING (WINCHING) TO MIL-W-83140

This specification covers the requirements for nonrotating, preformed stainless steel wire rope for aircraft rescue hoist and cargo handling winching applications. The wire rope shall be furnished in the following types: Type I, 19 x 7, Nonrotating for aircraft rescue hoist. Type II, 10 x 7, (7 x 19 IWRC) Nonrotating for cargo handling (winching).

### SPECIFICATIONS

| Nominal Diameter Of Wire Rope |      | Construction | Tolerance On Diameter (Plus Only) |      | Allowable Increase Of Diameter |       | Minimum Breaking Strength |          | Approximate Weight Per 1000 Feet |       |
|-------------------------------|------|--------------|-----------------------------------|------|--------------------------------|-------|---------------------------|----------|----------------------------------|-------|
| in                            | mm   |              | in                                | mm   | in                             | mm    | lbs.                      | kg       | lbs.                             | kg    |
| 5/32                          | 3.97 | 19x7         | .008                              | .203 | .017                           | .432  | 2,160                     | 982.0    | 45                               | 20.4  |
| 3/16                          | 4.76 | 19x7         | .009                              | .229 | .019                           | .483  | 3,330                     | 1,514.0  | 65                               | 29.5  |
| 7/32                          | 5.56 | 19x7         | .010                              | .254 | .020                           | .508  | 4,500                     | 2,045.0  | 86                               | 39.0  |
| 7/32                          | 5.56 | 10x7+        | .010                              | .254 | .020                           | .508  | 4,500                     | 2,045.0  | 86                               | 39.0  |
| 1/4                           | 6.35 | 19x7         | .012                              | .305 | .021                           | .533  | 5,760                     | 2,618.0  | 110                              | 50.0  |
| 5/16                          | 7.94 | 19x7         | .016                              | .406 | .024                           | .610  | 8,100                     | 3,682.0  | 173                              | 78.6  |
| 3/8                           | 9.52 | 19x7         | .020                              | .508 | .027                           | .686  | 10,800                    | 4,909.0  | 243                              | 110.0 |
| 1/2                           | 12.7 | 19x7         | .025                              | .635 | .034                           | .864  | 20,520                    | 9,327.0  | 458                              | 208.0 |
| 5/8                           | 15.9 | 19x7         | .030                              | .762 | .040                           | 1.016 | 31,500                    | 14,318.0 | 715                              | 325.0 |

†(7x19IWRC) Type II

### MONEL CABLE

Monel Cable is more resistant to corrosive atmospheres than most commercial metals. Applications for Monel Cable exist when the cable must operate in salt water, citric juices, food acids, alkaline substances, or pickling and acid solutions.

|          |      | 7 x 7     |           | 7 x 19    |           |          | 6 x 42    |           |          |
|----------|------|-----------|-----------|-----------|-----------|----------|-----------|-----------|----------|
| Diameter |      | Breaking  | Weight    | Breaking  | Weight    | Part No. | Breaking  | Weight    | Part No. |
| in       | mm   | Str. Lbs. | Per M/FT. | Str. Lbs. | Per M/FT. |          | Str. Lbs. | Per M/FT. |          |
| 3/64     | 1.2  | 135       | 4.5       |           |           |          |           |           |          |
| 1/16     | 1.6  | 215       | 8.3       |           |           |          |           |           |          |
| 3/32     | 2.5  | 480       | 18        | 480       | 18        | MC 09479 |           |           |          |
| 1/8      | 3.2  | 850       | 31        | 875       | 33        | MC 12579 | 440       | 20        | MC 12564 |
| 5/32     | 4    | 1,350     | 49        | 1,350     | 52        | MC 15679 |           |           |          |
| 3/16     | 5    | 1,900     | 70        | 1,950     | 75        | MC 18879 | 995       | 45        | MC 18864 |
| 7/32     | 5.5  | 2,600     | 95        | 2,650     | 105       | MC 21979 |           |           |          |
| 1/4      | 6.5  | 3,400     | 125       | 3,500     | 135       | MC 25079 | 1,750     | 80        | MC 25064 |
| 9/32     | 7.5  | 4,300     | 158       | 4,400     | 170       | MC 28179 |           |           |          |
| 5/16     | 8    | 5,300     | 195       | 5,450     | 210       | MC 31379 | 2,750     | 120       | MC 31364 |
| 3/8      | 9.5  | 7,650     | 280       | 7,850     | 300       | MC 37579 | 3,950     | 175       | MC 37564 |
| 7/16     | 11   | 10,400    | 360       | 10,700    | 385       | MC 43879 | 5,400     | 225       | MC 43864 |
| 1/2      | 12.7 | 13,600    | 475       | 13,950    | 505       | MC 50079 | 7,050     | 300       | MC 50064 |
| 9/16     | 14.3 | 17,200    | 595       | 17,650    | 635       | MC 56379 | 8,950     | 360       | MC 56364 |
| 5/8      | 15.9 | 20,600    | 735       | 21,800    | 785       | MC 62579 | 11,000    | 444       | MC 62564 |
| 3/4      | 19.1 | 29,650    | 1,060     | 31,400    | 1,130     | MC 75079 |           |           |          |