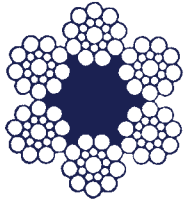


# Wire Rope

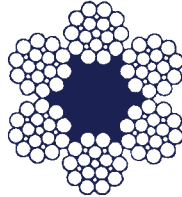


## Wire Rope

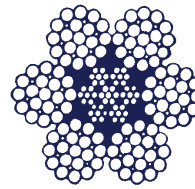
"GOLD STRAND"



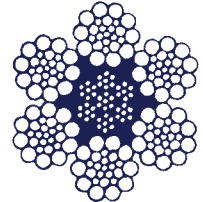
6 x 19 SEALE



6 x 21 FILLER WIRE



6 x 25 FILLER WIRE  
IWRC



6 x 26  
WARRINGTON-SEALE  
EIPS

### NOMINAL STRENGTHS OF WIRE ROPE

6 x 19 Classification/Bright (Uncoated), or Drawn-Galvanized, Fiber Core, EIPS

| Nom. Diam.<br><br>Inches | Nominal Strength | Approx. Mass<br><br>Lb/Ft |
|--------------------------|------------------|---------------------------|
|                          | EIPS<br>Tons     |                           |
| 1/4                      | 3.02             | 0.11                      |
| 5/16                     | 4.69             | 0.16                      |
| 3/8                      | 6.72             | 0.24                      |
| 7/16                     | 9.10             | 0.32                      |
| 1/2                      | 11.8             | 0.42                      |
| 9/16                     | 14.9             | 0.53                      |
| 5/8                      | 18.3             | 0.66                      |
| 3/4                      | 26.2             | 0.95                      |
| 7/8                      | 35.4             | 1.29                      |
| 1                        | 46.0             | 1.68                      |
| 1 1/8                    | 57.8             | 2.13                      |
| 1 1/4                    | 71.1             | 2.63                      |
| 1 3/8                    | 85.5             | 3.18                      |
| 1 1/2                    | 101              | 3.78                      |
| 1 5/8                    | 118              | 4.44                      |
| 1 3/4                    | 137              | 5.15                      |
| 1 7/8                    | 156              | 5.91                      |
| 2                        | 176              | 6.72                      |
| 2 1/8                    | 197              | 7.59                      |
| 2 1/4                    | 220              | 8.51                      |

6 x 19 Classification/Bright (Uncoated), or Drawn-Galvanized, IWRC, EIPS

| Nom. Diam.<br><br>Inches | Nominal Strength | Approx. Mass<br><br>Lb/Ft |
|--------------------------|------------------|---------------------------|
|                          | EIPS<br>Tons     |                           |
| 1/4                      | 3.40             | 0.12                      |
| 5/16                     | 5.27             | 0.18                      |
| 3/8                      | 7.55             | 0.26                      |
| 7/16                     | 10.2             | 0.35                      |
| 1/2                      | 13.3             | 0.46                      |
| 9/16                     | 16.8             | 0.59                      |
| 5/8                      | 20.6             | 0.72                      |
| 3/4                      | 29.4             | 1.04                      |
| 7/8                      | 39.8             | 1.42                      |
| 1                        | 51.7             | 1.85                      |
| 1 1/8                    | 65.0             | 2.34                      |
| 1 1/4                    | 79.9             | 2.89                      |
| 1 3/8                    | 96.0             | 3.50                      |
| 1 1/2                    | 114              | 4.16                      |
| 1 5/8                    | 132              | 4.88                      |
| 1 3/4                    | 153              | 5.67                      |
| 1 7/8                    | 174              | 6.50                      |
| 2                        | 198              | 7.39                      |
| 2 1/8                    | 221              | 8.35                      |
| 2 1/4                    | 247              | 9.36                      |
| 2 3/8                    | 274              | 10.4                      |
| 2 1/2                    | 302              | 11.6                      |
| 2 5/8                    | 331              | 12.8                      |
| 2 3/4                    | 361              | 14.0                      |

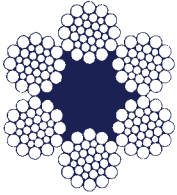
(Meets or exceeds federal specification RR-W-410 [latest revision].)



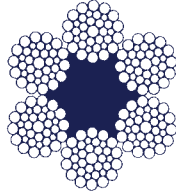
## Wire Rope

"GOLD STRAND"

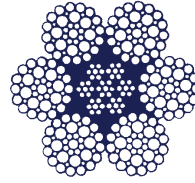
1



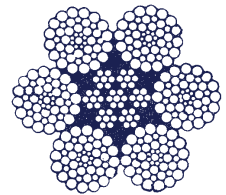
6 x 31  
WARRINGTON SEALE



6 x 36  
WARRINGTON SEALE



6 x 41 SFW  
SEALE FILLER WIRE  
IWRC



6 x 49 SWS  
SEALE WARRINGTON  
IWRC

### NOMINAL STRENGTHS OF WIRE ROPE

6 x 36 Classification/Bright (Uncoated), or Drawn-Galvanized, Fiber Core, EIPS

| Nom. Diam. | Nominal Strength | Approx. Mass |
|------------|------------------|--------------|
| Inches     | EIPS             | Lb/Ft        |
|            | Tons             |              |
| 1/4        | 3.02             | 0.11         |
| 5/16       | 4.69             | 0.16         |
| 3/8        | 6.72             | 0.24         |
| 7/16       | 9.10             | 0.32         |
| 1/2        | 11.8             | 0.42         |
| 9/16       | 14.9             | 0.53         |
| 5/8        | 18.3             | 0.66         |
| 3/4        | 26.2             | 0.95         |
| 7/8        | 35.4             | 1.29         |
| 1          | 46.0             | 1.68         |
| 1 1/8      | 57.8             | 2.13         |
| 1 1/4      | 71.1             | 2.63         |
| 1 3/8      | 85.5             | 3.18         |
| 1 1/2      | 101              | 3.78         |
| 1 5/8      | 118              | 4.44         |
| 1 3/4      | 137              | 5.15         |
| 1 7/8      | 156              | 5.91         |
| 2          | 176              | 6.72         |
| 2 1/8      | 197              | 7.59         |
| 2 1/4      | 220              | 8.51         |

6 x 36 Classification/Bright (Uncoated), or Drawn-Galvanized, IWRC, EIPS

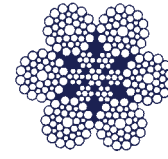
| Nom. Diam. | Nominal Strength | Approx. Mass |
|------------|------------------|--------------|
| Inches     | EIPS             | Lb/Ft        |
|            | Tons             |              |
| 1/4        | 3.40             | 0.12         |
| 5/16       | 5.27             | 0.18         |
| 3/8        | 7.55             | 0.26         |
| 7/16       | 10.2             | 0.35         |
| 1/2        | 13.3             | 0.46         |
| 9/16       | 16.8             | 0.59         |
| 5/8        | 20.6             | 0.72         |
| 3/4        | 29.4             | 1.04         |
| 7/8        | 39.8             | 1.42         |
| 1          | 51.7             | 1.85         |
| 1 1/8      | 65.0             | 2.34         |
| 1 1/4      | 79.9             | 2.89         |
| 1 3/8      | 96.0             | 3.50         |
| 1 1/2      | 114              | 4.16         |
| 1 5/8      | 132              | 4.88         |
| 1 3/4      | 153              | 5.67         |
| 1 7/8      | 174              | 6.50         |
| 2          | 198              | 7.39         |
| 2 1/8      | 221              | 8.35         |
| 2 1/4      | 247              | 9.36         |
| 2 3/8      | 274              | 10.4         |
| 2 1/2      | 302              | 11.6         |
| 2 5/8      | 331              | 12.8         |
| 2 3/4      | 361              | 14.0         |
| 2 7/8      | 392              | 15.3         |
| 3          | 425              | 16.6         |
| 3 1/8      | 458              | 18.0         |
| 3 1/4      | 492              | 19.5         |
| 3 3/8      | 529              | 21.0         |
| 3 1/2      | 564              | 22.7         |
| 3 5/8      | 602              | 24.3         |
| 3 3/4      | 641              | 26.0         |

Meets or exceeds federal specification RR-W-410 (latest revision).

# Wire Rope

## LARGE DIAMETER, HIGH STRENGTH

“GOLD STRAND”



6 X 36  
WARRINGTON-SEALE

### Specifications per API 9A

6 x 36 Classification Wire Rope Bright (Uncoated) or Drawn-Galvanized Wire, Independent Wire Rope Core (IWRC)

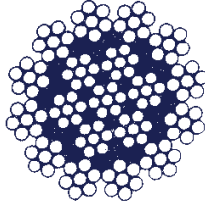
| Nominal Rope Diameter |         | Diameter Range |         | Approximate Length Mass |         | Minimum Breaking Force |              |
|-----------------------|---------|----------------|---------|-------------------------|---------|------------------------|--------------|
| mm                    | (in)    | min mm         | max. mm | kg/100 m                | (lb/ft) | kN                     | (short tons) |
| 63,5                  | (2 1/2) | 63,5           | 66,7    | 1,730                   | (11.6)  | 2,950                  | (332)        |
| 66,7                  | (2 5/8) | 66,7           | 70,0    | 1,910                   | (12.8)  | 3,240                  | (364)        |
| 69,9                  | (2 3/4) | 69,9           | 73,4    | 2,080                   | (14.0)  | 3,530                  | (397)        |
| 73,0                  | (2 7/8) | 73,0           | 76,7    | 2,280                   | (15.3)  | 3,840                  | (432)        |
| 76,2                  | (3)     | 76,2           | 80,0    | 2,470                   | (16.6)  | 4,160                  | (468)        |
| 79,4                  | (3 1/8) | 79,4           | 83,4    | 2,680                   | (18.0)  | 4,490                  | (505)        |
| 82,6                  | (3 1/4) | 82,6           | 86,7    | 2,900                   | (19.5)  | 4,830                  | (543)        |
| 85,7                  | (3 3/8) | 85,7           | 90,0    | 3,130                   | (21.0)  | 5,180                  | (582)        |
| 88,9                  | (3 1/2) | 88,9           | 93,3    | 3,380                   | (22.7)  | 5,520                  | (621)        |
| 95,3                  | (3 3/4) | 95,3           | 100     | 3,870                   | (26.0)  | 6,270                  | (705)        |
| 102                   | (4)     | 102            | 107     | 4,400                   | (44.0)  | 6,340                  | (713)        |
| 108                   | (4 1/4) | 108            | 113     | 4,960                   | (49.6)  | 7,110                  | (799)        |
| 114                   | (4 1/2) | 114            | 120     | 5,570                   | (55.7)  | 7,900                  | (888)        |
| 121                   | (4 3/4) | 121            | 127     | 6,200                   | (62.1)  | 8,730                  | (981)        |
| 127                   | (5)     | 127            | 133     | 6,870                   | (68.8)  | 9,590                  | (1,078)      |
| 133                   | (5 1/4) | 133            | 140     | 7,410                   | (49.8)  | 9,960                  | (1,120)      |
| 140                   | (5 1/2) | 140            | 147     | 8,110                   | (54.5)  | 10,800                 | (1,219)      |
| 146                   | (5 3/4) | 146            | 153     | 8,870                   | (59.6)  | 11,700                 | (1,320)      |
| 152                   | (6)     | 152            | 160     | 9,680                   | (65.0)  | 12,700                 | (1,426)      |

EEEIPS & HIGHER GRADES - AVAILABLE ON SPECIAL ORDER.

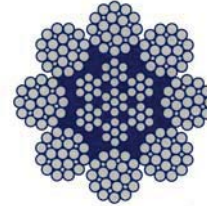
# Wire Rope

1

## ROTATION RESISTANT TYPES



19 X 7 CLASS



8 X 19 CLASS

19 x 7 Classification/Bright (Uncoated) or Drawn-Galvanized Wire Strand Core

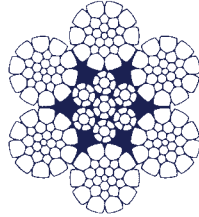
| Nominal Diam. (In.) | Nominal Strength Tons | Approx. Mass Lb/Ft |
|---------------------|-----------------------|--------------------|
| 1/4                 | 2.77                  | 0.113              |
| 5/16                | 4.30                  | 0.175              |
| 3/8                 | 6.15                  | 0.25               |
| 7/16                | 8.33                  | 0.35               |
| 1/2                 | 10.80                 | 0.45               |
| 9/16                | 13.60                 | 0.58               |
| 5/8                 | 16.80                 | 0.71               |
| 3/4                 | 24.00                 | 1.02               |
| 7/8                 | 32.50                 | 1.39               |
| 1                   | 42.20                 | 1.82               |
| 1 1/8               | 53.10                 | 2.30               |
| 1 1/4               | 65.10                 | 2.84               |

8 x 19 Classification/Bright (Uncoated), or Drawn-Galvanized, IWRC (EIPS)

| Nominal Diam. (In.) | Nominal Strength Tons | Approx. Mass Lb/Ft |
|---------------------|-----------------------|--------------------|
| 1/2                 | 11.6                  | .47                |
| 9/16                | 14.7                  | .60                |
| 5/8                 | 18.1                  | .73                |
| 3/4                 | 25.9                  | 1.06               |
| 7/8                 | 35.0                  | 1.44               |
| 1                   | 45.5                  | 1.88               |

Meets or exceeds applicable API-9A and federal specification RR-W-410 (latest revision).

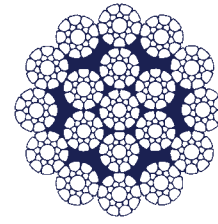
## Wire Rope COMPACTED STRAND



6 x 26



WIRE ROPE



19 X 19 & 18 X 19  
Rotation Resistant

- Mining, industrial, construction, logging, and oilfield applications.
- Stability, strength, fatigue resistance, and abrasion resistance.
- All popular sizes.
- Longer service life.

Extra value means different things in different applications. In applications where increased strength, stability, and abrasion resistance are beneficial. 6-strand compacted ropes are a natural and can result in longer service life. From boom hoist ropes and drag ropes in mining applications, to sawmill carriage ropes and mainline ropes in logging, their versatility and extra value make a difference.

- As single-part hoist lines and wherever spooling problems, drum crushing, bird caging, block twisting and fast line speeds are likely to be encountered.
- At the design and specification stage, ideal when machinery space and weight savings are important.
- Greater fatigue resistance cuts rope expense in applications where fatigue is the primary cause for removal.
- Ideally suited to rugged applications.

This rotation resistant, higher strength rope provides extra value in both original equipment designs and replacement applications. 18 and 19 strand compacted wire rope, provides higher strength in a smaller diameter, and resistance to drum crushing.

| Nominal Diameter In. | 6 Strand Compacted Bright |                      | **19 X 19 and 18 X 19 Compacted Strand Rotation Resistant |                      |
|----------------------|---------------------------|----------------------|---|----------------------|
|                      | Minimum Breaking Load     | Approx. Mass (LB/FT) | Minimum Breaking Load                                     | Approx. Mass (LB/FT) |
| 3/8                  | 8.30                      | .31                  | 8.30  | .31                  |
| 7/16                 | 11.2                      | .39                  | 11.2  | .40                  |
| 1/2                  | 14.6                      | .49                  | 14.6  | .54                  |
| 9/16                 | 18.5                      | .63                  | 18.5  | .69                  |
| 5/8                  | 22.7                      | .78                  | 22.7  | .85                  |
| 3/4                  | 32.4                      | 1.13                 | 32.4  | 1.25                 |
| 7/8                  | 43.8                      | 1.54                 | 43.8  | 1.68                 |
| 1                    | 56.9                      | 2.00                 | 56.9  | 2.17                 |
| 1 1/8                | 71.5                      | 2.54                 | 71.5  | 2.75                 |
| 1 1/4                | 87.9                      | 3.14                 | 87.9  | 3.45                 |
| 1 3/8                | 106                       | 3.80                 | 106   | 4.33                 |
| 1 1/2                | 125                       | 4.50                 | 125   | 5.11                 |

Breaking loads listed are the minimum established by the Wire Rope Technical Board. Verify the breaking load when inquiring as actual inventories may have different breaking loads.

\*\* The given strengths for 19 strand rotation resistant wire ropes are applicable only when a test is conducted on a new rope fixed at both ends. When the rope is in use and one end is free to rotate, the nominal strength is reduced.

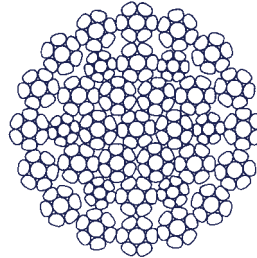
Not recommended for use with swivels.



## Metric Crane Ropes

1

- \* Also available in imperial diameters
- \* Rotation Resistant
- \* Can be used with in-line Swivels
- \* 2160 Grade Tensile
- \* Drawn Galvanized available, for added corrosion protection.
- \* Compacted Strand.



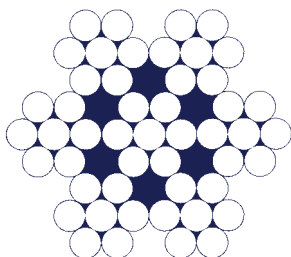
Compacted Strand  
35 X 7 Class

### 2160 GRADE

| Nominal Diameter<br>mm-1/+4% | Mass<br>(Lbs/Ft) | Estimated<br>Break Strength<br>(Lbs) |
|------------------------------|------------------|--------------------------------------|
| 10                           | 0.312            | 21,430                               |
| 12                           | 0.450            | 30,780                               |
| 13                           | 0.538            | 36,180                               |
| 14                           | 0.622            | 43,820                               |
| 15                           | 0.712            | 50,300                               |
| 16                           | 0.800            | 57,300                               |
| 17                           | 0.907            | 64,720                               |
| 18                           | 1.011            | 72,580                               |
| 19                           | 1.136            | 80,900                               |
| 20                           | 1.297            | 89,440                               |
| 21                           | 1.431            | 98,650                               |
| 22                           | 1.556            | 108,310                              |
| 23                           | 1.699            | 118,430                              |
| 24                           | 1.848            | 128,990                              |
| 25                           | 2.009            | 132,140                              |
| 25.4                         | 2.100            | 136,000                              |
| 26                           | 2.157            | 142,700                              |
| 28                           | 2.553            | 165,620                              |
| 29                           | 2.688            | 177,530                              |
| 30                           | 2.923            | 183,370                              |
| 32                           | 3.313            | 208,540                              |
| 34                           | 3.736            | 236,000                              |
| 36                           | 4.193            | 263,000                              |

Estimated breaking strength shown. **Call for available diameters & breaking strengths.**

## Galvanized and Stainless Steel Cables

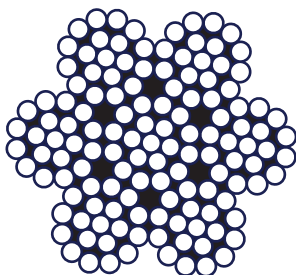


7 X 7

### GALVANIZED

| Diameter in Inches | Construction | Breaking Strength (lbs) | Approx. Weight per Foot (lbs) |
|--------------------|--------------|-------------------------|-------------------------------|
| 1/16               | 7x7          | 480                     | .0075                         |
| 3/32               | 7x7          | 920                     | .016                          |
| 1/8                | 7x7          | 1,700                   | .028                          |
| 1/8                | 7x19         | 2,000                   | .029                          |
| 5/32               | 7x7          | 2,600                   | .043                          |
| 5/32               | 7x19         | 2,800                   | .045                          |
| 3/16               | 7x7          | 3,700                   | .062                          |
| 3/16               | 7x19         | 4,200                   | .065                          |
| 7/32               | 7x19         | 5,600                   | .086                          |
| 1/4                | 7x7          | 6,100                   | .106                          |
| 1/4                | 7x19         | 7,000                   | .11                           |
| 5/16               | 7x19         | 9,800                   | .173                          |
| 3/8                | 7x19         | 14,400                  | .243                          |

### STAINLESS STEEL (T304)



7 X 19

| Diameter in Inches | Construction | Breaking Strength (lbs) | Approx. Weight per Foot (lbs) |
|--------------------|--------------|-------------------------|-------------------------------|
| 1/16               | 7x7          | 480                     | .075                          |
| 3/32               | 7x7          | 920                     | .016                          |
| 1/8                | 7x7          | 1,760                   | .028                          |
| 1/8                | 7x19         | 1,760                   | .029                          |
| 3/16               | 7x7          | 3,700                   | .062                          |
| 3/16               | 7x19         | 3,700                   | .065                          |
| 1/4                | 7x19         | 6,400                   | .11                           |
| 5/16               | 7x19         | 9,000                   | .173                          |
| 3/8                | 7x19         | 12,000                  | .243                          |

### STAINLESS STEEL (T316)

| Diameter in Inches | Construction | Breaking Strength (lbs) | Approx. Weight per Foot (lbs) |
|--------------------|--------------|-------------------------|-------------------------------|
| 1/16               | 7x7          | 480                     | .0075                         |
| 1/8                | 7x19         | 1,670                   | .029                          |
| 3/16               | 7x19         | 3,565                   | .065                          |
| 1/4                | 7x19         | 5,875                   | .11                           |
| 5/16               | 7x19         | 8,825                   | .173                          |
| 3/8                | 7x19         | 11,760                  | .243                          |

Meets or exceeds applicable federal specification RR-W-410 (latest revision).

Uncoated cable meets dimensional and strength requirements of

MIL-W-83420, aircraft cable.

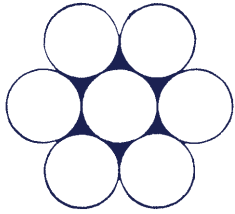
Cables in strict compliance with MIL-W-83420 available upon request.





## GALVANIZED STEEL STRAND - 1 X 7

ASTM A475, CLASS A COATING,  
LEFT REGULAR LAY, EXTRA HIGH STRENGTH\*\*



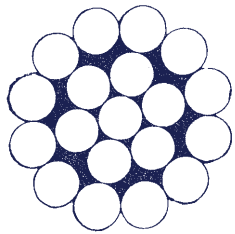
1x7 Strand

| Diameter Inches | Nominal Breaking Strength (Tons) | Approx. Weight Per Foot (lbs) |
|-----------------|----------------------------------|-------------------------------|
| 3/16            | 1.99                             | .073                          |
| 1/4             | 3.32                             | .120                          |
| 5/16            | 5.60                             | .225                          |
| 3/8             | 7.70                             | .273                          |
| 7/16            | 10.70                            | .399                          |
| 1/2             | 13.45                            | .517                          |
| 9/16            | 19.50                            | .637                          |
| 5/8             | 21.20                            | .796                          |

AVAILABLE IN DOMESTIC OR IMPORTED  
\*\*OTHER GRADES ALSO AVAILABLE

## GALVANIZED STEEL STRAND - 1 X 19

ASTM A475, CLASS A COATING,  
LEFT REGULAR LAY, EXTRA HIGH STRENGTH



1x19 Strand

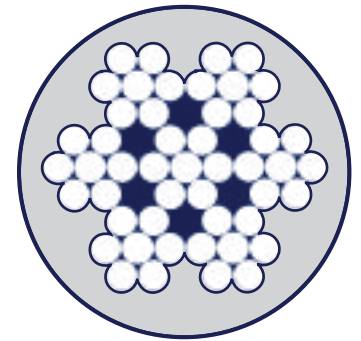
| Diameter Inches | Nominal Breaking Strength (Tons) | Approx. Weight Per Foot (lbs) |
|-----------------|----------------------------------|-------------------------------|
| 3/4             | 29.15                            | 1.16                          |
| 7/8             | 39.85                            | 1.58                          |
| 1               | 52.25                            | 2.07                          |

AVAILABLE IN DOMESTIC OR IMPORTED  
ASTM A586 & A603 ALSO AVAILABLE  
STAINLESS STEEL STRAND ALSO AVAILABLE

# Galvanized and Stainless Steel Coated Cables

## GALVANIZED, CLEAR VINYL COATED - 7 X 7 & 7 X 19

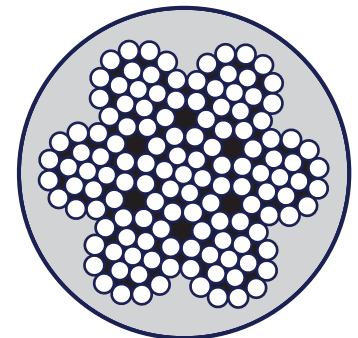
| Diameter (In) | Coated To (In) | Weight per foot (lbs) | Breaking Strength (lbs) | Construction |
|---------------|----------------|-----------------------|-------------------------|--------------|
| 1/16          | 3/32           | .0093                 | 480                     | 7x7          |
| 1/16          | 1/8            | .012                  | 480                     | 7x7          |
| 3/32          | 1/8            | .018                  | 920                     | 7x7          |
| 3/32          | 3/16           | .026                  | 920                     | 7x7          |
| 1/8           | 3/16           | .035                  | 1,700                   | 7x7          |
| 3/32          | 1/8            | .019                  | 1,000                   | 7x19         |
| 1/8           | 3/16           | .036                  | 2,000                   | 7x19         |
| 3/16          | 1/4            | .077                  | 4,200                   | 7X19         |
| 3/16          | 5/16           | .08                   | 4,200                   | 7X19         |
| 1/4           | 5/16           | .12                   | 7,000                   | 7X19         |
| 5/16          | 3/8            | .20                   | 9,800                   | 7X19         |
| 3/8           | 7/16           | .27                   | 14,400                  | 7X19         |



7 X 7

## TYPE 304 STAINLESS STEEL, VINYL COATED - 7 X 19

| Diameter (In) | Coated To (In) | Weight per foot (lbs) | Breaking Strength (lbs) | Construction |
|---------------|----------------|-----------------------|-------------------------|--------------|
| 1/8           | 3/16           | .036                  | 1,760                   | 7x19         |
| 3/16          | 1/4            | .077                  | 3,700                   | 7x19         |
| 1/4           | 5/16           | .128                  | 6,400                   | 7x19         |
| 5/16          | 3/8            | .20                   | 9,000                   | 7x19         |
| 3/8           | 7/16           | .27                   | 12,000                  | 7x19         |



7 X 19

OTHER FINISHED DIAMETERS ALSO AVAILABLE  
 AVAILABLE IN CLEAR AND COLOR COATINGS  
 MEETS OR EXCEEDS FEDERAL SPECIFICATION RR-W-410 (latest revision)