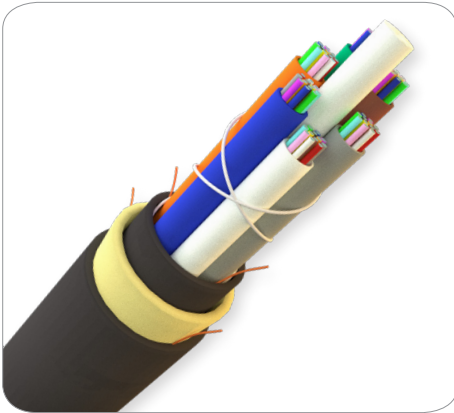




## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

AFL-ADSS® (All-Dielectric Self-Supporting) fiber optic cable is designed for outside plant aerial transmission and distribution environments. As its name indicates, there are no metallic components and the cable does not require a support or messenger wire. These attributes allow the cable to be installed live-line and in the power space of distribution lines.

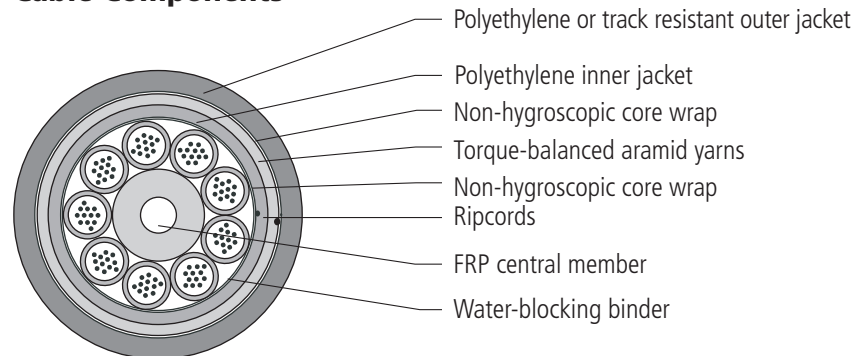
### Features

- Up to 432 fibers in cable
- Designs listed below for span lengths up to 1500 ft (457 m), custom designs available for longer span lengths
- Double jacket designs provide additional protection to the fibers for longer span lengths and higher strength requirements
- Track-resistant outer jacket available for high voltage transmission lines for space potential values up to 25 kV
- Gel-filled tubes are reverse-oscillated (SZ stranded) to allow slack for mid-span access

### Applications

- Electric utility transmission and distribution power lines
  - Typically framed under conductors
- Underground duct
- Enterprise OSP networks
- Fiber-to-the-X networks

### Cable Components



### Quote Request Information

**NOTE:** The designs listed are only a sampling of the options available from AFL. Contact customer service for a cable designed to your exact specifications.

| A | XXX                                | XXXX                      | X                      | X                                    | X                                                                                                                                                                                                                                                                | X                                   |
|---|------------------------------------|---------------------------|------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|   | <b>Fiber Count</b>                 | <b>Span Length</b>        | <b>Unit of Measure</b> | <b>NESC Loading Condition</b>        | <b>Fiber Code</b>                                                                                                                                                                                                                                                | <b>Line Voltage</b>                 |
|   | 002 = 2 fibers<br>432 = 432 fibers | 0100 = 100<br>1500 = 1500 | F = Feet<br>M = Meters | L = Light<br>M = Medium<br>H = Heavy | 6 = 62.5/125 GIGA-Link™ 300<br>8 = 62.5/125 GIGA-Link™ 1000<br>5 = 50/125 GIGA-Link™ 600<br>7 = 50/125 GIGA-Link™ 2000<br>L = 50 Laser-Link™ 300<br>9 = Single-mode<br>Q = Non-zero Dispersion-shifted Single-mode<br>K = SM Futureguide SR-15e Bend Insensitive | A = Less than 115 kV<br>B = ≥115 kV |

*continued*  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

### Optical Information

| FIBER TYPE                                  | MAXIMUM ATTENUATION<br>(dB/km) |         |         |         | OVERFILL LAUNCH MIN.<br>BANDWIDTH (MHz•km) |         | GIGABIT ETHERNET<br>MINIMUM<br>LINK DISTANCE (meters) |         |
|---------------------------------------------|--------------------------------|---------|---------|---------|--------------------------------------------|---------|-------------------------------------------------------|---------|
|                                             | 850 nm                         | 1300 nm | 1310 nm | 1550 nm | 850 nm                                     | 1300 nm | 850 nm                                                | 1300 nm |
| (6) 62.5/125 GIGA-Link™ 300                 | 3.5                            | 1.2     | N/A     | N/A     | 200                                        | 600     | 300                                                   | 550     |
| (8) 62.5/125 GIGA-Link™ 1000                | 3.5                            | 1.2     | N/A     | N/A     | 350                                        | 600     | 500                                                   | 1000    |
| (5) 50/125 GIGA-Link™ 600                   | 2.9                            | 0.9     | N/A     | N/A     | 500                                        | 500     | 600                                                   | 600     |
| (7) 50/125 GIGA-Link™ 2000                  | 2.9                            | 0.9     | N/A     | N/A     | 500                                        | 800     | 750                                                   | 2000    |
| (L) 50 Laser-Link™ 300                      | 3.5                            | 1.2     | N/A     | N/A     | 1500                                       | 500     | 900                                                   | 550     |
| (9) Single-mode                             | N/A                            | N/A     | 0.35    | 0.25    | N/A                                        | N/A     | N/A                                                   | 5000    |
| (Q) Non-zero Dispersion-shifted Single-mode | N/A                            | N/A     | N/A     | 0.25    | N/A                                        | N/A     | N/A                                                   | N/A     |
| (K) SM Futureguide SR-15e Bend Insensitive  | N/A                            | N/A     | 0.35    | 0.25    | N/A                                        | N/A     | N/A                                                   | 5000    |

Gigabit Ethernet Minimum Link Distances are based on "bandwidth"/modal dispersion constraints.  
Actual link distances may be constrained by attenuation, depending on specific loss budget.

### Reel Information

| ITEM                        | REEL A  |       | REEL B  |        | REEL C  |        | REEL D  |        | REEL E  |        |
|-----------------------------|---------|-------|---------|--------|---------|--------|---------|--------|---------|--------|
|                             | INCHES  | CM    | INCHES  | CM     | INCHES  | CM     | INCHES  | CM     | INCHES  | CM     |
| Reel Height                 | 42      | 106.7 | 58      | 147.3  | 66      | 167.6  | 72      | 167.6  | 84      | 213.4  |
| Reel Width Outside          | 36      | 91.4  | 38      | 96.5   | 42      | 106.7  | 42      | 106.7  | 40      | 101.6  |
| Reel Width Inside           | 32      | 81.6  | 32      | 81.3   | 36      | 91.4   | 36      | 91.4   | 34      | 86.4   |
| Drum Diameter               | 23      | 58.7  | 28      | 71.1   | 36      | 91.4   | 36      | 91.4   | 35      | 88.9   |
| Arbor Hole Diameter         | 3       | 7.9   | 3       | 7.9    | 3       | 7.9    | 3       | 7.9    | 3       | 7.9    |
| Reel Weight with<br>Lagging | 180 lbs | 82 kg | 420 lbs | 191 kg | 685 lbs | 311 kg | 710 lbs | 311 kg | 950 lbs | 431 kg |

AFL provides ADSS cable on several standard sizes of non-returnable wooden reels. Non-standard reel sizes are available upon request.

### Recommended Products for ADSS Fiber Optic Cable

| DESCRIPTION                               | AFL NO.                                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Fiber Optic Cable Accessories</b>      |                                                                                                        |
| ADSS Wedge Deadend                        | Refer to the <a href="#">ADSS Wedge Deadend spec sheet</a> for specific AFL No.                        |
| ADSS Suspension Unit                      | Refer to the <a href="#">ADSS Suspension Unit spec sheet</a> for specific AFL No.                      |
| ADSS Trunnion Assemblies                  | Refer to the <a href="#">ADSS Trunnion Assemblies spec sheet</a> for specific AFL No.                  |
| ADSS Temporary Grip                       | Refer to the <a href="#">ADSS Temporary Grip spec sheet</a> for specific AFL No.                       |
| AGC Downlead Clamp for ADSS               | Refer to the <a href="#">AGC Downlead Clamp for ADSS spec sheet</a> for specific AFL No.               |
| AVD Series Spiral Vibration Dampers       | Refer to the <a href="#">AVD Series Spiral Vibration Dampers spec sheet</a> for specific AFL No.       |
| Coil Brackets                             | Refer to the <a href="#">Coil Brackets spec sheet</a> for specific AFL No.                             |
| Standoff Bracket for ADSS Hardware Clamps | Refer to the <a href="#">Standoff Bracket for ADSS Hardware Clamps spec sheet</a> for specific AFL No. |

### Temperature Specifications

| TEMPERATURE RANGE |                |
|-------------------|----------------|
| Operation         | -40°C to +70°C |
| Storage           | -50°C to +70°C |
| Installation      | -30°C to +70°C |

### Qualifications

| GOVERNING BODY | STANDARD CODE | COMPONENT |
|----------------|---------------|-----------|
| IEEE           | 1222          | Cable     |
| TIA            | 598-D         | Fiber     |

**Contact AFL for your customized ADSS solution.**

*continued*  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

| L I G H T | NESC LIGHT LOADING @ 1% INSTALLATION SAG |        |        |       |          |      |       |      |                 |     |        |       |   |
|-----------|------------------------------------------|--------|--------|-------|----------|------|-------|------|-----------------|-----|--------|-------|---|
|           | SPAN                                     |        | WEIGHT |       | DIAMETER |      | MRCL  |      | INITIAL TENSION |     |        |       |   |
|           |                                          |        |        |       |          |      |       |      | UNLOADED        |     | LOADED |       |   |
|           | FEET                                     | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS   | N    | LBS             | N   | SAG %  | LBS   | N |
|           | 12 FIBERS                                |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100       | 30                                       | 0.080  | 119    | 0.500 | 12.7     | 539  | 2398  | 100  | 446             | 0.6 | 194    | 862   |   |
| 200       | 61                                       | 0.080  | 119    | 0.500 | 12.7     | 539  | 2398  | 201  | 892             | 0.7 | 333    | 1479  |   |
| 300       | 91                                       | 0.080  | 119    | 0.500 | 12.7     | 539  | 2398  | 301  | 1338            | 0.7 | 459    | 2043  |   |
| 400       | 122                                      | 0.080  | 119    | 0.500 | 12.7     | 628  | 2793  | 401  | 1785            | 0.8 | 597    | 2654  |   |
| 500       | 152                                      | 0.080  | 119    | 0.500 | 12.7     | 746  | 3320  | 502  | 2232            | 0.8 | 739    | 3286  |   |
| 600       | 183                                      | 0.080  | 119    | 0.500 | 12.7     | 936  | 4162  | 602  | 2679            | 0.8 | 894    | 3976  |   |
| 700       | 213                                      | 0.084  | 125    | 0.512 | 13.0     | 1126 | 5008  | 737  | 3280            | 0.8 | 1079   | 4800  |   |
| 800       | 244                                      | 0.084  | 125    | 0.512 | 13.0     | 1253 | 5572  | 843  | 3750            | 0.8 | 1227   | 5459  |   |
| 900       | 274                                      | 0.084  | 126    | 0.512 | 13.0     | 1569 | 6981  | 949  | 4221            | 0.8 | 1409   | 6269  |   |
| 1000      | 305                                      | 0.084  | 126    | 0.512 | 13.0     | 1569 | 6981  | 1054 | 4690            | 0.8 | 1535   | 6829  |   |
| 1100      | 335                                      | 0.085  | 126    | 0.512 | 13.0     | 1823 | 8108  | 1162 | 5171            | 0.8 | 1708   | 7595  |   |
| 1200      | 366                                      | 0.090  | 134    | 0.528 | 13.4     | 1950 | 8672  | 1350 | 6005            | 0.8 | 1926   | 8569  |   |
| 1300      | 396                                      | 0.090  | 134    | 0.528 | 13.4     | 2203 | 9799  | 1463 | 6508            | 0.8 | 2103   | 9356  |   |
| 1400      | 427                                      | 0.090  | 134    | 0.528 | 13.4     | 2330 | 10363 | 1576 | 7010            | 0.8 | 2258   | 10044 |   |
| 1500      | 457                                      | 0.090  | 134    | 0.528 | 13.4     | 2456 | 10927 | 1689 | 7512            | 0.8 | 2412   | 10731 |   |
| 24 FIBERS |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100       | 30                                       | 0.081  | 121    | 0.500 | 12.7     | 539  | 2398  | 102  | 452             | 0.6 | 194    | 865   |   |
| 200       | 61                                       | 0.081  | 121    | 0.500 | 12.7     | 539  | 2398  | 203  | 904             | 0.7 | 334    | 1486  |   |
| 300       | 91                                       | 0.081  | 121    | 0.500 | 12.7     | 539  | 2398  | 305  | 1356            | 0.7 | 462    | 2053  |   |
| 400       | 122                                      | 0.081  | 121    | 0.500 | 12.7     | 628  | 2793  | 407  | 1808            | 0.8 | 600    | 2668  |   |
| 500       | 152                                      | 0.081  | 121    | 0.500 | 12.7     | 746  | 3320  | 508  | 2261            | 0.8 | 743    | 3304  |   |
| 600       | 183                                      | 0.081  | 121    | 0.500 | 12.7     | 936  | 4162  | 610  | 2714            | 0.8 | 899    | 3998  |   |
| 700       | 213                                      | 0.085  | 127    | 0.512 | 13.0     | 1126 | 5008  | 747  | 3322            | 0.8 | 1085   | 4826  |   |
| 800       | 244                                      | 0.085  | 127    | 0.512 | 13.0     | 1253 | 5572  | 854  | 3797            | 0.8 | 1234   | 5489  |   |
| 900       | 274                                      | 0.085  | 127    | 0.512 | 13.0     | 1569 | 6981  | 961  | 4274            | 0.8 | 1416   | 6301  |   |
| 1000      | 305                                      | 0.085  | 127    | 0.512 | 13.0     | 1696 | 7545  | 1068 | 4750            | 0.8 | 1566   | 6965  |   |
| 1100      | 335                                      | 0.086  | 127    | 0.512 | 13.0     | 1823 | 8108  | 1177 | 5236            | 0.8 | 1717   | 7635  |   |
| 1200      | 366                                      | 0.091  | 135    | 0.528 | 13.4     | 1950 | 8672  | 1366 | 6075            | 0.8 | 1937   | 8614  |   |
| 1300      | 396                                      | 0.091  | 136    | 0.528 | 13.4     | 2203 | 9799  | 1480 | 6584            | 0.8 | 2114   | 9405  |   |
| 1400      | 427                                      | 0.091  | 136    | 0.528 | 13.4     | 2456 | 10927 | 1595 | 7094            | 0.8 | 2292   | 10194 |   |
| 1500      | 457                                      | 0.091  | 136    | 0.528 | 13.4     | 2583 | 11490 | 1709 | 7602            | 0.8 | 2447   | 10886 |   |
| 36 FIBERS |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100       | 30                                       | 0.082  | 123    | 0.500 | 12.7     | 539  | 2398  | 103  | 458             | 0.6 | 195    | 867   |   |
| 200       | 61                                       | 0.082  | 123    | 0.500 | 12.7     | 598  | 2661  | 206  | 916             | 0.7 | 343    | 1526  |   |
| 300       | 91                                       | 0.082  | 123    | 0.500 | 12.7     | 598  | 2661  | 309  | 1375            | 0.8 | 464    | 2064  |   |
| 400       | 122                                      | 0.082  | 123    | 0.500 | 12.7     | 598  | 2661  | 412  | 1833            | 0.8 | 598    | 2660  |   |
| 500       | 152                                      | 0.082  | 123    | 0.500 | 12.7     | 776  | 3452  | 515  | 2291            | 0.8 | 752    | 3345  |   |
| 600       | 183                                      | 0.082  | 123    | 0.500 | 12.7     | 999  | 4444  | 618  | 2749            | 0.8 | 915    | 4070  |   |
| 700       | 213                                      | 0.086  | 129    | 0.512 | 13.0     | 1189 | 5290  | 756  | 3363            | 0.8 | 1102   | 4902  |   |
| 800       | 244                                      | 0.086  | 129    | 0.512 | 13.0     | 1253 | 5572  | 864  | 3843            | 0.8 | 1241   | 5520  |   |
| 900       | 274                                      | 0.086  | 129    | 0.512 | 13.0     | 1569 | 6981  | 973  | 4328            | 0.8 | 1424   | 6334  |   |
| 1000      | 305                                      | 0.086  | 129    | 0.512 | 13.0     | 1569 | 6981  | 1081 | 4809            | 0.8 | 1552   | 6904  |   |
| 1100      | 335                                      | 0.087  | 129    | 0.512 | 13.0     | 1823 | 8108  | 1192 | 5302            | 0.8 | 1726   | 7678  |   |
| 1200      | 366                                      | 0.092  | 137    | 0.528 | 13.4     | 2076 | 9236  | 1382 | 6147            | 0.8 | 1969   | 8759  |   |
| 1300      | 396                                      | 0.092  | 137    | 0.528 | 13.4     | 2203 | 9799  | 1497 | 6659            | 0.8 | 2125   | 9452  |   |
| 1400      | 427                                      | 0.092  | 137    | 0.528 | 13.4     | 2330 | 10363 | 1613 | 7175            | 0.8 | 2281   | 10146 |   |
| 1500      | 457                                      | 0.092  | 137    | 0.528 | 13.4     | 2456 | 10927 | 1728 | 7687            | 0.8 | 2438   | 10845 |   |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

### NESC LIGHT LOADING @ 1% INSTALLATION SAG

| SPAN      |        | WEIGHT |       | DIAMETER |      | MRCL |       | INITIAL TENSION |      |        |      |       |
|-----------|--------|--------|-------|----------|------|------|-------|-----------------|------|--------|------|-------|
|           |        |        |       |          |      |      |       | UNLOADED        |      | LOADED |      |       |
| FEET      | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS  | N     | LBS             | N    | SAG %  | LBS  | N     |
| 48 FIBERS |        |        |       |          |      |      |       |                 |      |        |      |       |
| 100       | 30     | 0.083  | 124   | 0.500    | 12.7 | 539  | 2398  | 104             | 463  | 0.6    | 196  | 872   |
| 200       | 61     | 0.083  | 124   | 0.500    | 12.7 | 598  | 2661  | 209             | 930  | 0.7    | 344  | 1530  |
| 300       | 91     | 0.083  | 124   | 0.500    | 12.7 | 598  | 2661  | 313             | 1392 | 0.7    | 476  | 2117  |
| 400       | 122    | 0.083  | 124   | 0.500    | 12.7 | 628  | 2793  | 417             | 1855 | 0.8    | 606  | 2696  |
| 500       | 152    | 0.083  | 124   | 0.500    | 12.7 | 776  | 3452  | 522             | 2322 | 0.8    | 756  | 3363  |
| 600       | 183    | 0.083  | 124   | 0.500    | 12.7 | 999  | 4444  | 626             | 2785 | 0.8    | 920  | 4092  |
| 700       | 213    | 0.087  | 130   | 0.512    | 13.0 | 1189 | 5290  | 765             | 3403 | 0.8    | 1108 | 4929  |
| 800       | 244    | 0.087  | 130   | 0.512    | 13.0 | 1253 | 5572  | 875             | 3892 | 0.8    | 1247 | 5547  |
| 900       | 274    | 0.088  | 130   | 0.512    | 13.0 | 1569 | 6981  | 985             | 4381 | 0.8    | 1431 | 6365  |
| 1000      | 305    | 0.088  | 130   | 0.512    | 13.0 | 1569 | 6981  | 1094            | 4866 | 0.8    | 1560 | 6939  |
| 1100      | 335    | 0.088  | 131   | 0.512    | 13.0 | 1823 | 8108  | 1206            | 5365 | 0.8    | 1735 | 7718  |
| 1200      | 366    | 0.093  | 139   | 0.528    | 13.4 | 2076 | 9236  | 1398            | 6219 | 0.8    | 1979 | 8803  |
| 1300      | 396    | 0.093  | 139   | 0.528    | 13.4 | 2330 | 10363 | 1515            | 6739 | 0.8    | 2158 | 9599  |
| 1400      | 427    | 0.093  | 139   | 0.528    | 13.4 | 2456 | 10927 | 1632            | 7259 | 0.8    | 2315 | 10298 |
| 1500      | 457    | 0.093  | 139   | 0.528    | 13.4 | 2456 | 10927 | 1748            | 7775 | 0.8    | 2450 | 10898 |
| 60 FIBERS |        |        |       |          |      |      |       |                 |      |        |      |       |
| 100       | 30     | 0.084  | 126   | 0.500    | 12.7 | 539  | 2398  | 106             | 472  | 0.6    | 197  | 876   |
| 200       | 61     | 0.084  | 126   | 0.500    | 12.7 | 539  | 2398  | 211             | 939  | 0.7    | 339  | 1508  |
| 300       | 91     | 0.084  | 126   | 0.500    | 12.7 | 539  | 2398  | 317             | 1410 | 0.8    | 469  | 2086  |
| 400       | 122    | 0.084  | 126   | 0.500    | 12.7 | 628  | 2793  | 422             | 1877 | 0.8    | 610  | 2713  |
| 500       | 152    | 0.085  | 126   | 0.500    | 12.7 | 809  | 3599  | 528             | 2349 | 0.8    | 766  | 3407  |
| 600       | 183    | 0.085  | 126   | 0.500    | 12.7 | 936  | 4162  | 634             | 2820 | 0.8    | 914  | 4066  |
| 700       | 213    | 0.089  | 132   | 0.512    | 13.0 | 1126 | 5008  | 775             | 3447 | 0.8    | 1102 | 4902  |
| 800       | 244    | 0.089  | 132   | 0.512    | 13.0 | 1316 | 5854  | 885             | 3937 | 0.8    | 1265 | 5627  |
| 900       | 274    | 0.089  | 132   | 0.512    | 13.0 | 1569 | 6981  | 997             | 4435 | 0.8    | 1439 | 6401  |
| 1000      | 305    | 0.089  | 132   | 0.512    | 13.0 | 1569 | 6981  | 1107            | 4924 | 0.8    | 1568 | 6975  |
| 1100      | 335    | 0.089  | 132   | 0.512    | 13.0 | 1823 | 8108  | 1221            | 5431 | 0.8    | 1744 | 7758  |
| 1200      | 366    | 0.094  | 140   | 0.528    | 13.4 | 2076 | 9236  | 1414            | 6290 | 0.8    | 1989 | 8848  |
| 1300      | 396    | 0.094  | 140   | 0.528    | 13.4 | 2330 | 10363 | 1532            | 6815 | 0.8    | 2169 | 9648  |
| 1400      | 427    | 0.094  | 140   | 0.528    | 13.4 | 2330 | 10363 | 1650            | 7340 | 0.8    | 2305 | 10253 |
| 1500      | 457    | 0.094  | 140   | 0.528    | 13.4 | 2710 | 12054 | 1769            | 7869 | 0.8    | 2507 | 11152 |
| 72 FIBERS |        |        |       |          |      |      |       |                 |      |        |      |       |
| 100       | 30     | 0.100  | 148   | 0.535    | 13.6 | 854  | 3797  | 125             | 556  | 0.6    | 235  | 1045  |
| 200       | 61     | 0.100  | 148   | 0.535    | 13.6 | 854  | 3797  | 249             | 1108 | 0.7    | 405  | 1802  |
| 300       | 91     | 0.100  | 148   | 0.535    | 13.6 | 854  | 3797  | 374             | 1664 | 0.7    | 561  | 2495  |
| 400       | 122    | 0.100  | 148   | 0.535    | 13.6 | 854  | 3797  | 499             | 2220 | 0.8    | 709  | 3154  |
| 500       | 152    | 0.100  | 148   | 0.535    | 13.6 | 854  | 3797  | 623             | 2771 | 0.8    | 853  | 3794  |
| 600       | 183    | 0.100  | 149   | 0.535    | 13.6 | 1031 | 4587  | 748             | 3327 | 0.8    | 1025 | 4559  |
| 700       | 213    | 0.108  | 161   | 0.559    | 14.2 | 1314 | 5843  | 949             | 4221 | 0.8    | 1280 | 5694  |
| 800       | 244    | 0.108  | 161   | 0.559    | 14.2 | 1504 | 6689  | 1084            | 4822 | 0.8    | 1464 | 6512  |
| 900       | 274    | 0.108  | 161   | 0.559    | 14.2 | 1884 | 8380  | 1221            | 5431 | 0.8    | 1677 | 7460  |
| 1000      | 305    | 0.108  | 161   | 0.559    | 14.2 | 1884 | 8380  | 1356            | 6032 | 0.8    | 1831 | 8145  |
| 1100      | 335    | 0.109  | 161   | 0.559    | 14.2 | 2011 | 8943  | 1492            | 6637 | 0.8    | 2004 | 8914  |
| 1200      | 366    | 0.109  | 162   | 0.559    | 14.2 | 2264 | 10071 | 1628            | 7242 | 0.8    | 2198 | 9777  |
| 1300      | 396    | 0.109  | 162   | 0.559    | 14.2 | 2391 | 10634 | 1767            | 7860 | 0.8    | 2374 | 10560 |
| 1400      | 427    | 0.109  | 162   | 0.559    | 14.2 | 2644 | 11762 | 1903            | 8465 | 0.8    | 2568 | 11423 |
| 1500      | 457    | 0.109  | 162   | 0.559    | 14.2 | 2771 | 12326 | 2040            | 9074 | 0.8    | 2741 | 12193 |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

| L I G H T  | NESC LIGHT LOADING @ 1% INSTALLATION SAG |        |        |       |          |      |       |      |                 |     |        |       |   |
|------------|------------------------------------------|--------|--------|-------|----------|------|-------|------|-----------------|-----|--------|-------|---|
|            | SPAN                                     |        | WEIGHT |       | DIAMETER |      | MRCL  |      | INITIAL TENSION |     |        |       |   |
|            |                                          |        |        |       |          |      |       |      | UNLOADED        |     | LOADED |       |   |
|            | FEET                                     | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS   | N    | LBS             | N   | SAG %  | LBS   | N |
|            | 84 FIBERS                                |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100        | 30                                       | 0.131  | 195    | 0.610 | 15.5     | 1296 | 5763  | 164  | 730             | 0.6 | 295    | 1312  |   |
| 200        | 61                                       | 0.131  | 195    | 0.610 | 15.5     | 1296 | 5763  | 328  | 1459            | 0.7 | 512    | 2277  |   |
| 300        | 91                                       | 0.131  | 195    | 0.610 | 15.5     | 1296 | 5763  | 492  | 2189            | 0.8 | 712    | 3167  |   |
| 400        | 122                                      | 0.131  | 195    | 0.610 | 15.5     | 1296 | 5763  | 656  | 2918            | 0.8 | 903    | 4017  |   |
| 500        | 152                                      | 0.131  | 195    | 0.610 | 15.5     | 1296 | 5763  | 820  | 3648            | 0.8 | 1089   | 4844  |   |
| 600        | 183                                      | 0.131  | 195    | 0.610 | 15.5     | 1296 | 5763  | 984  | 4377            | 0.9 | 1270   | 5649  |   |
| 700        | 213                                      | 0.131  | 195    | 0.610 | 15.5     | 1503 | 6685  | 1148 | 5107            | 0.9 | 1481   | 6588  |   |
| 800        | 244                                      | 0.131  | 195    | 0.610 | 15.5     | 1692 | 7528  | 1313 | 5841            | 0.9 | 1689   | 7513  |   |
| 900        | 274                                      | 0.131  | 195    | 0.610 | 15.5     | 1946 | 8655  | 1477 | 6570            | 0.9 | 1907   | 8483  |   |
| 1000       | 305                                      | 0.138  | 205    | 0.626 | 15.9     | 2326 | 10346 | 1725 | 7673            | 0.9 | 2216   | 9857  |   |
| 1100       | 335                                      | 0.138  | 205    | 0.626 | 15.9     | 2453 | 10910 | 1898 | 8443            | 0.9 | 2422   | 10774 |   |
| 1200       | 366                                      | 0.138  | 205    | 0.626 | 15.9     | 2706 | 12037 | 2071 | 9212            | 0.9 | 2647   | 11774 |   |
| 1300       | 396                                      | 0.138  | 206    | 0.626 | 15.9     | 2960 | 13165 | 2244 | 9982            | 0.9 | 2872   | 12775 |   |
| 1400       | 427                                      | 0.138  | 206    | 0.626 | 15.9     | 3086 | 13728 | 2417 | 10751           | 0.9 | 3079   | 13696 |   |
| 1500       | 457                                      | 0.138  | 206    | 0.626 | 15.9     | 3340 | 14856 | 2590 | 11521           | 0.9 | 3304   | 14697 |   |
| 96 FIBERS  |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100        | 30                                       | 0.132  | 197    | 0.610 | 15.5     | 1296 | 5763  | 165  | 734             | 0.6 | 296    | 1317  |   |
| 200        | 61                                       | 0.132  | 197    | 0.610 | 15.5     | 1296 | 5763  | 331  | 1472            | 0.7 | 514    | 2286  |   |
| 300        | 91                                       | 0.132  | 197    | 0.610 | 15.5     | 1296 | 5763  | 496  | 2206            | 0.8 | 715    | 3180  |   |
| 400        | 122                                      | 0.132  | 197    | 0.610 | 15.5     | 1296 | 5763  | 661  | 2940            | 0.8 | 907    | 4035  |   |
| 500        | 152                                      | 0.132  | 197    | 0.610 | 15.5     | 1296 | 5763  | 827  | 3679            | 0.8 | 1093   | 4862  |   |
| 600        | 183                                      | 0.132  | 197    | 0.610 | 15.5     | 1296 | 5763  | 992  | 4413            | 0.9 | 1276   | 5676  |   |
| 700        | 213                                      | 0.132  | 197    | 0.610 | 15.5     | 1503 | 6685  | 1158 | 5151            | 0.9 | 1488   | 6619  |   |
| 800        | 244                                      | 0.132  | 197    | 0.610 | 15.5     | 1756 | 7810  | 1324 | 5889            | 0.9 | 1706   | 7589  |   |
| 900        | 274                                      | 0.132  | 197    | 0.610 | 15.5     | 1946 | 8655  | 1489 | 6623            | 0.9 | 1915   | 8518  |   |
| 1000       | 305                                      | 0.139  | 207    | 0.626 | 15.9     | 2326 | 10346 | 1738 | 7731            | 0.9 | 2225   | 9897  |   |
| 1100       | 335                                      | 0.139  | 207    | 0.626 | 15.9     | 2453 | 10910 | 1912 | 8505            | 0.9 | 2433   | 10823 |   |
| 1200       | 366                                      | 0.139  | 207    | 0.626 | 15.9     | 2706 | 12037 | 2087 | 9283            | 0.9 | 2659   | 11828 |   |
| 1300       | 396                                      | 0.139  | 207    | 0.626 | 15.9     | 2960 | 13165 | 2261 | 10057           | 0.9 | 2885   | 12833 |   |
| 1400       | 427                                      | 0.139  | 207    | 0.626 | 15.9     | 3213 | 14292 | 2436 | 10836           | 0.9 | 3111   | 13838 |   |
| 1500       | 457                                      | 0.139  | 207    | 0.626 | 15.9     | 3340 | 14856 | 2610 | 11610           | 0.9 | 3319   | 14764 |   |
| 108 FIBERS |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100        | 30                                       | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 213  | 947             | 0.6 | 371    | 1650  |   |
| 200        | 61                                       | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 426  | 1895            | 0.7 | 648    | 2882  |   |
| 300        | 91                                       | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 639  | 2842            | 0.8 | 904    | 4021  |   |
| 400        | 122                                      | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 852  | 3790            | 0.8 | 1149   | 5111  |   |
| 500        | 152                                      | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 1065 | 4737            | 0.8 | 1387   | 6170  |   |
| 600        | 183                                      | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 1278 | 5685            | 0.9 | 1621   | 7211  |   |
| 700        | 213                                      | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 1491 | 6632            | 0.9 | 1851   | 8234  |   |
| 800        | 244                                      | 0.170  | 254    | 0.685 | 17.4     | 2129 | 9470  | 1704 | 7580            | 0.9 | 2087   | 9283  |   |
| 900        | 274                                      | 0.178  | 264    | 0.701 | 17.8     | 2467 | 10972 | 1999 | 8892            | 0.9 | 2430   | 10809 |   |
| 1000       | 305                                      | 0.178  | 265    | 0.701 | 17.8     | 2720 | 12099 | 2222 | 9884            | 0.9 | 2698   | 12001 |   |
| 1100       | 335                                      | 0.178  | 265    | 0.701 | 17.8     | 3100 | 13790 | 2447 | 10885           | 0.9 | 2984   | 13273 |   |
| 1200       | 366                                      | 0.178  | 265    | 0.701 | 17.8     | 3354 | 14918 | 2670 | 11877           | 0.9 | 3252   | 14466 |   |
| 1300       | 396                                      | 0.178  | 265    | 0.701 | 17.8     | 3607 | 16045 | 2893 | 12869           | 0.9 | 3520   | 15658 |   |
| 1400       | 427                                      | 0.178  | 265    | 0.701 | 17.8     | 3860 | 17172 | 3117 | 13865           | 0.9 | 3789   | 16854 |   |
| 1500       | 457                                      | 0.178  | 265    | 0.701 | 17.8     | 4114 | 18300 | 3340 | 14857           | 0.9 | 4057   | 18046 |   |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

### NESC LIGHT LOADING @ 1% INSTALLATION SAG

| SPAN       |        | WEIGHT |       | DIAMETER |      | MRCL |       | INITIAL TENSION |       |        |      |       |
|------------|--------|--------|-------|----------|------|------|-------|-----------------|-------|--------|------|-------|
|            |        |        |       |          |      |      |       | UNLOADED        |       | LOADED |      |       |
| FEET       | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS  | N     | LBS             | N     | SAG %  | LBS  | N     |
| 120 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 214             | 952   | 0.6    | 371  | 1650  |
| 200        | 61     | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 429             | 1908  | 0.7    | 650  | 2891  |
| 300        | 91     | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 643             | 2860  | 0.8    | 906  | 4030  |
| 400        | 122    | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 857             | 3812  | 0.8    | 1152 | 5124  |
| 500        | 152    | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 1072            | 4768  | 0.8    | 1392 | 6192  |
| 600        | 183    | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 1286            | 5720  | 0.9    | 1627 | 7237  |
| 700        | 213    | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 1501            | 6677  | 0.9    | 1858 | 8265  |
| 800        | 244    | 0.172  | 255   | 0.685    | 17.4 | 2129 | 9470  | 1715            | 7629  | 0.9    | 2095 | 9319  |
| 900        | 274    | 0.179  | 266   | 0.701    | 17.8 | 2467 | 10972 | 2011            | 8945  | 0.9    | 2440 | 10854 |
| 1000       | 305    | 0.179  | 266   | 0.701    | 17.8 | 2720 | 12099 | 2235            | 9942  | 0.9    | 2709 | 12050 |
| 1100       | 335    | 0.179  | 266   | 0.701    | 17.8 | 3100 | 13790 | 2462            | 10952 | 0.9    | 2995 | 13322 |
| 1200       | 366    | 0.179  | 267   | 0.701    | 17.8 | 3354 | 14918 | 2686            | 11948 | 0.9    | 3264 | 14519 |
| 1300       | 396    | 0.179  | 267   | 0.701    | 17.8 | 3607 | 16045 | 2911            | 12949 | 0.9    | 3533 | 15716 |
| 1400       | 427    | 0.179  | 267   | 0.701    | 17.8 | 3860 | 17172 | 3136            | 13950 | 0.9    | 3803 | 16917 |
| 1500       | 457    | 0.179  | 267   | 0.701    | 17.8 | 4114 | 18300 | 3360            | 14946 | 0.9    | 4072 | 18113 |
| 132 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 260             | 1157  | 0.7    | 415  | 1846  |
| 200        | 61     | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 520             | 2313  | 0.8    | 734  | 3265  |
| 300        | 91     | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 780             | 3470  | 0.8    | 1031 | 4586  |
| 400        | 122    | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 1040            | 4626  | 0.9    | 1318 | 5863  |
| 500        | 152    | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 1300            | 5783  | 0.9    | 1599 | 7113  |
| 600        | 183    | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 1560            | 6939  | 0.9    | 1875 | 8340  |
| 700        | 213    | 0.208  | 310   | 0.764    | 19.4 | 2188 | 9734  | 1821            | 8100  | 0.9    | 2163 | 9622  |
| 800        | 244    | 0.208  | 310   | 0.764    | 19.4 | 2530 | 11253 | 2081            | 9257  | 0.9    | 2476 | 11014 |
| 900        | 274    | 0.208  | 310   | 0.764    | 19.4 | 2783 | 12381 | 2342            | 10418 | 0.9    | 2778 | 12357 |
| 1000       | 305    | 0.216  | 322   | 0.780    | 19.8 | 3227 | 14354 | 2704            | 12028 | 0.9    | 3194 | 14208 |
| 1100       | 335    | 0.216  | 322   | 0.780    | 19.8 | 3607 | 16045 | 2975            | 13233 | 0.9    | 3521 | 15662 |
| 1200       | 366    | 0.217  | 322   | 0.780    | 19.8 | 3860 | 17172 | 3248            | 14448 | 0.9    | 3835 | 17059 |
| 1300       | 396    | 0.217  | 322   | 0.780    | 19.8 | 4241 | 18863 | 3520            | 15658 | 0.9    | 4162 | 18513 |
| 1400       | 427    | 0.217  | 322   | 0.780    | 19.8 | 4494 | 19991 | 3792            | 16868 | 0.9    | 4475 | 19906 |
| 1500       | 457    | 0.217  | 323   | 0.780    | 19.8 | 4874 | 21682 | 4064            | 18078 | 0.9    | 4802 | 21360 |
| 144 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 261             | 1161  | 0.7    | 416  | 1850  |
| 200        | 61     | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 523             | 2326  | 0.8    | 736  | 3274  |
| 300        | 91     | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 784             | 3487  | 0.8    | 1034 | 4599  |
| 400        | 122    | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 1046            | 4653  | 0.9    | 1322 | 5881  |
| 500        | 152    | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 1307            | 5814  | 0.9    | 1604 | 7135  |
| 600        | 183    | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 1568            | 6975  | 0.9    | 1882 | 8372  |
| 700        | 213    | 0.209  | 311   | 0.764    | 19.4 | 2188 | 9734  | 1830            | 8140  | 0.9    | 2170 | 9653  |
| 800        | 244    | 0.209  | 311   | 0.764    | 19.4 | 2530 | 11253 | 2092            | 9306  | 0.9    | 2484 | 11049 |
| 900        | 274    | 0.209  | 311   | 0.764    | 19.4 | 2847 | 12663 | 2354            | 10471 | 0.9    | 2795 | 12433 |
| 1000       | 305    | 0.217  | 324   | 0.780    | 19.8 | 3227 | 14354 | 2717            | 12086 | 0.9    | 3205 | 14257 |
| 1100       | 335    | 0.217  | 324   | 0.780    | 19.8 | 3607 | 16045 | 2990            | 13300 | 0.9    | 3533 | 15716 |
| 1200       | 366    | 0.218  | 324   | 0.780    | 19.8 | 3860 | 17172 | 3265            | 14523 | 0.9    | 3848 | 17117 |
| 1300       | 396    | 0.218  | 324   | 0.780    | 19.8 | 4241 | 18863 | 3538            | 15738 | 0.9    | 4176 | 18576 |
| 1400       | 427    | 0.218  | 324   | 0.780    | 19.8 | 4494 | 19991 | 3811            | 16952 | 0.9    | 4489 | 19968 |
| 1500       | 457    | 0.218  | 324   | 0.780    | 19.8 | 4874 | 21682 | 4084            | 18167 | 0.9    | 4818 | 21432 |

\* Initial tension indicates tension before 10 year creep.

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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

| L<br>I<br>G<br>H<br>T | NESC LIGHT LOADING @ 1% INSTALLATION SAG |        |        |       |          |      |       |      |                 |      |        |       |      |
|-----------------------|------------------------------------------|--------|--------|-------|----------|------|-------|------|-----------------|------|--------|-------|------|
|                       | SPAN                                     |        | WEIGHT |       | DIAMETER |      | MRCL  |      | INITIAL TENSION |      |        |       |      |
|                       |                                          |        |        |       |          |      |       |      | UNLOADED        |      | LOADED |       |      |
|                       | FEET                                     | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS   | N    | LBS             | N    | SAG %  | LBS   | N    |
|                       | 216 FIBERS                               |        |        |       |          |      |       |      |                 |      |        |       |      |
|                       | 100                                      | 30     | 0.202  | 301   | 0.780    | 19.8 | 854   | 3797 | 253             | 1125 | 0.8    | 353   | 1570 |
|                       | 200                                      | 61     | 0.202  | 301   | 0.780    | 19.8 | 854   | 3797 | 505             | 2246 | 0.9    | 635   | 2825 |
|                       | 300                                      | 91     | 0.202  | 301   | 0.780    | 19.8 | 913   | 4060 | 758             | 3372 | 0.9    | 911   | 4052 |
|                       | 400                                      | 122    | 0.202  | 301   | 0.780    | 19.8 | 1250  | 5561 | 1011            | 4497 | 0.9    | 1219  | 5422 |
|                       | 500                                      | 152    | 0.202  | 301   | 0.780    | 19.8 | 1630  | 7252 | 1264            | 5623 | 0.9    | 1533  | 6819 |
| 600                   | 183                                      | 0.202  | 301    | 0.780 | 19.8     | 1884 | 8380  | 1517 | 6748            | 0.9  | 1831   | 8145  |      |
| 700                   | 213                                      | 0.211  | 313    | 0.795 | 20.2     | 2264 | 10071 | 1843 | 8198            | 0.9  | 2208   | 9822  |      |
| 800                   | 244                                      | 0.211  | 313    | 0.795 | 20.2     | 2517 | 11198 | 2106 | 9368            | 0.9  | 2516   | 11192 |      |
| 900                   | 274                                      | 0.211  | 314    | 0.795 | 20.2     | 2898 | 12889 | 2371 | 10547           | 0.9  | 2839   | 12629 |      |
| 1000                  | 305                                      | 0.211  | 314    | 0.795 | 20.2     | 3151 | 14017 | 2634 | 11717           | 0.9  | 3147   | 13999 |      |
| 1100                  | 335                                      | 0.211  | 314    | 0.795 | 20.2     | 3531 | 15708 | 2899 | 12895           | 0.9  | 3470   | 15435 |      |
| 1200                  | 366                                      | 0.211  | 314    | 0.795 | 20.2     | 3785 | 16835 | 3163 | 14070           | 0.9  | 3778   | 16805 |      |
| 1300                  | 396                                      | 0.219  | 326    | 0.811 | 20.6     | 4292 | 19090 | 3564 | 15853           | 0.9  | 4238   | 18852 |      |
| 1400                  | 427                                      | 0.220  | 327    | 0.811 | 20.6     | 4689 | 20857 | 3845 | 17103           | 0.9  | 4577   | 20360 |      |
| 1500                  | 457                                      | 0.220  | 327    | 0.811 | 20.6     | 5069 | 22548 | 4121 | 18331           | 0.9  | 4909   | 21836 |      |
| 288 FIBERS            |                                          |        |        |       |          |      |       |      |                 |      |        |       |      |
| 100                   | 30                                       | 0.259  | 385    | 0.890 | 22.6     | 1296 | 5763  | 323  | 1439            | 0.8  | 444    | 1975  |      |
| 200                   | 61                                       | 0.259  | 385    | 0.890 | 22.6     | 1296 | 5763  | 647  | 2878            | 0.9  | 802    | 3569  |      |
| 300                   | 91                                       | 0.259  | 385    | 0.890 | 22.6     | 1296 | 5763  | 970  | 4317            | 0.9  | 1146   | 5096  |      |
| 400                   | 122                                      | 0.259  | 385    | 0.890 | 22.6     | 1566 | 6964  | 1294 | 5757            | 0.9  | 1511   | 6723  |      |
| 500                   | 152                                      | 0.259  | 385    | 0.890 | 22.6     | 2072 | 9219  | 1618 | 7198            | 0.9  | 1901   | 8457  |      |
| 600                   | 183                                      | 0.259  | 385    | 0.890 | 22.6     | 2326 | 10346 | 1942 | 8639            | 0.9  | 2265   | 10077 |      |
| 700                   | 213                                      | 0.259  | 385    | 0.890 | 22.6     | 2706 | 12037 | 2267 | 10082           | 0.9  | 2643   | 11755 |      |
| 800                   | 244                                      | 0.259  | 386    | 0.890 | 22.6     | 3086 | 13728 | 2591 | 11525           | 0.9  | 3020   | 13434 |      |
| 900                   | 274                                      | 0.269  | 400    | 0.906 | 23.0     | 3593 | 15983 | 3023 | 13447           | 0.9  | 3507   | 15602 |      |
| 1000                  | 305                                      | 0.269  | 400    | 0.906 | 23.0     | 3973 | 17674 | 3360 | 14945           | 0.9  | 3896   | 17330 |      |
| 1100                  | 335                                      | 0.269  | 400    | 0.906 | 23.0     | 4354 | 19365 | 3697 | 16444           | 0.9  | 4284   | 19058 |      |
| 1200                  | 366                                      | 0.269  | 400    | 0.906 | 23.0     | 4734 | 21056 | 4034 | 17943           | 0.9  | 4673   | 20787 |      |
| 1300                  | 396                                      | 0.268  | 399    | 0.921 | 23.4     | 5069 | 22548 | 4354 | 19368           | 0.9  | 5062   | 22516 |      |
| 1400                  | 427                                      | 0.268  | 399    | 0.921 | 23.4     | 5576 | 24803 | 4691 | 20865           | 0.9  | 5464   | 24307 |      |
| 1500                  | 457                                      | 0.268  | 399    | 0.921 | 23.4     | 5956 | 26494 | 5027 | 22361           | 0.9  | 5854   | 26039 |      |
| 432 FIBERS            |                                          |        |        |       |          |      |       |      |                 |      |        |       |      |
| 100                   | 30                                       | 0.298  | 444    | 0.953 | 24.2     | 1296 | 5763  | 373  | 1658            | 0.8  | 487    | 2168  |      |
| 200                   | 61                                       | 0.298  | 444    | 0.953 | 24.2     | 1296 | 5763  | 745  | 3316            | 0.9  | 890    | 3959  |      |
| 300                   | 91                                       | 0.298  | 444    | 0.953 | 24.2     | 1296 | 5763  | 1118 | 4974            | 0.9  | 1279   | 5689  |      |
| 400                   | 122                                      | 0.298  | 444    | 0.953 | 24.2     | 1756 | 7810  | 1491 | 6634            | 0.9  | 1708   | 7598  |      |
| 500                   | 152                                      | 0.298  | 444    | 0.953 | 24.2     | 2326 | 10346 | 1865 | 8295            | 0.9  | 2148   | 9554  |      |
| 600                   | 183                                      | 0.298  | 444    | 0.953 | 24.2     | 2579 | 11474 | 2238 | 9956            | 0.9  | 2558   | 11379 |      |
| 700                   | 213                                      | 0.299  | 444    | 0.953 | 24.2     | 3086 | 13728 | 2612 | 11619           | 0.9  | 2992   | 13310 |      |
| 800                   | 244                                      | 0.299  | 444    | 0.953 | 24.2     | 3466 | 15419 | 2986 | 13281           | 0.9  | 3415   | 15189 |      |
| 900                   | 274                                      | 0.309  | 459    | 0.969 | 24.6     | 3973 | 17674 | 3473 | 15448           | 0.9  | 3952   | 17580 |      |
| 1000                  | 305                                      | 0.309  | 460    | 0.969 | 24.6     | 4480 | 19929 | 3860 | 17170           | 0.9  | 4398   | 19564 |      |
| 1100                  | 335                                      | 0.309  | 460    | 0.969 | 24.6     | 4860 | 21620 | 4247 | 18891           | 0.9  | 4832   | 21496 |      |
| 1200                  | 366                                      | 0.320  | 476    | 0.984 | 25.0     | 5449 | 24239 | 4796 | 21333           | 0.9  | 5433   | 24168 |      |
| 1300                  | 396                                      | 0.320  | 476    | 0.984 | 25.0     | 5956 | 26494 | 5197 | 23118           | 0.9  | 5892   | 26208 |      |
| 1400                  | 427                                      | 0.319  | 474    | 0.984 | 25.0     | 6336 | 28185 | 5576 | 24804           | 0.9  | 6321   | 28118 |      |
| 1500                  | 457                                      | 0.319  | 474    | 0.984 | 25.0     | 6970 | 31003 | 5977 | 26585           | 0.9  | 6791   | 30207 |      |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

### NESC MEDIUM LOADING @ 1% INSTALLATION SAG

| SPAN      |        | WEIGHT |       | DIAMETER |      | MRCL |       | INITIAL TENSION |      |        |      |       |
|-----------|--------|--------|-------|----------|------|------|-------|-----------------|------|--------|------|-------|
|           |        |        |       |          |      |      |       | UNLOADED        |      | LOADED |      |       |
| FEET      | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS  | N     | LBS             | N    | SAG %  | LBS  | N     |
| 12 FIBERS |        |        |       |          |      |      |       |                 |      |        |      |       |
| 100       | 30     | 0.08   | 119   | 0.5      | 12.7 | 539  | 2398  | 100             | 446  | 2.3    | 242  | 1074  |
| 200       | 61     | 0.08   | 119   | 0.5      | 12.7 | 539  | 2398  | 201             | 892  | 2.8    | 406  | 1807  |
| 300       | 91     | 0.08   | 119   | 0.5      | 12.7 | 598  | 2661  | 301             | 1339 | 3.0    | 518  | 2304  |
| 400       | 122    | 0.08   | 119   | 0.5      | 12.7 | 746  | 3320  | 401             | 1785 | 3.0    | 744  | 3311  |
| 500       | 152    | 0.08   | 120   | 0.5      | 12.7 | 999  | 4444  | 502             | 2232 | 3.0    | 946  | 4206  |
| 600       | 183    | 0.084  | 125   | 0.512    | 13   | 1189 | 5290  | 632             | 2812 | 2.9    | 1055 | 4694  |
| 700       | 213    | 0.084  | 126   | 0.512    | 13   | 1569 | 6981  | 738             | 3283 | 2.9    | 1387 | 6168  |
| 800       | 244    | 0.084  | 126   | 0.512    | 13   | 1569 | 6981  | 844             | 3752 | 3.0    | 1536 | 6834  |
| 900       | 274    | 0.085  | 126   | 0.512    | 13   | 1823 | 8108  | 951             | 4231 | 3.0    | 1742 | 7751  |
| 1000      | 305    | 0.09   | 134   | 0.528    | 13.4 | 2076 | 9236  | 1125            | 5005 | 2.9    | 1825 | 8118  |
| 1100      | 335    | 0.09   | 134   | 0.528    | 13.4 | 2203 | 9799  | 1238            | 5506 | 3.0    | 2180 | 9698  |
| 1200      | 366    | 0.09   | 134   | 0.528    | 13.4 | 2456 | 10927 | 1351            | 6010 | 2.9    | 2391 | 10634 |
| 1300      | 396    | 0.09   | 134   | 0.528    | 13.4 | 2583 | 11490 | 1464            | 6512 | 3.0    | 2573 | 11444 |
| 1400      | 427    | 0.09   | 134   | 0.528    | 13.4 | 2837 | 12618 | 1577            | 7016 | 3.0    | 2783 | 12380 |
| 1500      | 457    | 0.09   | 134   | 0.528    | 13.4 | 3090 | 13745 | 1691            | 7520 | 2.9    | 2994 | 13316 |
| 24 FIBERS |        |        |       |          |      |      |       |                 |      |        |      |       |
| 100       | 30     | 0.081  | 121   | 0.5      | 12.7 | 539  | 2398  | 102             | 452  | 2.3    | 242  | 1078  |
| 200       | 61     | 0.081  | 121   | 0.5      | 12.7 | 539  | 2398  | 203             | 904  | 2.8    | 408  | 1813  |
| 300       | 91     | 0.081  | 121   | 0.5      | 12.7 | 598  | 2661  | 305             | 1356 | 3.0    | 520  | 2314  |
| 400       | 122    | 0.081  | 121   | 0.5      | 12.7 | 776  | 3452  | 407             | 1809 | 3.0    | 754  | 3355  |
| 500       | 152    | 0.081  | 121   | 0.5      | 12.7 | 999  | 4444  | 508             | 2262 | 3.0    | 950  | 4224  |
| 600       | 183    | 0.085  | 127   | 0.512    | 13   | 1189 | 5290  | 640             | 2847 | 3.0    | 1060 | 4717  |
| 700       | 213    | 0.085  | 127   | 0.512    | 13   | 1569 | 6981  | 747             | 3324 | 2.9    | 1392 | 6192  |
| 800       | 244    | 0.085  | 127   | 0.512    | 13   | 1696 | 7545  | 854             | 3800 | 2.9    | 1571 | 6986  |
| 900       | 274    | 0.086  | 127   | 0.512    | 13   | 1823 | 8108  | 963             | 4284 | 3.0    | 1750 | 7782  |
| 1000      | 305    | 0.091  | 136   | 0.528    | 13.4 | 2076 | 9236  | 1138            | 5064 | 2.9    | 1833 | 8152  |
| 1100      | 335    | 0.091  | 136   | 0.528    | 13.4 | 2203 | 9799  | 1252            | 5571 | 3.0    | 2189 | 9737  |
| 1200      | 366    | 0.091  | 136   | 0.528    | 13.4 | 2456 | 10927 | 1367            | 6080 | 2.9    | 2400 | 10676 |
| 1300      | 396    | 0.091  | 136   | 0.528    | 13.4 | 2583 | 11490 | 1481            | 6588 | 3.0    | 2583 | 11490 |
| 1400      | 427    | 0.091  | 136   | 0.528    | 13.4 | 2837 | 12618 | 1596            | 7098 | 2.9    | 2794 | 12490 |
| 1500      | 457    | 0.091  | 136   | 0.528    | 13.4 | 3090 | 13745 | 1710            | 7608 | 2.9    | 3006 | 13369 |
| 36 FIBERS |        |        |       |          |      |      |       |                 |      |        |      |       |
| 100       | 30     | 0.082  | 123   | 0.500    | 12.7 | 539  | 2398  | 103             | 458  | 2.3    | 243  | 1081  |
| 200       | 61     | 0.082  | 123   | 0.500    | 12.7 | 598  | 2661  | 206             | 916  | 2.7    | 420  | 1868  |
| 300       | 91     | 0.082  | 123   | 0.500    | 12.7 | 598  | 2661  | 309             | 1375 | 3.0    | 572  | 2544  |
| 400       | 122    | 0.082  | 123   | 0.500    | 12.7 | 776  | 3452  | 412             | 1833 | 3.0    | 757  | 3367  |
| 500       | 152    | 0.082  | 123   | 0.500    | 12.7 | 999  | 4444  | 515             | 2291 | 3.0    | 953  | 4239  |
| 600       | 183    | 0.086  | 129   | 0.512    | 13.0 | 1189 | 5290  | 648             | 2882 | 3.0    | 1164 | 5178  |
| 700       | 213    | 0.086  | 129   | 0.512    | 13.0 | 1506 | 6699  | 756             | 3363 | 2.9    | 1384 | 6156  |
| 800       | 244    | 0.087  | 129   | 0.512    | 13.0 | 1823 | 8108  | 867             | 3857 | 2.9    | 1604 | 7135  |
| 900       | 274    | 0.087  | 129   | 0.512    | 13.0 | 1823 | 8108  | 975             | 4337 | 2.9    | 1757 | 7816  |
| 1000      | 305    | 0.092  | 137   | 0.528    | 13.4 | 2076 | 9236  | 1152            | 5124 | 2.9    | 2014 | 8959  |
| 1100      | 335    | 0.092  | 137   | 0.528    | 13.4 | 2456 | 10927 | 1268            | 5640 | 2.9    | 2252 | 10017 |
| 1200      | 366    | 0.092  | 137   | 0.528    | 13.4 | 2456 | 10927 | 1383            | 6152 | 2.9    | 2410 | 10720 |
| 1300      | 396    | 0.092  | 137   | 0.528    | 13.4 | 2710 | 12054 | 1499            | 6668 | 2.9    | 2621 | 11659 |
| 1400      | 427    | 0.092  | 137   | 0.528    | 13.4 | 2837 | 12618 | 1614            | 7179 | 2.9    | 2806 | 12482 |
| 1500      | 457    | 0.092  | 137   | 0.528    | 13.4 | 3090 | 13745 | 1730            | 7695 | 2.9    | 3017 | 13420 |

\* Initial tension indicates tension before 10 year creep.

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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

| M E D I U M | NESC MEDIUM LOADING @ 1% INSTALLATION SAG |        |        |       |          |      |       |      |                 |     |        |       |   |
|-------------|-------------------------------------------|--------|--------|-------|----------|------|-------|------|-----------------|-----|--------|-------|---|
|             | SPAN                                      |        | WEIGHT |       | DIAMETER |      | MRCL  |      | INITIAL TENSION |     |        |       |   |
|             |                                           |        |        |       |          |      |       |      | UNLOADED        |     | LOADED |       |   |
|             | FEET                                      | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS   | N    | LBS             | N   | SAG %  | LBS   | N |
|             | 48 FIBERS                                 |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100         | 30                                        | 0.083  | 124    | 0.5   | 12.7     | 539  | 2398  | 104  | 463             | 2.3 | 244    | 1085  |   |
| 200         | 61                                        | 0.083  | 124    | 0.5   | 12.7     | 598  | 2661  | 209  | 930             | 2.7 | 421    | 1873  |   |
| 300         | 91                                        | 0.083  | 124    | 0.5   | 12.7     | 598  | 2661  | 313  | 1392            | 3.0 | 574    | 2553  |   |
| 400         | 122                                       | 0.083  | 124    | 0.5   | 12.7     | 776  | 3452  | 417  | 1855            | 3.0 | 761    | 3385  |   |
| 500         | 152                                       | 0.083  | 124    | 0.5   | 12.7     | 999  | 4444  | 522  | 2322            | 3.0 | 957    | 4257  |   |
| 600         | 183                                       | 0.087  | 130    | 0.512 | 13.0     | 1189 | 5290  | 656  | 2918            | 3.0 | 1169   | 5200  |   |
| 700         | 213                                       | 0.088  | 130    | 0.512 | 13.0     | 1506 | 6699  | 766  | 3407            | 2.9 | 1390   | 6183  |   |
| 800         | 244                                       | 0.088  | 131    | 0.512 | 13.0     | 1823 | 8108  | 877  | 3901            | 2.9 | 1610   | 7162  |   |
| 900         | 274                                       | 0.088  | 131    | 0.512 | 13.0     | 1823 | 8108  | 987  | 4390            | 2.9 | 1764   | 7847  |   |
| 1000        | 305                                       | 0.093  | 139    | 0.528 | 13.4     | 2076 | 9236  | 1165 | 5182            | 2.9 | 2018   | 8220  |   |
| 1100        | 335                                       | 0.093  | 139    | 0.528 | 13.4     | 2456 | 10927 | 1282 | 5703            | 2.9 | 2261   | 10057 |   |
| 1200        | 366                                       | 0.093  | 139    | 0.528 | 13.4     | 2456 | 10927 | 1399 | 6223            | 2.9 | 2419   | 10760 |   |
| 1300        | 396                                       | 0.093  | 139    | 0.528 | 13.4     | 2710 | 12054 | 1516 | 6744            | 2.9 | 2632   | 11708 |   |
| 1400        | 427                                       | 0.093  | 139    | 0.528 | 13.4     | 2963 | 13182 | 1633 | 7264            | 2.9 | 2844   | 12651 |   |
| 1500        | 457                                       | 0.093  | 139    | 0.528 | 13.4     | 3090 | 13745 | 1750 | 7784            | 2.9 | 3029   | 13474 |   |
| 60 FIBERS   |                                           |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100         | 30                                        | 0.084  | 126    | 0.500 | 12.7     | 539  | 2398  | 106  | 472             | 2.3 | 244    | 1085  |   |
| 200         | 61                                        | 0.084  | 126    | 0.500 | 12.7     | 539  | 2398  | 211  | 939             | 2.8 | 412    | 1833  |   |
| 300         | 91                                        | 0.084  | 126    | 0.500 | 12.7     | 598  | 2661  | 317  | 1410            | 3.0 | 576    | 2562  |   |
| 400         | 122                                       | 0.085  | 126    | 0.500 | 12.7     | 776  | 3452  | 423  | 1882            | 3.0 | 764    | 3398  |   |
| 500         | 152                                       | 0.085  | 126    | 0.500 | 12.7     | 999  | 4444  | 528  | 2349            | 3.0 | 961    | 4275  |   |
| 600         | 183                                       | 0.089  | 132    | 0.512 | 13.0     | 1189 | 5290  | 664  | 2954            | 3.0 | 1174   | 5222  |   |
| 700         | 213                                       | 0.089  | 132    | 0.512 | 13.0     | 1379 | 6135  | 775  | 3447            | 3.0 | 1368   | 6085  |   |
| 800         | 244                                       | 0.089  | 132    | 0.512 | 13.0     | 1569 | 6981  | 886  | 3941            | 3.0 | 1562   | 6948  |   |
| 900         | 274                                       | 0.089  | 132    | 0.512 | 13.0     | 1823 | 8108  | 999  | 4444            | 2.9 | 1771   | 7878  |   |
| 1000        | 305                                       | 0.094  | 140    | 0.528 | 13.4     | 2076 | 9236  | 1178 | 5240            | 2.9 | 2030   | 9030  |   |
| 1100        | 335                                       | 0.094  | 140    | 0.528 | 13.4     | 2330 | 10363 | 1296 | 5765            | 2.9 | 2243   | 9977  |   |
| 1200        | 366                                       | 0.094  | 140    | 0.528 | 13.4     | 2456 | 10927 | 1414 | 6290            | 2.9 | 2429   | 10805 |   |
| 1300        | 396                                       | 0.094  | 140    | 0.528 | 13.4     | 2710 | 12054 | 1533 | 6819            | 2.9 | 2642   | 11752 |   |
| 1400        | 427                                       | 0.094  | 140    | 0.528 | 13.4     | 2963 | 13182 | 1652 | 7348            | 2.9 | 2856   | 12704 |   |
| 1500        | 457                                       | 0.094  | 140    | 0.528 | 13.4     | 3090 | 13745 | 1770 | 7873            | 2.9 | 3042   | 13531 |   |
| 72 FIBERS   |                                           |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100         | 30                                        | 0.100  | 148    | 0.535 | 13.6     | 854  | 3797  | 125  | 556             | 2.1 | 290    | 1290  |   |
| 200         | 61                                        | 0.100  | 148    | 0.535 | 13.6     | 854  | 3797  | 249  | 1108            | 2.5 | 489    | 2175  |   |
| 300         | 91                                        | 0.100  | 148    | 0.535 | 13.6     | 854  | 3797  | 374  | 1664            | 2.7 | 668    | 2971  |   |
| 400         | 122                                       | 0.100  | 148    | 0.535 | 13.6     | 854  | 3797  | 499  | 2220            | 2.9 | 836    | 3719  |   |
| 500         | 152                                       | 0.100  | 149    | 0.535 | 13.6     | 1061 | 4719  | 624  | 2776            | 2.9 | 1044   | 4644  |   |
| 600         | 183                                       | 0.108  | 161    | 0.559 | 14.2     | 1314 | 5843  | 813  | 3616            | 2.9 | 1310   | 5827  |   |
| 700         | 213                                       | 0.108  | 161    | 0.559 | 14.2     | 1567 | 6970  | 949  | 4221            | 2.9 | 1536   | 6832  |   |
| 800         | 244                                       | 0.108  | 161    | 0.559 | 14.2     | 1884 | 8380  | 1085 | 4826            | 2.8 | 1775   | 7896  |   |
| 900         | 274                                       | 0.109  | 161    | 0.559 | 14.2     | 2011 | 8943  | 1221 | 5431            | 2.9 | 1975   | 8785  |   |
| 1000        | 305                                       | 0.109  | 162    | 0.559 | 14.2     | 2264 | 10071 | 1357 | 6036            | 2.8 | 2201   | 9791  |   |
| 1100        | 335                                       | 0.109  | 162    | 0.559 | 14.2     | 2517 | 11198 | 1495 | 6650            | 2.8 | 2428   | 10800 |   |
| 1200        | 366                                       | 0.109  | 162    | 0.559 | 14.2     | 2644 | 11762 | 1631 | 7255            | 2.9 | 2628   | 11690 |   |
| 1300        | 396                                       | 0.109  | 162    | 0.559 | 14.2     | 2898 | 12889 | 1768 | 7864            | 2.9 | 2854   | 12695 |   |
| 1400        | 427                                       | 0.109  | 162    | 0.559 | 14.2     | 3151 | 14017 | 1905 | 8474            | 2.8 | 3080   | 13701 |   |
| 1500        | 457                                       | 0.115  | 171    | 0.575 | 14.6     | 3405 | 15144 | 2153 | 9577            | 2.8 | 3392   | 15088 |   |

\* Initial tension indicates tension before 10 year creep.

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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

### NESC MEDIUM LOADING @ 1% INSTALLATION SAG

| SPAN       |        | WEIGHT |       | DIAMETER |      | MRCL |       | INITIAL TENSION |       |        |      |       |
|------------|--------|--------|-------|----------|------|------|-------|-----------------|-------|--------|------|-------|
|            |        |        |       |          |      |      |       | UNLOADED        |       | LOADED |      |       |
| FEET       | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS  | N     | LBS             | N     | SAG %  | LBS  | N     |
| 84 FIBERS  |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.131  | 195   | 0.610    | 15.5 | 1296 | 5763  | 164             | 730   | 1.9    | 354  | 1575  |
| 200        | 61     | 0.131  | 195   | 0.610    | 15.5 | 1296 | 5763  | 328             | 1459  | 2.3    | 602  | 2678  |
| 300        | 91     | 0.131  | 195   | 0.610    | 15.5 | 1296 | 5763  | 492             | 2189  | 2.5    | 826  | 3674  |
| 400        | 122    | 0.131  | 195   | 0.610    | 15.5 | 1296 | 5763  | 656             | 2918  | 2.6    | 1037 | 4613  |
| 500        | 152    | 0.131  | 195   | 0.610    | 15.5 | 1296 | 5763  | 820             | 3648  | 2.7    | 1240 | 5516  |
| 600        | 183    | 0.131  | 195   | 0.610    | 15.5 | 1473 | 6554  | 984             | 4377  | 2.8    | 1473 | 6552  |
| 700        | 213    | 0.131  | 195   | 0.610    | 15.5 | 1756 | 7810  | 1149            | 5111  | 2.8    | 1726 | 7678  |
| 800        | 244    | 0.131  | 195   | 0.610    | 15.5 | 2009 | 8937  | 1313            | 5841  | 2.8    | 1973 | 8776  |
| 900        | 274    | 0.138  | 205   | 0.626    | 15.9 | 2326 | 10346 | 1552            | 6904  | 2.7    | 2291 | 10191 |
| 1000       | 305    | 0.138  | 205   | 0.626    | 15.9 | 2579 | 11474 | 1725            | 7673  | 2.7    | 2545 | 11321 |
| 1100       | 335    | 0.138  | 205   | 0.626    | 15.9 | 2833 | 12601 | 1898            | 8443  | 2.7    | 2799 | 12451 |
| 1200       | 366    | 0.138  | 206   | 0.626    | 15.9 | 3086 | 13728 | 2072            | 9217  | 2.7    | 3053 | 13580 |
| 1300       | 396    | 0.138  | 206   | 0.626    | 15.9 | 3340 | 14856 | 2245            | 9986  | 2.7    | 3307 | 14710 |
| 1400       | 427    | 0.138  | 206   | 0.626    | 15.9 | 3593 | 15983 | 2418            | 10756 | 2.7    | 3562 | 15845 |
| 1500       | 457    | 0.145  | 216   | 0.642    | 16.3 | 3973 | 17674 | 2716            | 12081 | 2.7    | 3938 | 17517 |
| 96 FIBERS  |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.132  | 197   | 0.610    | 15.5 | 1296 | 5763  | 165             | 734   | 1.9    | 354  | 1575  |
| 200        | 61     | 0.132  | 197   | 0.610    | 15.5 | 1296 | 5763  | 331             | 1472  | 2.3    | 604  | 2687  |
| 300        | 91     | 0.132  | 197   | 0.610    | 15.5 | 1296 | 5763  | 496             | 2206  | 2.5    | 829  | 3688  |
| 400        | 122    | 0.132  | 197   | 0.610    | 15.5 | 1296 | 5763  | 661             | 2940  | 2.6    | 1041 | 4631  |
| 500        | 152    | 0.132  | 197   | 0.610    | 15.5 | 1296 | 5763  | 827             | 3679  | 2.7    | 1245 | 5538  |
| 600        | 183    | 0.132  | 197   | 0.610    | 15.5 | 1503 | 6685  | 992             | 4413  | 2.8    | 1484 | 6601  |
| 700        | 213    | 0.132  | 197   | 0.610    | 15.5 | 1756 | 7810  | 1158            | 5151  | 2.8    | 1732 | 7704  |
| 800        | 244    | 0.132  | 197   | 0.610    | 15.5 | 2009 | 8937  | 1324            | 5889  | 2.8    | 1980 | 8807  |
| 900        | 274    | 0.139  | 207   | 0.626    | 15.9 | 2326 | 10346 | 1564            | 6957  | 2.7    | 2299 | 10226 |
| 1000       | 305    | 0.139  | 207   | 0.626    | 15.9 | 2706 | 12037 | 1739            | 7735  | 2.7    | 2577 | 11463 |
| 1100       | 335    | 0.139  | 207   | 0.626    | 15.9 | 2833 | 12601 | 1913            | 8509  | 2.7    | 2809 | 12495 |
| 1200       | 366    | 0.139  | 207   | 0.626    | 15.9 | 3086 | 13728 | 2088            | 9288  | 2.7    | 3064 | 13629 |
| 1300       | 396    | 0.139  | 207   | 0.626    | 15.9 | 3340 | 14856 | 2262            | 10062 | 2.7    | 3319 | 14764 |
| 1400       | 427    | 0.139  | 207   | 0.626    | 15.9 | 3593 | 15983 | 2437            | 10840 | 2.7    | 3574 | 15898 |
| 1500       | 457    | 0.146  | 217   | 0.642    | 16.3 | 3973 | 17674 | 2737            | 12175 | 2.7    | 3952 | 17579 |
| 108 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.170  | 254   | 0.685    | 17.4 | 2070 | 9207  | 213             | 947   | 1.8    | 436  | 1939  |
| 200        | 61     | 0.170  | 254   | 0.685    | 17.4 | 2070 | 9207  | 426             | 1895  | 2.0    | 748  | 3327  |
| 300        | 91     | 0.170  | 254   | 0.685    | 17.4 | 2070 | 9207  | 639             | 2842  | 2.2    | 1030 | 4582  |
| 400        | 122    | 0.170  | 254   | 0.685    | 17.4 | 2070 | 9207  | 852             | 3790  | 2.4    | 1297 | 5769  |
| 500        | 152    | 0.170  | 254   | 0.685    | 17.4 | 2070 | 9207  | 1065            | 4737  | 2.5    | 1554 | 6913  |
| 600        | 183    | 0.170  | 254   | 0.685    | 17.4 | 2070 | 9207  | 1278            | 5685  | 2.5    | 1805 | 8029  |
| 700        | 213    | 0.170  | 254   | 0.685    | 17.4 | 2070 | 9207  | 1491            | 6632  | 2.6    | 2050 | 9119  |
| 800        | 244    | 0.170  | 254   | 0.685    | 17.4 | 2340 | 10408 | 1704            | 7580  | 2.6    | 2339 | 10404 |
| 900        | 274    | 0.178  | 265   | 0.701    | 17.8 | 2720 | 12099 | 2000            | 8896  | 2.6    | 2713 | 12068 |
| 1000       | 305    | 0.178  | 265   | 0.701    | 17.8 | 3100 | 13790 | 2225            | 9897  | 2.6    | 3029 | 13474 |
| 1100       | 335    | 0.178  | 265   | 0.701    | 17.8 | 3354 | 14918 | 2448            | 10889 | 2.6    | 3323 | 14781 |
| 1200       | 366    | 0.178  | 265   | 0.701    | 17.8 | 3734 | 16609 | 2671            | 11881 | 2.6    | 3638 | 16183 |
| 1300       | 396    | 0.178  | 265   | 0.701    | 17.8 | 3987 | 17736 | 2894            | 12873 | 2.6    | 3933 | 17495 |
| 1400       | 427    | 0.186  | 276   | 0.717    | 18.2 | 4367 | 19427 | 3248            | 14448 | 2.6    | 4355 | 19372 |
| 1500       | 457    | 0.186  | 276   | 0.717    | 18.2 | 4748 | 21118 | 3481            | 15484 | 2.6    | 4678 | 20809 |

\* Initial tension indicates tension before 10 year creep.

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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

| M E D I U M | NESC MEDIUM LOADING @ 1% INSTALLATION SAG |        |        |       |          |      |       |      |                 |      |        |       |      |
|-------------|-------------------------------------------|--------|--------|-------|----------|------|-------|------|-----------------|------|--------|-------|------|
|             | SPAN                                      |        | WEIGHT |       | DIAMETER |      | MRCL  |      | INITIAL TENSION |      |        |       |      |
|             |                                           |        |        |       |          |      |       |      | UNLOADED        |      | LOADED |       |      |
|             | FEET                                      | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS   | N    | LBS             | N    | SAG %  | LBS   | N    |
|             | 120 FIBERS                                |        |        |       |          |      |       |      |                 |      |        |       |      |
|             | 100                                       | 30     | 0.171  | 255   | 0.685    | 17.4 | 2070  | 9207 | 214             | 952  | 1.8    | 437   | 1944 |
|             | 200                                       | 61     | 0.171  | 255   | 0.685    | 17.4 | 2070  | 9207 | 429             | 1908 | 2.0    | 749   | 3332 |
|             | 300                                       | 91     | 0.171  | 255   | 0.685    | 17.4 | 2070  | 9207 | 643             | 2860 | 2.2    | 1033  | 4595 |
|             | 400                                       | 122    | 0.171  | 255   | 0.685    | 17.4 | 2070  | 9207 | 857             | 3812 | 2.4    | 1301  | 5787 |
|             | 500                                       | 152    | 0.171  | 255   | 0.685    | 17.4 | 2070  | 9207 | 1072            | 4768 | 2.5    | 1559  | 6935 |
| 600         | 183                                       | 0.171  | 255    | 0.685 | 17.4     | 2070 | 9207  | 1286 | 5720            | 2.5  | 1810   | 8051  |      |
| 700         | 213                                       | 0.171  | 255    | 0.685 | 17.4     | 2070 | 9207  | 1501 | 6677            | 2.6  | 2057   | 9150  |      |
| 800         | 244                                       | 0.179  | 266    | 0.701 | 17.8     | 2467 | 10972 | 1788 | 7953            | 2.6  | 2427   | 10796 |      |
| 900         | 274                                       | 0.179  | 266    | 0.701 | 17.8     | 2783 | 12381 | 2012 | 8950            | 2.6  | 2732   | 12153 |      |
| 1000        | 305                                       | 0.179  | 266    | 0.701 | 17.8     | 3100 | 13790 | 2238 | 9955            | 2.6  | 3039   | 13518 |      |
| 1100        | 335                                       | 0.179  | 267    | 0.701 | 17.8     | 3354 | 14918 | 2463 | 10956           | 2.6  | 3334   | 14830 |      |
| 1200        | 366                                       | 0.179  | 267    | 0.701 | 17.8     | 3734 | 16609 | 2687 | 11952           | 2.6  | 3650   | 16236 |      |
| 1300        | 396                                       | 0.179  | 267    | 0.701 | 17.8     | 4114 | 18300 | 2912 | 12953           | 2.6  | 3966   | 17642 |      |
| 1400        | 427                                       | 0.187  | 278    | 0.717 | 18.2     | 4621 | 20554 | 3267 | 14532           | 2.5  | 4409   | 19612 |      |
| 1500        | 457                                       | 0.187  | 278    | 0.717 | 18.2     | 4748 | 21118 | 3501 | 15573           | 2.6  | 4693   | 20876 |      |
| 132 FIBERS  |                                           |        |        |       |          |      |       |      |                 |      |        |       |      |
| 100         | 30                                        | 0.208  | 310    | 0.764 | 19.4     | 2070 | 9207  | 260  | 1157            | 1.8  | 476    | 2117  |      |
| 200         | 61                                        | 0.208  | 310    | 0.764 | 19.4     | 2070 | 9207  | 520  | 2313            | 2.1  | 826    | 3674  |      |
| 300         | 91                                        | 0.208  | 310    | 0.764 | 19.4     | 2070 | 9207  | 780  | 3470            | 2.2  | 1146   | 5098  |      |
| 400         | 122                                       | 0.208  | 310    | 0.764 | 19.4     | 2070 | 9207  | 1040 | 4626            | 2.3  | 1451   | 6454  |      |
| 500         | 152                                       | 0.208  | 310    | 0.764 | 19.4     | 2070 | 9207  | 1300 | 5783            | 2.4  | 1748   | 7775  |      |
| 600         | 183                                       | 0.208  | 310    | 0.764 | 19.4     | 2070 | 9207  | 1560 | 6939            | 2.5  | 2038   | 9065  |      |
| 700         | 213                                       | 0.208  | 310    | 0.764 | 19.4     | 2467 | 10972 | 1821 | 8100            | 2.5  | 2386   | 10613 |      |
| 800         | 244                                       | 0.208  | 310    | 0.764 | 19.4     | 2720 | 12099 | 2081 | 9257            | 2.5  | 2712   | 12064 |      |
| 900         | 274                                       | 0.216  | 322    | 0.780 | 19.8     | 3227 | 14354 | 2433 | 10823           | 2.5  | 3153   | 14025 |      |
| 1000        | 305                                       | 0.216  | 322    | 0.780 | 19.8     | 3607 | 16045 | 2704 | 12028           | 2.5  | 3507   | 15600 |      |
| 1100        | 335                                       | 0.217  | 322    | 0.780 | 19.8     | 3860 | 17172 | 2978 | 13247           | 2.5  | 3844   | 17099 |      |
| 1200        | 366                                       | 0.217  | 322    | 0.780 | 19.8     | 4241 | 18863 | 3249 | 14452           | 2.5  | 4198   | 18674 |      |
| 1300        | 396                                       | 0.217  | 322    | 0.780 | 19.8     | 4621 | 20554 | 3521 | 15662           | 2.5  | 4553   | 20253 |      |
| 1400        | 427                                       | 0.217  | 323    | 0.780 | 19.8     | 5001 | 22246 | 3793 | 16872           | 2.5  | 4908   | 21832 |      |
| 1500        | 457                                       | 0.225  | 335    | 0.795 | 20.2     | 5508 | 24500 | 4220 | 18771           | 2.4  | 5411   | 24069 |      |
| 144 FIBERS  |                                           |        |        |       |          |      |       |      |                 |      |        |       |      |
| 100         | 30                                        | 0.209  | 311    | 0.764 | 19.4     | 2070 | 9207  | 261  | 1161            | 1.8  | 477    | 2122  |      |
| 200         | 61                                        | 0.209  | 311    | 0.764 | 19.4     | 2070 | 9207  | 523  | 2326            | 2.1  | 827    | 3679  |      |
| 300         | 91                                        | 0.209  | 311    | 0.764 | 19.4     | 2070 | 9207  | 784  | 3487            | 2.2  | 1149   | 5111  |      |
| 400         | 122                                       | 0.209  | 311    | 0.764 | 19.4     | 2070 | 9207  | 1046 | 4653            | 2.3  | 1455   | 6472  |      |
| 500         | 152                                       | 0.209  | 311    | 0.764 | 19.4     | 2070 | 9207  | 1307 | 5814            | 2.4  | 1753   | 7798  |      |
| 600         | 183                                       | 0.209  | 311    | 0.764 | 19.4     | 2070 | 9207  | 1568 | 6975            | 2.5  | 2044   | 9092  |      |
| 700         | 213                                       | 0.209  | 311    | 0.764 | 19.4     | 2467 | 10972 | 1830 | 8140            | 2.5  | 2393   | 10645 |      |
| 800         | 244                                       | 0.209  | 311    | 0.764 | 19.4     | 2783 | 12381 | 2093 | 9310            | 2.5  | 2730   | 12144 |      |
| 900         | 274                                       | 0.217  | 324    | 0.780 | 19.8     | 3227 | 14354 | 2446 | 10880           | 2.5  | 3162   | 14065 |      |
| 1000        | 305                                       | 0.217  | 324    | 0.780 | 19.8     | 3607 | 16045 | 2718 | 12090           | 2.5  | 3517   | 15644 |      |
| 1100        | 335                                       | 0.218  | 324    | 0.780 | 19.8     | 3860 | 17172 | 2993 | 13314           | 2.5  | 3855   | 17148 |      |
| 1200        | 366                                       | 0.218  | 324    | 0.780 | 19.8     | 4241 | 18863 | 3266 | 14528           | 2.5  | 4211   | 18731 |      |
| 1300        | 396                                       | 0.218  | 324    | 0.780 | 19.8     | 4621 | 20554 | 3539 | 15742           | 2.5  | 4566   | 20311 |      |
| 1400        | 427                                       | 0.218  | 324    | 0.780 | 19.8     | 5001 | 22246 | 3812 | 16957           | 2.5  | 4922   | 21894 |      |
| 1500        | 457                                       | 0.226  | 337    | 0.795 | 20.2     | 5508 | 24500 | 4241 | 18865           | 2.4  | 5427   | 24140 |      |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

### NESC MEDIUM LOADING @ 1% INSTALLATION SAG

| SPAN       |        | WEIGHT |       | DIAMETER |      | MRCL |       | INITIAL TENSION |       |        |      |       |
|------------|--------|--------|-------|----------|------|------|-------|-----------------|-------|--------|------|-------|
|            |        |        |       |          |      |      |       | UNLOADED        |       | LOADED |      |       |
| FEET       | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS  | N     | LBS             | N     | SAG %  | LBS  | N     |
| 216 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.202  | 301   | 0.780    | 19.8 | 854  | 3797  | 253             | 1125  | 2.1    | 394  | 1753  |
| 200        | 61     | 0.202  | 301   | 0.780    | 19.8 | 854  | 3797  | 505             | 2246  | 2.4    | 694  | 3087  |
| 300        | 91     | 0.202  | 301   | 0.780    | 19.8 | 1002 | 4455  | 758             | 3372  | 2.5    | 1000 | 4448  |
| 400        | 122    | 0.202  | 301   | 0.780    | 19.8 | 1377 | 6125  | 1011            | 4497  | 2.5    | 1341 | 5965  |
| 500        | 152    | 0.202  | 301   | 0.780    | 19.8 | 1884 | 8380  | 1264            | 5623  | 2.5    | 1701 | 7566  |
| 600        | 183    | 0.202  | 301   | 0.780    | 19.8 | 2011 | 8943  | 1518            | 6752  | 2.5    | 2003 | 8910  |
| 700        | 213    | 0.211  | 313   | 0.795    | 20.2 | 2517 | 11198 | 1843            | 8198  | 2.5    | 2423 | 10778 |
| 800        | 244    | 0.211  | 314   | 0.795    | 20.2 | 2771 | 12326 | 2107            | 9372  | 2.5    | 2754 | 12250 |
| 900        | 274    | 0.211  | 314   | 0.795    | 20.2 | 3151 | 14017 | 2371            | 10547 | 2.5    | 3104 | 13807 |
| 1000       | 305    | 0.211  | 314   | 0.795    | 20.2 | 3658 | 16271 | 2636            | 11726 | 2.5    | 3473 | 15449 |
| 1100       | 335    | 0.211  | 314   | 0.795    | 20.2 | 3785 | 16835 | 2899            | 12895 | 2.5    | 3784 | 16832 |
| 1200       | 366    | 0.219  | 326   | 0.811    | 20.6 | 4292 | 19090 | 3290            | 14635 | 2.5    | 4259 | 18945 |
| 1300       | 396    | 0.220  | 327   | 0.811    | 20.6 | 4689 | 20857 | 3570            | 15880 | 2.5    | 4624 | 20569 |
| 1400       | 427    | 0.220  | 327   | 0.811    | 20.6 | 5069 | 22548 | 3846            | 17108 | 2.5    | 4984 | 22170 |
| 1500       | 457    | 0.220  | 327   | 0.811    | 20.6 | 5576 | 24803 | 4125            | 18349 | 2.5    | 5364 | 23860 |
| 288 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.259  | 385   | 0.890    | 22.6 | 1296 | 5763  | 323             | 1439  | 2.0    | 488  | 2172  |
| 200        | 61     | 0.259  | 385   | 0.890    | 22.6 | 1296 | 5763  | 647             | 2878  | 2.2    | 866  | 3851  |
| 300        | 91     | 0.259  | 385   | 0.890    | 22.6 | 1296 | 5763  | 970             | 4317  | 2.4    | 1222 | 5437  |
| 400        | 122    | 0.259  | 385   | 0.890    | 22.6 | 1692 | 7528  | 1294            | 5757  | 2.4    | 1625 | 7229  |
| 500        | 152    | 0.259  | 385   | 0.890    | 22.6 | 2072 | 9219  | 1618            | 7198  | 2.4    | 2026 | 9013  |
| 600        | 183    | 0.259  | 385   | 0.890    | 22.6 | 2579 | 11474 | 1943            | 8641  | 2.4    | 2444 | 10872 |
| 700        | 213    | 0.259  | 386   | 0.890    | 22.6 | 2833 | 12601 | 2267            | 10083 | 2.4    | 2828 | 12580 |
| 800        | 244    | 0.259  | 386   | 0.890    | 22.6 | 3340 | 14856 | 2593            | 11534 | 2.4    | 3248 | 14447 |
| 900        | 274    | 0.269  | 400   | 0.906    | 23.0 | 3847 | 17111 | 3024            | 13450 | 2.4    | 3757 | 16710 |
| 1000       | 305    | 0.269  | 400   | 0.906    | 23.0 | 4227 | 18802 | 3360            | 14948 | 2.4    | 4168 | 18542 |
| 1100       | 335    | 0.269  | 400   | 0.906    | 23.0 | 4734 | 21056 | 3698            | 16448 | 2.4    | 4597 | 20450 |
| 1200       | 366    | 0.268  | 399   | 0.921    | 23.4 | 5069 | 22548 | 4019            | 17879 | 2.4    | 5002 | 22252 |
| 1300       | 396    | 0.268  | 399   | 0.921    | 23.4 | 5449 | 24239 | 4355            | 19373 | 2.4    | 5415 | 24085 |
| 1400       | 427    | 0.268  | 399   | 0.921    | 23.4 | 5829 | 25930 | 4692            | 20869 | 2.4    | 5827 | 25918 |
| 1500       | 457    | 0.267  | 397   | 0.921    | 23.4 | 6336 | 28185 | 5005            | 22265 | 2.4    | 6239 | 27750 |
| 432 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.298  | 444   | 0.953    | 24.2 | 1296 | 5763  | 373             | 1658  | 2.0    | 529  | 2355  |
| 200        | 61     | 0.298  | 444   | 0.953    | 24.2 | 1296 | 5763  | 745             | 3316  | 2.2    | 949  | 4221  |
| 300        | 91     | 0.298  | 444   | 0.953    | 24.2 | 1384 | 6158  | 1118            | 4974  | 2.3    | 1360 | 6050  |
| 400        | 122    | 0.298  | 444   | 0.953    | 24.2 | 1819 | 8091  | 1491            | 6634  | 2.3    | 1811 | 8054  |
| 500        | 152    | 0.298  | 444   | 0.953    | 24.2 | 2326 | 10346 | 1865            | 8295  | 2.3    | 2270 | 10098 |
| 600        | 183    | 0.298  | 444   | 0.953    | 24.2 | 2833 | 12601 | 2238            | 9957  | 2.3    | 2730 | 12143 |
| 700        | 213    | 0.299  | 444   | 0.953    | 24.2 | 3340 | 14856 | 2612            | 11620 | 2.3    | 3190 | 14188 |
| 800        | 244    | 0.309  | 459   | 0.969    | 24.6 | 3973 | 17674 | 3087            | 13732 | 2.3    | 3752 | 16689 |
| 900        | 274    | 0.309  | 459   | 0.969    | 24.6 | 4227 | 18802 | 3473            | 15451 | 2.3    | 4192 | 18648 |
| 1000       | 305    | 0.309  | 460   | 0.969    | 24.6 | 4734 | 21056 | 3861            | 17172 | 2.3    | 4663 | 20744 |
| 1100       | 335    | 0.320  | 476   | 0.984    | 25.0 | 5322 | 23675 | 4396            | 19554 | 2.3    | 5273 | 23456 |
| 1200       | 366    | 0.320  | 476   | 0.984    | 25.0 | 5829 | 25930 | 4797            | 21338 | 2.3    | 5756 | 25605 |
| 1300       | 396    | 0.319  | 474   | 0.984    | 25.0 | 6336 | 28185 | 5178            | 23032 | 2.3    | 6223 | 27683 |
| 1400       | 427    | 0.319  | 474   | 0.984    | 25.0 | 6716 | 29876 | 5577            | 24809 | 2.3    | 6690 | 29760 |
| 1500       | 457    | 0.319  | 474   | 0.984    | 25.0 | 7223 | 32131 | 5977            | 26589 | 2.3    | 7173 | 31906 |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

| H<br>E<br>A<br>V<br>Y | NESC HEAVY LOADING @ 1% INSTALLATION SAG |        |        |       |          |      |       |      |                 |     |        |       |   |
|-----------------------|------------------------------------------|--------|--------|-------|----------|------|-------|------|-----------------|-----|--------|-------|---|
|                       | SPAN                                     |        | WEIGHT |       | DIAMETER |      | MRCL  |      | INITIAL TENSION |     |        |       |   |
|                       |                                          |        |        |       |          |      |       |      | UNLOADED        |     | LOADED |       |   |
|                       | FEET                                     | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS   | N    | LBS             | N   | SAG %  | LBS   | N |
|                       | 12 FIBERS                                |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100                   | 30                                       | 0.080  | 119    | 0.500 | 12.7     | 539  | 2398  | 100  | 446             | 3.5 | 335    | 1492  |   |
| 200                   | 61                                       | 0.080  | 119    | 0.500 | 12.7     | 598  | 2661  | 201  | 892             | 4.1 | 569    | 2533  |   |
| 300                   | 91                                       | 0.080  | 119    | 0.500 | 12.7     | 936  | 4162  | 301  | 1339            | 4.1 | 864    | 3844  |   |
| 400                   | 122                                      | 0.084  | 125    | 0.512 | 13.0     | 1189 | 5290  | 421  | 1875            | 4.2 | 1152   | 5125  |   |
| 500                   | 152                                      | 0.084  | 126    | 0.512 | 13.0     | 1506 | 6699  | 527  | 2345            | 4.1 | 1445   | 6429  |   |
| 600                   | 183                                      | 0.085  | 126    | 0.512 | 13.0     | 1823 | 8108  | 634  | 2821            | 4.1 | 1739   | 7737  |   |
| 700                   | 213                                      | 0.090  | 134    | 0.528 | 13.4     | 2076 | 9236  | 788  | 3503            | 4.1 | 2052   | 9127  |   |
| 800                   | 244                                      | 0.090  | 134    | 0.528 | 13.4     | 2456 | 10927 | 901  | 4006            | 4.1 | 2367   | 10530 |   |
| 900                   | 274                                      | 0.090  | 134    | 0.528 | 13.4     | 2710 | 12054 | 1014 | 4509            | 4.1 | 2649   | 11785 |   |
| 1000                  | 305                                      | 0.090  | 134    | 0.528 | 13.4     | 2963 | 13182 | 1127 | 5012            | 4.1 | 2931   | 13040 |   |
| 1100                  | 335                                      | 0.093  | 138    | 0.535 | 13.6     | 3344 | 14873 | 1278 | 5687            | 4.1 | 3276   | 14572 |   |
| 1200                  | 366                                      | 0.093  | 138    | 0.535 | 13.6     | 3597 | 16000 | 1395 | 6207            | 4.1 | 3561   | 15839 |   |
| 1300                  | 396                                      | 0.102  | 151    | 0.559 | 14.2     | 4104 | 18255 | 1652 | 7349            | 4.1 | 4017   | 17869 |   |
| 1400                  | 427                                      | 0.102  | 152    | 0.559 | 14.2     | 4309 | 19166 | 1783 | 7933            | 4.1 | 4300   | 19125 |   |
| 1500                  | 457                                      | 0.102  | 152    | 0.559 | 14.2     | 4689 | 20857 | 1915 | 8517            | 4.1 | 4628   | 20585 |   |
| 24 FIBERS             |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100                   | 30                                       | 0.081  | 121    | 0.500 | 12.7     | 539  | 2398  | 102  | 452             | 3.5 | 336    | 1495  |   |
| 200                   | 61                                       | 0.081  | 121    | 0.500 | 12.7     | 598  | 2661  | 203  | 904             | 4.1 | 571    | 2539  |   |
| 300                   | 91                                       | 0.081  | 121    | 0.500 | 12.7     | 936  | 4162  | 305  | 1357            | 4.1 | 866    | 3853  |   |
| 400                   | 122                                      | 0.085  | 127    | 0.512 | 13.0     | 1189 | 5290  | 427  | 1898            | 4.1 | 1155   | 5137  |   |
| 500                   | 152                                      | 0.085  | 127    | 0.512 | 13.0     | 1506 | 6699  | 534  | 2374            | 4.1 | 1449   | 6445  |   |
| 600                   | 183                                      | 0.086  | 127    | 0.512 | 13.0     | 1823 | 8108  | 642  | 2856            | 4.1 | 1743   | 7755  |   |
| 700                   | 213                                      | 0.091  | 136    | 0.528 | 13.4     | 2076 | 9236  | 797  | 3545            | 4.1 | 2057   | 9149  |   |
| 800                   | 244                                      | 0.091  | 136    | 0.528 | 13.4     | 2456 | 10927 | 911  | 4054            | 4.1 | 2373   | 10555 |   |
| 900                   | 274                                      | 0.091  | 136    | 0.528 | 13.4     | 2837 | 12618 | 1026 | 4563            | 4.1 | 2689   | 11960 |   |
| 1000                  | 305                                      | 0.091  | 136    | 0.528 | 13.4     | 2963 | 13182 | 1140 | 5071            | 4.1 | 2938   | 13071 |   |
| 1100                  | 335                                      | 0.094  | 140    | 0.535 | 13.6     | 3344 | 14873 | 1293 | 5752            | 4.1 | 3284   | 14606 |   |
| 1200                  | 366                                      | 0.094  | 140    | 0.535 | 13.6     | 3724 | 16564 | 1411 | 6278            | 4.1 | 3602   | 16025 |   |
| 1300                  | 396                                      | 0.103  | 153    | 0.559 | 14.2     | 4231 | 18819 | 1670 | 7427            | 4.0 | 4059   | 18055 |   |
| 1400                  | 427                                      | 0.103  | 153    | 0.559 | 14.2     | 4435 | 19729 | 1802 | 8017            | 4.1 | 4343   | 19317 |   |
| 1500                  | 457                                      | 0.103  | 154    | 0.559 | 14.2     | 4689 | 20857 | 1935 | 8605            | 4.1 | 4638   | 20633 |   |
| 36 FIBERS             |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100                   | 30                                       | 0.082  | 123    | 0.500 | 12.7     | 539  | 2398  | 103  | 458             | 3.5 | 337    | 1499  |   |
| 200                   | 61                                       | 0.082  | 123    | 0.500 | 12.7     | 598  | 2661  | 206  | 916             | 4.1 | 572    | 2544  |   |
| 300                   | 91                                       | 0.082  | 123    | 0.500 | 12.7     | 936  | 4162  | 309  | 1375            | 4.1 | 868    | 3861  |   |
| 400                   | 122                                      | 0.086  | 129    | 0.512 | 13.0     | 1189 | 5290  | 432  | 1922            | 4.1 | 1158   | 5151  |   |
| 500                   | 152                                      | 0.086  | 129    | 0.512 | 13.0     | 1506 | 6699  | 540  | 2402            | 4.1 | 1452   | 6459  |   |
| 600                   | 183                                      | 0.087  | 129    | 0.512 | 13.0     | 1823 | 8108  | 650  | 2891            | 4.1 | 1748   | 7775  |   |
| 700                   | 213                                      | 0.092  | 137    | 0.528 | 13.4     | 2076 | 9236  | 806  | 3585            | 4.1 | 2062   | 9172  |   |
| 800                   | 244                                      | 0.092  | 137    | 0.528 | 13.4     | 2456 | 10927 | 922  | 4101            | 4.1 | 2379   | 10582 |   |
| 900                   | 274                                      | 0.092  | 137    | 0.528 | 13.4     | 2710 | 12054 | 1038 | 4617            | 4.1 | 2662   | 11841 |   |
| 1000                  | 305                                      | 0.092  | 137    | 0.528 | 13.4     | 3090 | 13745 | 1154 | 5133            | 4.1 | 2979   | 13251 |   |
| 1100                  | 335                                      | 0.095  | 142    | 0.535 | 13.6     | 3470 | 15436 | 1308 | 5818            | 4.1 | 3324   | 14786 |   |
| 1200                  | 366                                      | 0.095  | 142    | 0.535 | 13.6     | 3597 | 16000 | 1427 | 6348            | 4.1 | 3578   | 15916 |   |
| 1300                  | 396                                      | 0.104  | 154    | 0.559 | 14.2     | 4104 | 18255 | 1687 | 7504            | 4.1 | 4036   | 17953 |   |
| 1400                  | 427                                      | 0.104  | 155    | 0.559 | 14.2     | 4435 | 19729 | 1821 | 8100            | 4.1 | 4353   | 19363 |   |
| 1500                  | 457                                      | 0.104  | 155    | 0.559 | 14.2     | 4689 | 20857 | 1954 | 8692            | 4.1 | 4649   | 20680 |   |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

### NESC HEAVY LOADING @ 1% INSTALLATION SAG

| SPAN      |        | WEIGHT |       | DIAMETER |      | MRCL |       | INITIAL TENSION |       |        |      |       |
|-----------|--------|--------|-------|----------|------|------|-------|-----------------|-------|--------|------|-------|
|           |        |        |       |          |      |      |       | UNLOADED        |       | LOADED |      |       |
| FEET      | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS  | N     | LBS             | N     | SAG %  | LBS  | N     |
| 48 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100       | 30     | 0.083  | 124   | 0.500    | 12.7 | 539  | 2398  | 104             | 463   | 3.5    | 338  | 1503  |
| 200       | 61     | 0.083  | 124   | 0.500    | 12.7 | 598  | 2661  | 209             | 930   | 4.1    | 574  | 2553  |
| 300       | 91     | 0.083  | 124   | 0.500    | 12.7 | 936  | 4162  | 313             | 1392  | 4.1    | 870  | 3870  |
| 400       | 122    | 0.087  | 130   | 0.512    | 13.0 | 1189 | 5290  | 437             | 1944  | 4.1    | 1160 | 5160  |
| 500       | 152    | 0.088  | 130   | 0.512    | 13.0 | 1506 | 6699  | 547             | 2433  | 4.1    | 1456 | 6477  |
| 600       | 183    | 0.088  | 131   | 0.512    | 13.0 | 1823 | 8108  | 658             | 2927  | 4.1    | 1752 | 7793  |
| 700       | 213    | 0.093  | 139   | 0.528    | 13.4 | 2076 | 9236  | 815             | 3625  | 4.1    | 2067 | 9194  |
| 800       | 244    | 0.093  | 139   | 0.528    | 13.4 | 2456 | 10927 | 932             | 4146  | 4.1    | 2384 | 10605 |
| 900       | 274    | 0.093  | 139   | 0.528    | 13.4 | 2710 | 12054 | 1049            | 4666  | 4.1    | 2668 | 11868 |
| 1000      | 305    | 0.093  | 139   | 0.528    | 13.4 | 3090 | 13745 | 1167            | 5191  | 4.1    | 2986 | 13282 |
| 1100      | 335    | 0.096  | 143   | 0.535    | 13.6 | 3470 | 15436 | 1322            | 5881  | 4.1    | 3332 | 14821 |
| 1200      | 366    | 0.096  | 143   | 0.535    | 13.6 | 3724 | 16564 | 1443            | 6419  | 4.1    | 3620 | 16103 |
| 1300      | 396    | 0.105  | 156   | 0.559    | 14.2 | 4104 | 18255 | 1704            | 7580  | 4.1    | 4045 | 17993 |
| 1400      | 427    | 0.105  | 156   | 0.559    | 14.2 | 4435 | 19729 | 1839            | 8180  | 4.1    | 4363 | 19408 |
| 1500      | 457    | 0.105  | 157   | 0.559    | 14.2 | 4689 | 20857 | 1974            | 8781  | 4.1    | 4660 | 20729 |
| 60 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100       | 30     | 0.084  | 126   | 0.500    | 12.7 | 539  | 2398  | 106             | 472   | 3.5    | 338  | 1503  |
| 200       | 61     | 0.084  | 126   | 0.500    | 12.7 | 598  | 2661  | 211             | 939   | 4.1    | 575  | 2558  |
| 300       | 91     | 0.085  | 126   | 0.500    | 12.7 | 936  | 4162  | 317             | 1410  | 4.1    | 872  | 3879  |
| 400       | 122    | 0.089  | 132   | 0.512    | 13.0 | 1189 | 5290  | 443             | 1971  | 4.1    | 1163 | 5173  |
| 500       | 152    | 0.089  | 132   | 0.512    | 13.0 | 1569 | 6981  | 554             | 2464  | 4.1    | 1476 | 6566  |
| 600       | 183    | 0.089  | 132   | 0.512    | 13.0 | 1823 | 8108  | 666             | 2963  | 4.1    | 1756 | 7811  |
| 700       | 213    | 0.094  | 140   | 0.528    | 13.4 | 2076 | 9236  | 825             | 3670  | 4.1    | 2072 | 9217  |
| 800       | 244    | 0.094  | 140   | 0.528    | 13.4 | 2456 | 10927 | 943             | 4195  | 4.1    | 2390 | 10631 |
| 900       | 274    | 0.094  | 140   | 0.528    | 13.4 | 2710 | 12054 | 1061            | 4720  | 4.1    | 2675 | 11899 |
| 1000      | 305    | 0.094  | 140   | 0.528    | 13.4 | 2963 | 13182 | 1180            | 5249  | 4.1    | 2960 | 13167 |
| 1100      | 335    | 0.097  | 145   | 0.535    | 13.6 | 3344 | 14873 | 1337            | 5947  | 4.1    | 3307 | 14710 |
| 1200      | 366    | 0.097  | 145   | 0.535    | 13.6 | 3597 | 16000 | 1459            | 6490  | 4.1    | 3595 | 15991 |
| 1300      | 396    | 0.106  | 158   | 0.559    | 14.2 | 4104 | 18255 | 1721            | 7655  | 4.1    | 4055 | 18038 |
| 1400      | 427    | 0.106  | 158   | 0.559    | 14.2 | 4435 | 19729 | 1858            | 8265  | 4.0    | 4373 | 19452 |
| 1500      | 457    | 0.106  | 158   | 0.559    | 14.2 | 4689 | 20857 | 1994            | 8870  | 4.1    | 4671 | 20778 |
| 72 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100       | 30     | 0.100  | 148   | 0.535    | 13.6 | 854  | 3797  | 125             | 556   | 3.1    | 400  | 1779  |
| 200       | 61     | 0.100  | 148   | 0.535    | 13.6 | 854  | 3797  | 249             | 1108  | 3.7    | 662  | 2945  |
| 300       | 91     | 0.100  | 148   | 0.535    | 13.6 | 913  | 4060  | 374             | 1664  | 4.1    | 907  | 4035  |
| 400       | 122    | 0.108  | 161   | 0.559    | 14.2 | 1314 | 5843  | 542             | 2411  | 4.0    | 1267 | 5636  |
| 500       | 152    | 0.108  | 161   | 0.559    | 14.2 | 1567 | 6970  | 678             | 3016  | 4.0    | 1565 | 6961  |
| 600       | 183    | 0.108  | 161   | 0.559    | 14.2 | 1884 | 8380  | 814             | 3621  | 4.0    | 1879 | 8358  |
| 700       | 213    | 0.109  | 162   | 0.559    | 14.2 | 2264 | 10071 | 950             | 4226  | 4.0    | 2210 | 9831  |
| 800       | 244    | 0.109  | 162   | 0.559    | 14.2 | 2644 | 11762 | 1088            | 4840  | 4.0    | 2541 | 11303 |
| 900       | 274    | 0.109  | 162   | 0.559    | 14.2 | 2898 | 12889 | 1224            | 5445  | 4.0    | 2839 | 12629 |
| 1000      | 305    | 0.109  | 162   | 0.559    | 14.2 | 3151 | 14017 | 1361            | 6054  | 4.0    | 3138 | 13959 |
| 1100      | 335    | 0.115  | 171   | 0.575    | 14.6 | 3531 | 15708 | 1579            | 7024  | 4.0    | 3531 | 15707 |
| 1200      | 366    | 0.115  | 171   | 0.575    | 14.6 | 3911 | 17399 | 1723            | 7664  | 4.0    | 3867 | 17201 |
| 1300      | 396    | 0.115  | 171   | 0.575    | 14.6 | 4292 | 19090 | 1870            | 8318  | 4.0    | 4205 | 18705 |
| 1400      | 427    | 0.115  | 171   | 0.575    | 14.6 | 4545 | 20217 | 2015            | 8963  | 4.0    | 4509 | 20057 |
| 1500      | 457    | 0.123  | 183   | 0.594    | 15.1 | 5069 | 22548 | 2308            | 10266 | 3.9    | 4994 | 22214 |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

| H<br>E<br>A<br>V<br>Y | NESC HEAVY LOADING @ 1% INSTALLATION SAG |        |        |       |          |      |       |      |                 |     |        |       |   |
|-----------------------|------------------------------------------|--------|--------|-------|----------|------|-------|------|-----------------|-----|--------|-------|---|
|                       | SPAN                                     |        | WEIGHT |       | DIAMETER |      | MRCL  |      | INITIAL TENSION |     |        |       |   |
|                       |                                          |        |        |       |          |      |       |      | UNLOADED        |     | LOADED |       |   |
|                       | FEET                                     | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS   | N    | LBS             | N   | SAG %  | LBS   | N |
|                       | 84 FIBERS                                |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100                   | 30                                       | 0.131  | 195    | 0.610 | 15.5     | 1296 | 5763  | 164  | 730             | 2.8 | 483    | 2148  |   |
| 200                   | 61                                       | 0.131  | 195    | 0.610 | 15.5     | 1296 | 5763  | 328  | 1459            | 3.3 | 803    | 3572  |   |
| 300                   | 91                                       | 0.131  | 195    | 0.610 | 15.5     | 1296 | 5763  | 492  | 2189            | 3.7 | 1085   | 4826  |   |
| 400                   | 122                                      | 0.131  | 195    | 0.610 | 15.5     | 1384 | 6158  | 656  | 2918            | 3.9 | 1369   | 6090  |   |
| 500                   | 152                                      | 0.131  | 195    | 0.610 | 15.5     | 1756 | 7810  | 821  | 3652            | 3.9 | 1718   | 7642  |   |
| 600                   | 183                                      | 0.131  | 195    | 0.610 | 15.5     | 2072 | 9219  | 985  | 4381            | 3.9 | 2053   | 9132  |   |
| 700                   | 213                                      | 0.138  | 205    | 0.626 | 15.9     | 2453 | 10910 | 1208 | 5373            | 3.9 | 2448   | 10889 |   |
| 800                   | 244                                      | 0.138  | 205    | 0.626 | 15.9     | 2833 | 12601 | 1381 | 6143            | 3.9 | 2806   | 12482 |   |
| 900                   | 274                                      | 0.138  | 206    | 0.626 | 15.9     | 3213 | 14292 | 1554 | 6913            | 3.9 | 3163   | 14070 |   |
| 1000                  | 305                                      | 0.138  | 206    | 0.626 | 15.9     | 3593 | 15983 | 1727 | 7682            | 3.9 | 3521   | 15662 |   |
| 1100                  | 335                                      | 0.145  | 216    | 0.642 | 16.3     | 3973 | 17674 | 1992 | 8861            | 3.9 | 3948   | 17562 |   |
| 1200                  | 366                                      | 0.145  | 216    | 0.642 | 16.3     | 4354 | 19365 | 2174 | 9670            | 3.8 | 4312   | 19181 |   |
| 1300                  | 396                                      | 0.145  | 216    | 0.642 | 16.3     | 4734 | 21056 | 2356 | 10480           | 3.8 | 4676   | 20800 |   |
| 1400                  | 427                                      | 0.148  | 220    | 0.661 | 16.8     | 5196 | 23112 | 2587 | 11508           | 3.8 | 5115   | 22753 |   |
| 1500                  | 457                                      | 0.148  | 220    | 0.661 | 16.8     | 5576 | 24803 | 2773 | 12335           | 3.8 | 5483   | 24390 |   |
| 96 FIBERS             |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100                   | 30                                       | 0.132  | 197    | 0.610 | 15.5     | 1296 | 5763  | 165  | 734             | 2.8 | 483    | 2148  |   |
| 200                   | 61                                       | 0.132  | 197    | 0.610 | 15.5     | 1296 | 5763  | 331  | 1472            | 3.3 | 805    | 3581  |   |
| 300                   | 91                                       | 0.132  | 197    | 0.610 | 15.5     | 1296 | 5763  | 496  | 2206            | 3.7 | 1088   | 4840  |   |
| 400                   | 122                                      | 0.132  | 197    | 0.610 | 15.5     | 1384 | 6158  | 662  | 2945            | 3.9 | 1372   | 6103  |   |
| 500                   | 152                                      | 0.132  | 197    | 0.610 | 15.5     | 1756 | 7810  | 827  | 3679            | 3.9 | 1722   | 7660  |   |
| 600                   | 183                                      | 0.132  | 197    | 0.610 | 15.5     | 2072 | 9219  | 993  | 4417            | 3.9 | 2058   | 9154  |   |
| 700                   | 213                                      | 0.139  | 207    | 0.626 | 15.9     | 2579 | 11474 | 1217 | 5413            | 3.8 | 2484   | 11049 |   |
| 800                   | 244                                      | 0.139  | 207    | 0.626 | 15.9     | 2833 | 12601 | 1391 | 6187            | 3.9 | 2812   | 12508 |   |
| 900                   | 274                                      | 0.139  | 207    | 0.626 | 15.9     | 3213 | 14292 | 1566 | 6966            | 3.9 | 3170   | 14101 |   |
| 1000                  | 305                                      | 0.139  | 207    | 0.626 | 15.9     | 3593 | 15983 | 1741 | 7744            | 3.9 | 3528   | 15693 |   |
| 1100                  | 335                                      | 0.146  | 217    | 0.642 | 16.3     | 3973 | 17674 | 2007 | 8928            | 3.8 | 3957   | 17602 |   |
| 1200                  | 366                                      | 0.146  | 217    | 0.642 | 16.3     | 4480 | 19929 | 2191 | 9746            | 3.8 | 4352   | 19359 |   |
| 1300                  | 396                                      | 0.146  | 217    | 0.642 | 16.3     | 4734 | 21056 | 2374 | 10560           | 3.8 | 4686   | 20844 |   |
| 1400                  | 427                                      | 0.149  | 222    | 0.661 | 16.8     | 5196 | 23112 | 2606 | 11592           | 3.8 | 5126   | 22802 |   |
| 1500                  | 457                                      | 0.149  | 222    | 0.661 | 16.8     | 5576 | 24803 | 2793 | 12424           | 3.8 | 5495   | 24443 |   |
| 108 FIBERS            |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100                   | 30                                       | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 213  | 947             | 2.5 | 589    | 2620  |   |
| 200                   | 61                                       | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 426  | 1895            | 2.9 | 986    | 4386  |   |
| 300                   | 91                                       | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 639  | 2842            | 3.3 | 1337   | 5947  |   |
| 400                   | 122                                      | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 852  | 3790            | 3.5 | 1662   | 7393  |   |
| 500                   | 152                                      | 0.170  | 254    | 0.685 | 17.4     | 2070 | 9207  | 1065 | 4737            | 3.7 | 1972   | 8772  |   |
| 600                   | 183                                      | 0.170  | 254    | 0.685 | 17.4     | 2340 | 10408 | 1278 | 5685            | 3.7 | 2334   | 10382 |   |
| 700                   | 213                                      | 0.178  | 265    | 0.701 | 17.8     | 2847 | 12663 | 1556 | 6921            | 3.7 | 2799   | 12451 |   |
| 800                   | 244                                      | 0.178  | 265    | 0.701 | 17.8     | 3227 | 14354 | 1780 | 7918            | 3.7 | 3195   | 14212 |   |
| 900                   | 274                                      | 0.178  | 265    | 0.701 | 17.8     | 3607 | 16045 | 2003 | 8910            | 3.7 | 3589   | 15965 |   |
| 1000                  | 305                                      | 0.178  | 265    | 0.701 | 17.8     | 3987 | 17736 | 2226 | 9902            | 3.7 | 3984   | 17722 |   |
| 1100                  | 335                                      | 0.186  | 276    | 0.717 | 18.2     | 4494 | 19991 | 2552 | 11352           | 3.7 | 4487   | 19959 |   |
| 1200                  | 366                                      | 0.186  | 276    | 0.717 | 18.2     | 5001 | 22246 | 2785 | 12388           | 3.7 | 4917   | 21872 |   |
| 1300                  | 396                                      | 0.186  | 276    | 0.717 | 18.2     | 5381 | 23937 | 3019 | 13429           | 3.7 | 5320   | 23665 |   |
| 1400                  | 427                                      | 0.186  | 277    | 0.717 | 18.2     | 5761 | 25628 | 3252 | 14466           | 3.7 | 5722   | 25453 |   |
| 1500                  | 457                                      | 0.188  | 279    | 0.748 | 19.0     | 6336 | 28185 | 3518 | 15649           | 3.7 | 6235   | 27735 |   |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

### NESC HEAVY LOADING @ 1% INSTALLATION SAG

| SPAN       |        | WEIGHT |       | DIAMETER |      | MRCL |       | INITIAL TENSION |       |        |      |       |
|------------|--------|--------|-------|----------|------|------|-------|-----------------|-------|--------|------|-------|
|            |        |        |       |          |      |      |       | UNLOADED        |       | LOADED |      |       |
| FEET       | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS  | N     | LBS             | N     | SAG %  | LBS  | N     |
| 120 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 214             | 952   | 2.5    | 590  | 2624  |
| 200        | 61     | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 429             | 1908  | 2.9    | 988  | 4395  |
| 300        | 91     | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 643             | 2860  | 3.3    | 1339 | 5956  |
| 400        | 122    | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 857             | 3812  | 3.5    | 1666 | 7411  |
| 500        | 152    | 0.171  | 255   | 0.685    | 17.4 | 2070 | 9207  | 1072            | 4768  | 3.7    | 1976 | 8790  |
| 600        | 183    | 0.172  | 255   | 0.685    | 17.4 | 2340 | 10408 | 1287            | 5725  | 3.7    | 2339 | 10404 |
| 700        | 213    | 0.179  | 266   | 0.701    | 17.8 | 2847 | 12663 | 1565            | 6961  | 3.7    | 2805 | 12477 |
| 800        | 244    | 0.179  | 266   | 0.701    | 17.8 | 3227 | 14354 | 1791            | 7967  | 3.7    | 3201 | 14239 |
| 900        | 274    | 0.179  | 267   | 0.701    | 17.8 | 3607 | 16045 | 2015            | 8963  | 3.7    | 3597 | 16000 |
| 1000       | 305    | 0.179  | 267   | 0.701    | 17.8 | 4114 | 18300 | 2240            | 9964  | 3.7    | 4021 | 17886 |
| 1100       | 335    | 0.187  | 278   | 0.717    | 18.2 | 4621 | 20554 | 2567            | 11419 | 3.6    | 4524 | 20124 |
| 1200       | 366    | 0.187  | 278   | 0.717    | 18.2 | 5001 | 22246 | 2802            | 12464 | 3.6    | 4928 | 21921 |
| 1300       | 396    | 0.187  | 278   | 0.717    | 18.2 | 5381 | 23937 | 3036            | 13505 | 3.7    | 5331 | 23713 |
| 1400       | 427    | 0.187  | 278   | 0.717    | 18.2 | 5761 | 25628 | 3271            | 14550 | 3.7    | 5734 | 25506 |
| 1500       | 457    | 0.189  | 281   | 0.748    | 19.0 | 6336 | 28185 | 3539            | 15742 | 3.7    | 6247 | 27788 |
| 132 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 260             | 1157  | 2.5    | 631  | 2807  |
| 200        | 61     | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 520             | 2313  | 2.9    | 1064 | 4733  |
| 300        | 91     | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 780             | 3470  | 3.2    | 1450 | 6450  |
| 400        | 122    | 0.208  | 310   | 0.764    | 19.4 | 2070 | 9207  | 1040            | 4626  | 3.5    | 1811 | 8056  |
| 500        | 152    | 0.208  | 310   | 0.764    | 19.4 | 2188 | 9734  | 1300            | 5783  | 3.6    | 2183 | 9710  |
| 600        | 183    | 0.208  | 310   | 0.764    | 19.4 | 2657 | 11817 | 1561            | 6944  | 3.6    | 2626 | 11681 |
| 700        | 213    | 0.216  | 322   | 0.780    | 19.8 | 3227 | 14354 | 1893            | 8420  | 3.5    | 3147 | 13999 |
| 800        | 244    | 0.216  | 322   | 0.780    | 19.8 | 3607 | 16045 | 2164            | 9626  | 3.5    | 3580 | 15925 |
| 900        | 274    | 0.217  | 322   | 0.780    | 19.8 | 4114 | 18300 | 2437            | 10840 | 3.5    | 4041 | 17975 |
| 1000       | 305    | 0.217  | 322   | 0.780    | 19.8 | 4494 | 19991 | 2708            | 12046 | 3.5    | 4474 | 19901 |
| 1100       | 335    | 0.217  | 323   | 0.780    | 19.8 | 5001 | 22246 | 2980            | 13256 | 3.5    | 4935 | 21952 |
| 1200       | 366    | 0.225  | 335   | 0.795    | 20.2 | 5508 | 24500 | 3376            | 15017 | 3.5    | 5493 | 24434 |
| 1300       | 396    | 0.221  | 328   | 0.811    | 20.6 | 5956 | 26494 | 3584            | 15942 | 3.5    | 5921 | 26338 |
| 1400       | 427    | 0.220  | 327   | 0.811    | 20.6 | 6463 | 28749 | 3844            | 17099 | 3.5    | 6377 | 28366 |
| 1500       | 457    | 0.220  | 327   | 0.811    | 20.6 | 6843 | 30440 | 4120            | 18327 | 3.6    | 6816 | 30319 |
| 144 FIBERS |        |        |       |          |      |      |       |                 |       |        |      |       |
| 100        | 30     | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 261             | 1161  | 2.5    | 632  | 2811  |
| 200        | 61     | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 523             | 2326  | 2.9    | 1065 | 4737  |
| 300        | 91     | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 784             | 3487  | 3.2    | 1452 | 6459  |
| 400        | 122    | 0.209  | 311   | 0.764    | 19.4 | 2070 | 9207  | 1046            | 4653  | 3.4    | 1815 | 8074  |
| 500        | 152    | 0.209  | 311   | 0.764    | 19.4 | 2188 | 9734  | 1307            | 5814  | 3.6    | 2187 | 9728  |
| 600        | 183    | 0.209  | 311   | 0.764    | 19.4 | 2657 | 11817 | 1569            | 6979  | 3.6    | 2631 | 11703 |
| 700        | 213    | 0.217  | 324   | 0.780    | 19.8 | 3227 | 14354 | 1902            | 8461  | 3.5    | 3153 | 14025 |
| 800        | 244    | 0.217  | 324   | 0.780    | 19.8 | 3607 | 16045 | 2175            | 9675  | 3.5    | 3587 | 15956 |
| 900        | 274    | 0.218  | 324   | 0.780    | 19.8 | 4114 | 18300 | 2449            | 10894 | 3.5    | 4049 | 18011 |
| 1000       | 305    | 0.218  | 324   | 0.780    | 19.8 | 4494 | 19991 | 2722            | 12108 | 3.5    | 4483 | 19941 |
| 1100       | 335    | 0.218  | 324   | 0.780    | 19.8 | 5001 | 22246 | 2995            | 13322 | 3.5    | 4944 | 21992 |
| 1200       | 366    | 0.226  | 337   | 0.795    | 20.2 | 5508 | 24500 | 3392            | 15088 | 3.5    | 5504 | 24483 |
| 1300       | 396    | 0.222  | 330   | 0.811    | 20.6 | 6083 | 27057 | 3602            | 16022 | 3.5    | 5960 | 26511 |
| 1400       | 427    | 0.221  | 329   | 0.811    | 20.6 | 6463 | 28749 | 3863            | 17183 | 3.5    | 6389 | 28420 |
| 1500       | 457    | 0.221  | 329   | 0.811    | 20.6 | 6843 | 30440 | 4141            | 18420 | 3.6    | 6829 | 30377 |

\* Initial tension indicates tension before 10 year creep.

continued  
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## All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

| H<br>E<br>A<br>V<br>Y | NESC HEAVY LOADING @ 1% INSTALLATION SAG |        |        |       |          |      |       |      |                 |     |        |       |   |
|-----------------------|------------------------------------------|--------|--------|-------|----------|------|-------|------|-----------------|-----|--------|-------|---|
|                       | SPAN                                     |        | WEIGHT |       | DIAMETER |      | MRCL  |      | INITIAL TENSION |     |        |       |   |
|                       |                                          |        |        |       |          |      |       |      | UNLOADED        |     | LOADED |       |   |
|                       | FEET                                     | METERS | LBS/FT | KG/KM | INCHES   | MM   | LBS   | N    | LBS             | N   | SAG %  | LBS   | N |
|                       | 216 FIBERS                               |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100                   | 30                                       | 0.202  | 301    | 0.780 | 19.8     | 854  | 3797  | 253  | 1125            | 3.1 | 505    | 2246  |   |
| 200                   | 61                                       | 0.202  | 301    | 0.780 | 19.8     | 913  | 4060  | 505  | 2246            | 3.6 | 875    | 3892  |   |
| 300                   | 91                                       | 0.202  | 301    | 0.780 | 19.8     | 1314 | 5843  | 758  | 3372            | 3.6 | 1300   | 5783  |   |
| 400                   | 122                                      | 0.202  | 301    | 0.780 | 19.8     | 1884 | 8380  | 1012 | 4502            | 3.6 | 1762   | 7838  |   |
| 500                   | 152                                      | 0.211  | 313    | 0.795 | 20.2     | 2264 | 10071 | 1316 | 5854            | 3.6 | 2224   | 9893  |   |
| 600                   | 183                                      | 0.211  | 314    | 0.795 | 20.2     | 2771 | 12326 | 1580 | 7028            | 3.6 | 2681   | 11926 |   |
| 700                   | 213                                      | 0.211  | 314    | 0.795 | 20.2     | 3151 | 14017 | 1844 | 8203            | 3.6 | 3111   | 13838 |   |
| 800                   | 244                                      | 0.211  | 314    | 0.795 | 20.2     | 3658 | 16271 | 2108 | 9377            | 3.6 | 3568   | 15871 |   |
| 900                   | 274                                      | 0.211  | 314    | 0.795 | 20.2     | 4038 | 17963 | 2373 | 10556           | 3.6 | 3998   | 17784 |   |
| 1000                  | 305                                      | 0.219  | 326    | 0.811 | 20.6     | 4545 | 20217 | 2742 | 12197           | 3.6 | 4538   | 20186 |   |
| 1100                  | 335                                      | 0.220  | 327    | 0.811 | 20.6     | 5069 | 22548 | 3022 | 13443           | 3.5 | 5010   | 22286 |   |
| 1200                  | 366                                      | 0.220  | 327    | 0.811 | 20.6     | 5576 | 24803 | 3300 | 14679           | 3.5 | 5477   | 24363 |   |
| 1300                  | 396                                      | 0.229  | 340    | 0.827 | 21.0     | 6083 | 27057 | 3716 | 16530           | 3.5 | 6053   | 26925 |   |
| 1400                  | 427                                      | 0.228  | 339    | 0.827 | 21.0     | 6590 | 29312 | 3983 | 17717           | 3.5 | 6515   | 28980 |   |
| 1500                  | 457                                      | 0.228  | 339    | 0.827 | 21.0     | 6970 | 31003 | 4269 | 18989           | 3.5 | 6962   | 30969 |   |
| 288 FIBERS            |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100                   | 30                                       | 0.259  | 385    | 0.890 | 22.6     | 1296 | 5763  | 323  | 1439            | 2.8 | 619    | 2753  |   |
| 200                   | 61                                       | 0.259  | 385    | 0.890 | 22.6     | 1296 | 5763  | 647  | 2878            | 3.3 | 1061   | 4720  |   |
| 300                   | 91                                       | 0.259  | 385    | 0.890 | 22.6     | 1566 | 6964  | 971  | 4317            | 3.4 | 1522   | 6771  |   |
| 400                   | 122                                      | 0.259  | 385    | 0.890 | 22.6     | 2072 | 9219  | 1295 | 5759            | 3.4 | 2027   | 9016  |   |
| 500                   | 152                                      | 0.259  | 385    | 0.890 | 22.6     | 2579 | 11474 | 1619 | 7201            | 3.4 | 2532   | 11262 |   |
| 600                   | 183                                      | 0.259  | 386    | 0.890 | 22.6     | 3086 | 13728 | 1943 | 8644            | 3.4 | 3037   | 13509 |   |
| 700                   | 213                                      | 0.269  | 400    | 0.906 | 23.0     | 3720 | 16547 | 2351 | 10460           | 3.4 | 3633   | 16163 |   |
| 800                   | 244                                      | 0.269  | 400    | 0.906 | 23.0     | 4227 | 18802 | 2688 | 11958           | 3.4 | 4148   | 18453 |   |
| 900                   | 274                                      | 0.269  | 400    | 0.906 | 23.0     | 4734 | 21056 | 3025 | 13457           | 3.4 | 4663   | 20744 |   |
| 1000                  | 305                                      | 0.268  | 399    | 0.921 | 23.4     | 5196 | 23112 | 3350 | 14900           | 3.4 | 5176   | 23026 |   |
| 1100                  | 335                                      | 0.268  | 399    | 0.921 | 23.4     | 5703 | 25366 | 3686 | 16396           | 3.4 | 5692   | 25321 |   |
| 1200                  | 366                                      | 0.268  | 399    | 0.921 | 23.4     | 6209 | 27621 | 4022 | 17892           | 3.4 | 6208   | 27616 |   |
| 1300                  | 396                                      | 0.267  | 397    | 0.921 | 23.4     | 6716 | 29876 | 4339 | 19301           | 3.4 | 6711   | 29854 |   |
| 1400                  | 427                                      | 0.277  | 412    | 0.937 | 23.8     | 7477 | 33258 | 4845 | 21552           | 3.4 | 7412   | 32972 |   |
| 1500                  | 457                                      | 0.277  | 412    | 0.937 | 23.8     | 7984 | 35513 | 5193 | 23098           | 3.4 | 7938   | 35308 |   |
| 432 FIBERS            |                                          |        |        |       |          |      |       |      |                 |     |        |       |   |
| 100                   | 30                                       | 0.298  | 444    | 0.953 | 24.2     | 1296 | 5763  | 373  | 1658            | 2.8 | 659    | 2931  |   |
| 200                   | 61                                       | 0.298  | 444    | 0.953 | 24.2     | 1296 | 5763  | 745  | 3316            | 3.2 | 1140   | 5070  |   |
| 300                   | 91                                       | 0.298  | 444    | 0.953 | 24.2     | 1692 | 7528  | 1118 | 4975            | 3.3 | 1665   | 7405  |   |
| 400                   | 122                                      | 0.298  | 444    | 0.953 | 24.2     | 2326 | 10346 | 1492 | 6636            | 3.3 | 2233   | 9932  |   |
| 500                   | 152                                      | 0.298  | 444    | 0.953 | 24.2     | 2833 | 12601 | 1865 | 8298            | 3.3 | 2778   | 12356 |   |
| 600                   | 183                                      | 0.299  | 444    | 0.953 | 24.2     | 3340 | 14856 | 2239 | 9960            | 3.3 | 3322   | 14779 |   |
| 700                   | 213                                      | 0.309  | 459    | 0.969 | 24.6     | 3973 | 17674 | 2701 | 12015           | 3.3 | 3962   | 17625 |   |
| 800                   | 244                                      | 0.309  | 460    | 0.969 | 24.6     | 4607 | 20493 | 3088 | 13737           | 3.3 | 4541   | 20202 |   |
| 900                   | 274                                      | 0.320  | 476    | 0.984 | 25.0     | 5322 | 23675 | 3597 | 15999           | 3.2 | 5233   | 23279 |   |
| 1000                  | 305                                      | 0.320  | 476    | 0.984 | 25.0     | 5829 | 25930 | 3997 | 17781           | 3.2 | 5800   | 25800 |   |
| 1100                  | 335                                      | 0.319  | 474    | 0.984 | 25.0     | 6463 | 28749 | 4382 | 19490           | 3.2 | 6379   | 28374 |   |
| 1200                  | 366                                      | 0.319  | 474    | 0.984 | 25.0     | 6970 | 31003 | 4781 | 21268           | 3.3 | 6945   | 30891 |   |
| 1300                  | 396                                      | 0.329  | 490    | 1.000 | 25.4     | 7730 | 34385 | 5350 | 23799           | 3.2 | 7695   | 34229 |   |
| 1400                  | 427                                      | 0.329  | 490    | 1.000 | 25.4     | 8364 | 37204 | 5764 | 25639           | 3.2 | 8295   | 36899 |   |
| 1500                  | 457                                      | 0.329  | 490    | 1.000 | 25.4     | 8997 | 40022 | 6178 | 27479           | 3.2 | 8896   | 39570 |   |

\* Initial tension indicates tension before 10 year creep.