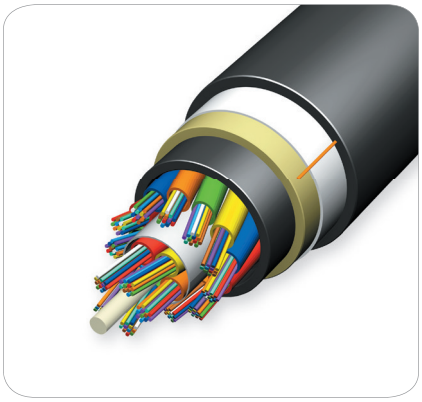


All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

AFL-ADSS® (All-Dielectric Self-Supporting) cable is ideal for installation in distribution as well as transmission environments, even when live-line installations are required. As its name indicates, there is no support or messenger wire required, so installation is achieved in a single pass, making ADSS an economical and simple means of achieving a fiber optic network. AFL manufactures its own line of attachment hardware as well as supplies formed wire fittings when preferred.

Features

- Suitable for use on distribution and high voltage transmission lines
- Track-resistant outer jacket available for installations on high voltage lines where space potentials reach up to 25 kV
- Gel-filled buffer tubes are S-Z stranded for easy mid-span access
- Cable is water-blocked using dry core technology, therefore no messy flooding compounds
- Design details listed below for span lengths up to 1500 ft (457 m) and fiber counts up to 432
- Custom designs available for larger span lengths or other fiber counts

Temperature Range

Operating: -40°C to +70°C

Storage: -50°C to +70°C

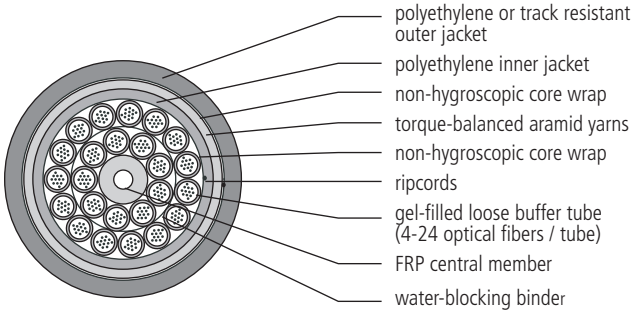
Installation: -30°C to +70°C

Typical Maximum Lengths

CABLE DIAMETER	REEL CAPACITY	
	FEET	METERS
≤ 0.85" (21.6 mm)	23,000	7,000
> 0.85" (21.6 mm)	10,000	3,000

NOTE: Longer lengths may be available upon request. Lengths shown may require non-standard reel sizes/types.

Cable Components



Quote Request Information

A - XXX - XXXX - X - X - X - X

Fiber Count
002 = 2 fibers
432 = 432 fibers

Span Length
0100=100
1500=1500

Unit of Measure
F=Feet
M=Meters

NESC Loading Condition
L=Light
M=Medium
H=Heavy

Fiber Code
6=62.5/125 GIGA-Link™ 300
8=62.5/125 GIGA-Link™ 1000
5=50/125 GIGA-Link™ 600
7=50/125 GIGA-Link™ 2000
L=50 Laser-Link™ 300
9=Single-mode
Q=Non-zero Dispersion-shifted Single-mode
K=SM Futureguide SR-15e Bend Insensitive

Line Voltage
A= Less than 115 kV
B= ≥115 kV

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.

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

Optical Information

FIBER TYPE	MAXIMUM ATTENUATION (dB/km)				OVERFILL LAUNCH MIN. BANDWIDTH (MHz•km)		GIGABIT ETHERNET MINIMUM 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 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.

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

LIGHT

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.

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

LIGHT

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.

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

LIGHT

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.

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

LIGHT

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.

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

LIGHT

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.

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

MEDIUM

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	0.080	119	0.500	12.7	539	2398	100	446	2.3	242	1074
200	61	0.080	119	0.500	12.7	539	2398	201	892	2.8	406	1807
300	91	0.080	119	0.500	12.7	598	2661	301	1339	0.9	518	2304
400	122	0.080	119	0.500	12.7	746	3320	401	1785	3.0	744	3311
500	152	0.080	120	0.500	12.7	999	4444	502	2232	3.0	946	4206
600	183	0.084	125	0.512	13.0	1189	5290	632	2812	0.9	1055	4694
700	213	0.084	126	0.512	13.0	1569	6981	738	3283	2.9	1387	6168
800	244	0.084	126	0.512	13.0	1569	6981	844	3752	3.0	1536	6834
900	274	0.085	126	0.512	13.0	1823	8108	951	4231	3.0	1742	7751
1000	305	0.090	134	0.528	13.4	2076	9236	1125	5005	1.0	1825	8118
1100	335	0.090	134	0.528	13.4	2203	9799	1238	5506	3.0	2180	9698
1200	366	0.090	134	0.528	13.4	2456	10927	1351	6010	2.9	2391	10634
1300	396	0.090	134	0.528	13.4	2583	11490	1464	6512	3.0	2573	11444
1400	427	0.090	134	0.528	13.4	2837	12618	1577	7016	3.0	2783	12380
1500	457	0.090	134	0.528	13.4	3090	13745	1691	7520	2.9	2994	13316
24 FIBERS												
100	30	0.081	121	0.500	12.7	539	2398	102	452	2.3	242	1078
200	61	0.081	121	0.500	12.7	539	2398	203	904	2.8	408	1813
300	91	0.081	121	0.500	12.7	598	2661	305	1356	0.9	520	2314
400	122	0.081	121	0.500	12.7	776	3452	407	1809	3.0	754	3355
500	152	0.081	121	0.500	12.7	999	4444	508	2262	3.0	950	4224
600	183	0.085	127	0.512	13.0	1189	5290	640	2847	0.9	1060	4714
700	213	0.085	127	0.512	13.0	1569	6981	747	3324	2.9	1392	6192
800	244	0.085	127	0.512	13.0	1696	7545	854	3800	2.9	1571	6986
900	274	0.086	127	0.512	13.0	1823	8108	963	4284	3.0	1750	7782
1000	305	0.091	136	0.528	13.4	2076	9236	1138	5064	1.0	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	12430
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.

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

NESC MEDIUM LOADING @ 1% INSTALLATION SAG

MEDIUM

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	2.3	244	1085
200	61	0.083	124	0.500	12.7	598	2661	209	930	2.7	421	1873
300	91	0.083	124	0.500	12.7	598	2661	313	1392	3.0	574	2553
400	122	0.083	124	0.500	12.7	776	3452	417	1855	3.0	761	3385
500	152	0.083	124	0.500	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	1.0	1848	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.

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

NESC MEDIUM LOADING @ 1% INSTALLATION SAG

MEDIUM

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.

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

NESC MEDIUM LOADING @ 1% INSTALLATION SAG

MEDIUM

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.

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

MEDIUM

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.

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

HEAVY

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.

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

HEAVY

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.

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

HEAVY

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.

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

HEAVY

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.

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

HEAVY

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.