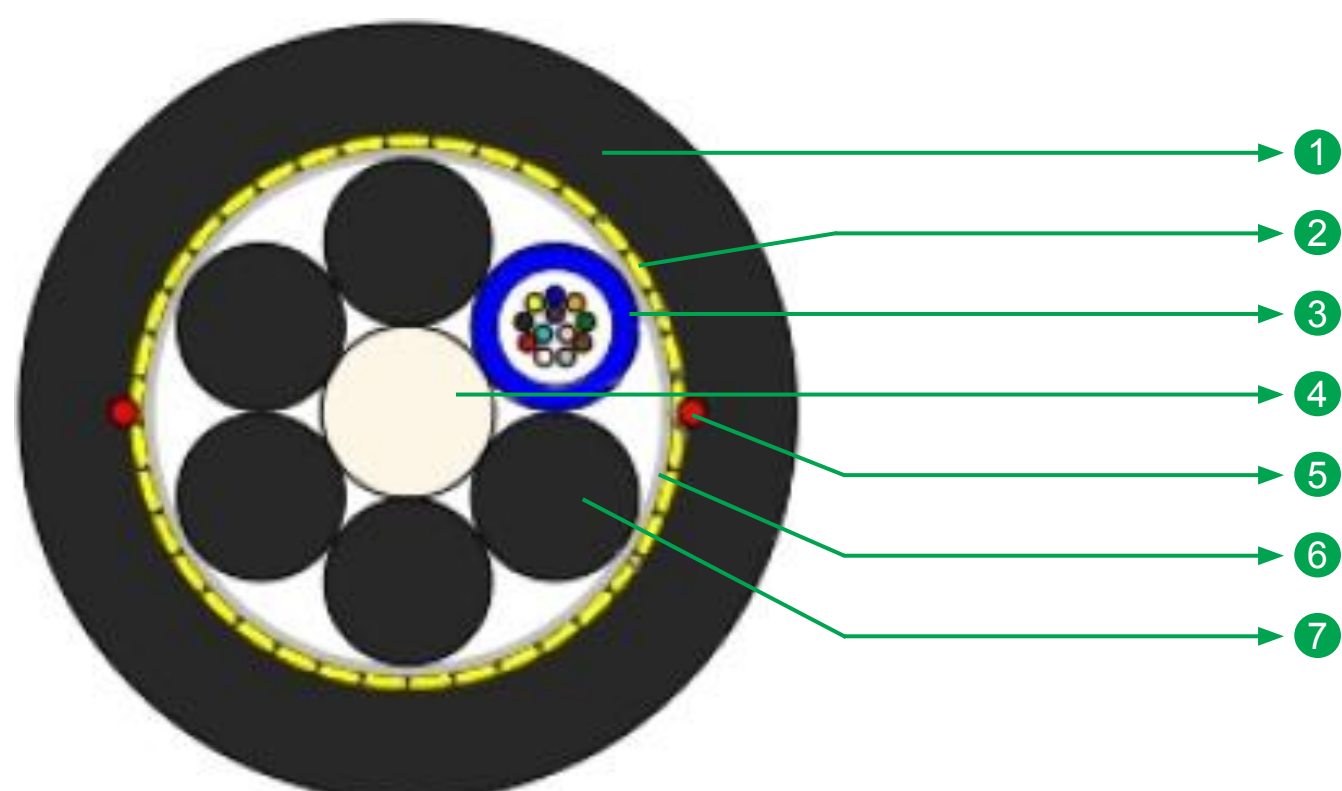
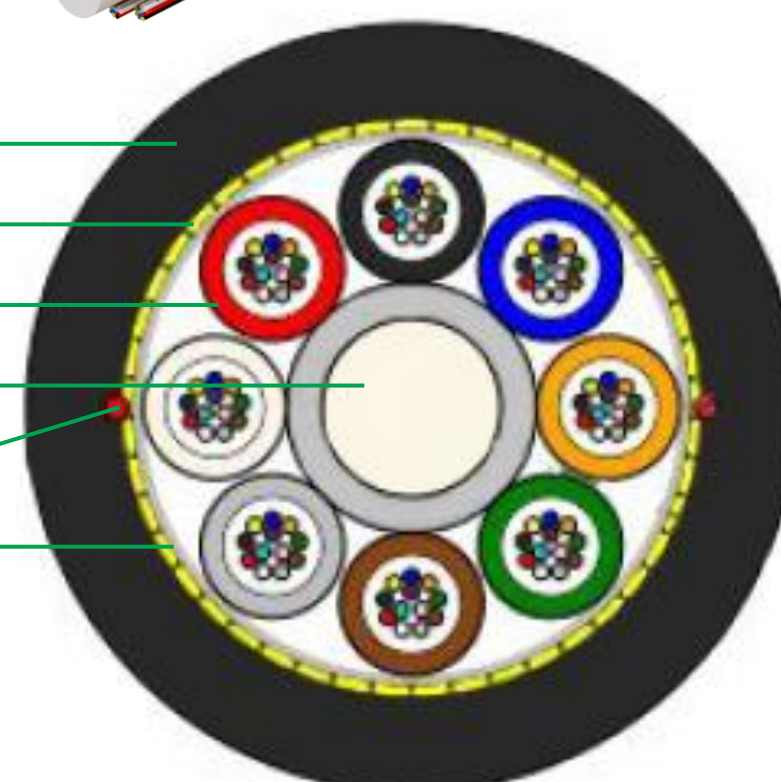


AERIAL-LITE

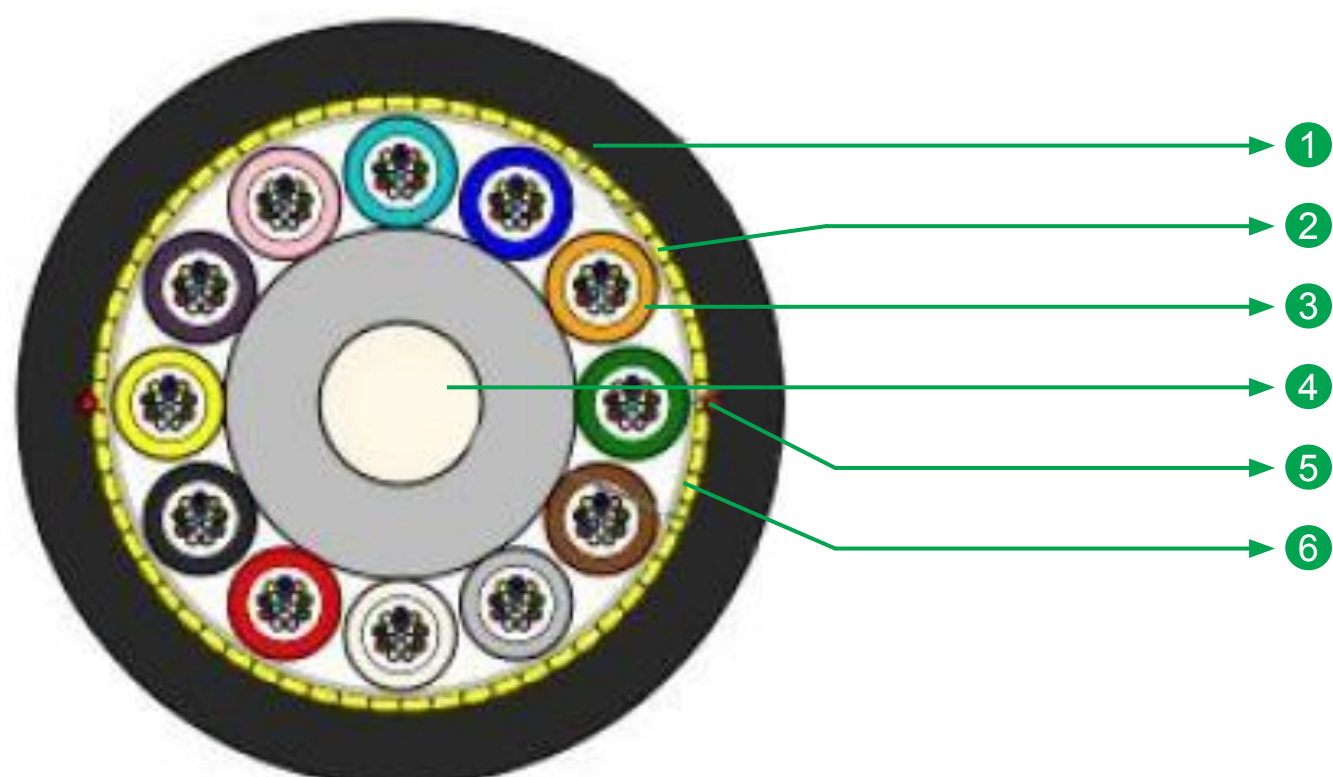
Gel Free SJ ARY OFC



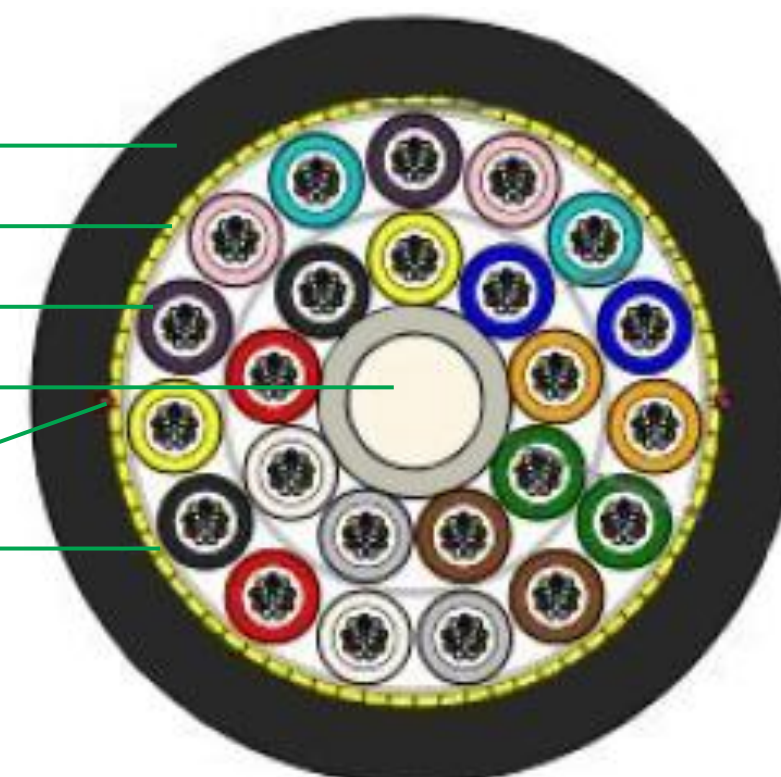
6 Elements (12F~72F)



8 Elements (96F)



12 Elements (144F)



24 Elements (288F)

- | | | | | |
|-----------------------|----------------|-----------------------|-------------------|--------------|
| 1 OUTER JACKET | 2 ARAMID YARNS | 3 GEL FREE LOOSE TUBE | 4 STRENGTH MEMBER | 5 RIPCORD(S) |
| 6 WATER BLOCKING TAPE | 7 FILLER | | | |

* Typical Construction Diagram - Not to Scale

Features & Benefits

- This cable can be designed to suit specific requirements of span length, wind speed and other loading conditions
- Dry water-blocking technology for gel free core helps in quicker end preparation
- Easily removable rugged thermoplastic jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant

Product Details

STL AERIAL-LITE Gel Free Multi-tube Single Jacket ADSS Cables are smaller in diameter and lighter in weight that enables them to be installed aerially in moderate field conditions. This cable is a stranded loose tube cable with optical fibers placed inside robust buffer tubes stranded around a fiber reinforced plastic (FRP) central strength member. In addition to optical fibers, the buffer tubes contain water-swellable yarns, and the cable core is surrounded with water-swellable tape to prevent water ingress in the interstices of cable core. High strength yarns are distributed over the core to provide the required tensile strength for aerial self-supporting applications.

Fibers and Cable Performance Standards

Cable complies with the following standards IEC 60793, IEC 60794, ITU-T, RoHS, and REACH

Printing Details

Printing: STERLITE SM NOVA “FIBER COUNT” “AERIAL SPAN” LENGTH OFC LASER SYMBOL TELEPHONE SYMBOL “YEAR OF MANUFACTURE” “LENGTH CODE” “FEET or METER MARKING”

Note: The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.

Specifications

Physical Characteristics	
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.25
PMD LDV (ps/sqrt.km)	</= 0.1
Fibers per Tube	12
Central Strength Member	FRP (Fiber Reinforced Plastic)
Core Wrapping	Binder and Water swellable tape High
Peripheral Strength Members	Strength Aramid Yarns
No of Ripcords Below Tape	2
Outer Sheath Material	UV Proof Black Polyethylene

Color Sequence (as per EIA/TIA 598C)											
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua

*Tubes in 2nd layer shall have stripe marking for Identification.

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Crush Resistance (N/cm) (lbf/in)	IEC-60794-1-21-E3	200 (114.20)
Impact Strength (Nm)(lbf.in)	IEC-60794-1-21-E4	5 (44.25)
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	20 D
Min. Bend Radius (After Installation)	IEC-60794-1-21-E6	15 D
Water Penetration Test	IEC-60794-1-22-F5	1m head, 3m samples, 24 hrs.
Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be </= 0.15 dB/km
Installation		-30° C to + 70° C
Operation		-40° C to + 70° C
Storage		-40° C to + 70° C

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	13,123 ± 5%	-0%, +5%	Max 5%, Customer Approval

SAG TENSION CHART AERIAL ADSS CABLE - NESC LIGHT													
Ice thickness : 0 mm (0 in)							Wind Speed : 97 KMPH (60 MPH)						
Fiber Count : up to 72F (XX : ~0072, YY : 01~06)													
Attributes & Condition					Installation					NESC LIGHT			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A100XXbbYYFAP100L1	0.441	11.2	100	30	1.5%	1.5	0.5	224	50	2.1	0.6	928	208
A100XXbbYYFAP100L1	0.441	11.2	150	46	1.5%	2.3	0.7	336	75	3.6	1.1	1225	275
A100XXbbYYFAP100L1	0.441	11.2	200	61	1.5%	3.0	0.9	449	100	5.2	1.6	1496	335
A100XXbbYYFAP100L1	0.441	11.2	250	76	1.5%	3.8	1.1	561	126	6.9	2.1	1750	392
A100XXbbYYFAP100L1	0.441	11.2	300	91	1.5%	4.5	1.4	673	151	8.8	2.7	1990	446
A100XXbbYYFAP100L1	0.441	11.2	350	107	1.5%	5.3	1.6	785	176	10.7	3.3	2219	497
A100XXbbYYFAP100L1	0.441	11.2	400	122	1.5%	6.0	1.8	897	201	12.7	3.9	2441	547
A100XXbbYYFAP100L1	0.441	11.2	450	137	1.5%	6.8	2.1	1009	226	14.8	4.5	2656	595
A100XXbbYYFAP100L1	0.441	11.2	500	152	1.5%	7.5	2.3	1122	251	17.0	5.2	2865	642
A100XXbbYYFAP100L2	0.441	11.2	550	168	1.5%	8.3	2.5	1234	276	18.6	5.7	3166	709
A100XXbbYYFAP100L2	0.441	11.2	600	183	1.5%	9.0	2.7	1346	301	20.7	6.3	3373	756
A100XXbbYYFAP100L2	0.441	11.2	650	198	1.5%	9.8	3.0	1458	327	23.0	7.0	3575	801
A100XXbbYYFAP100L2	0.441	11.2	700	213	1.5%	10.5	3.2	1570	352	25.2	7.7	3774	845
A100XXbbYYFAP100L3	0.449	11.4	750	229	1.5%	11.3	3.4	1776	398	25.3	7.7	4404	986
A100XXbbYYFAP100L3	0.449	11.4	800	244	1.5%	12.0	3.7	1894	424	27.4	8.4	4619	1035
A100XXbbYYFAP100L3	0.449	11.4	850	259	1.5%	12.8	3.9	2013	451	29.6	9.0	4831	1082
A100XXbbYYFAP100L4	0.457	11.6	900	274	1.5%	13.5	4.1	2131	477	30.7	9.4	5268	1180
A100XXbbYYFAP100L4	0.457	11.6	950	290	1.5%	14.3	4.3	2249	504	32.8	10.0	5484	1229
A100XXbbYYFAP100L4	0.457	11.6	1000	305	1.5%	15.0	4.6	2368	530	35.0	10.7	5698	1276
A100XXbbYYFAP100L5	0.465	11.8	1050	320	1.5%	15.8	4.8	2486	557	36.5	11.1	6073	1360
A100XXbbYYFAP100L5	0.465	11.8	1100	335	1.5%	16.5	5.0	2605	583	38.7	11.8	6287	1408
A100XXbbYYFAP100L5	0.465	11.8	1150	351	1.5%	17.3	5.3	2723	610	40.9	12.5	6499	1456
Fiber Count : 96F													
Attributes & Condition					Installation					NESC LIGHT			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A10096bb08FAP100L1	0.520	13.2	100	30	1.5%	1.5	0.5	312	70	1.8	0.6	1270	284
A10096bb08FAP100L1	0.520	13.2	150	46	1.5%	2.3	0.7	467	105	3.1	0.9	1673	375
A10096bb08FAP100L1	0.520	13.2	200	61	1.5%	3.0	0.9	623	140	4.5	1.4	2041	457
A10096bb08FAP100L1	0.520	13.2	250	76	1.5%	3.8	1.1	779	174	6.0	1.8	2385	534
A10096bb08FAP100L1	0.520	13.2	300	91	1.5%	4.5	1.4	935	209	7.6	2.3	2711	607
A10096bb08FAP100L1	0.520	13.2	350	107	1.5%	5.3	1.6	1090	244	9.3	2.8	3023	677
A10096bb08FAP100L1	0.520	13.2	400	122	1.5%	6.0	1.8	1246	279	11.1	3.4	3324	745
A10096bb08FAP100L1	0.520	13.2	450	137	1.5%	6.8	2.1	1402	314	12.9	3.9	3617	810
A10096bb08FAP100L1	0.528	13.4	500	152	1.5%	7.5	2.3	1558	349	14.2	4.3	3901	874
A10096bb08FAP100L2	0.528	13.4	550	168	1.5%	8.3	2.5	1782	399	15.6	4.8	4529	1014
A10096bb08FAP100L2	0.528	13.4	600	183	1.5%	9.0	2.7	1944	435	17.5	5.3	4828	1081
A10096bb08FAP100L2	0.528	13.4	650	198	1.5%	9.8	3.0	2106	472	19.3	5.9	5121	1147
A10096bb08FAP100L2	0.535	13.6	700	213	1.5%	10.5	3.2	2268	508	21.2	6.5	5408	1211
A10096bb08FAP100L3	0.535	13.6	750	229	1.5%	11.3	3.4	2524	565	22.5	6.8	5958	1335
A10096bb08FAP100L3	0.535	13.6	800	244	1.5%	12.0	3.7	2692	603	24.3	7.4	6252	1400
A10096bb08FAP100L3	0.535	13.6	850	259	1.5%	12.8	3.9	2860	641	26.3	8.0	6541	1465
A10096bb08FAP100L4	0.535	13.6	900	274	1.5%	13.5	4.1	3028	678	27.5	8.4	7008	1570
A10096bb08FAP100L4	0.535	13.6	950	290	1.5%	14.3	4.3	3196	716	29.4	9.0	7297	1635
A10096bb08FAP100L4	0.543	13.8	1000	305	1.5%	15.0	4.6	3365	754	31.4	9.6	7584	1699
A10096bb08FAP100L5	0.543	13.8	1050	320	1.5%	15.8	4.8	3664	821	32.1	9.8	8285	1856
A10096bb08FAP100L5	0.543	13.8	1100	335	1.5%	16.5	5.0	3838	860	34.0	10.4	8581	1922
A10096bb08FAP100L5	0.543	13.8	1150	351	1.5%	17.3	5.3	4013	899	35.9	10.9	8875	1988

SAG TENSION CHART AERIAL ADSS CABLE - NESC LIGHT													
Ice thickness : 0 mm (0 in)							Wind Speed : 97 KMPH (60 MPH)						
Fiber Count : 144F													
Attributes & Condition					Installation					NESC LIGHT			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A10144bb12FAP100L1	0.654	16.6	100	30	1.5%	1.5	0.5	498	112	1.7	0.5	1735	389
A10144bb12FAP100L1	0.654	16.6	150	46	1.5%	2.3	0.7	748	167	2.9	0.9	2274	509
A10144bb12FAP100L1	0.654	16.6	200	61	1.5%	3.0	0.9	997	223	4.2	1.3	2768	620
A10144bb12FAP100L1	0.654	16.6	250	76	1.5%	3.8	1.1	1246	279	5.7	1.7	3232	724
A10144bb12FAP100L1	0.654	16.6	300	91	1.5%	4.5	1.4	1495	335	7.2	2.2	3674	823
A10144bb12FAP100L1	0.654	16.6	350	107	1.5%	5.3	1.6	1745	391	8.8	2.7	4098	918
A10144bb12FAP100L1	0.654	16.6	400	122	1.5%	6.0	1.8	1994	447	10.4	3.2	4510	1010
A10144bb12FAP100L1	0.654	16.6	450	137	1.5%	6.8	2.1	2243	502	12.1	3.7	4909	1100
A10144bb12FAP100L1	0.654	16.6	500	152	1.5%	7.5	2.3	2492	558	13.8	4.2	5299	1187
A10144bb12FAP100L2	0.661	16.8	550	168	1.5%	8.3	2.5	2810	629	14.8	4.5	6078	1362
A10144bb12FAP100L2	0.661	16.8	600	183	1.5%	9.0	2.7	3066	687	16.5	5.0	6484	1453
A10144bb12FAP100L2	0.661	16.8	650	198	1.5%	9.8	3.0	3321	744	18.2	5.6	6884	1542
A10144bb12FAP100L2	0.661	16.8	700	213	1.5%	10.5	3.2	3577	801	20.0	6.1	7276	1630
A10144bb12FAP100L3	0.661	16.8	750	229	1.5%	11.3	3.4	3925	879	21.0	6.4	7994	1791
A10144bb12FAP100L3	0.661	16.8	800	244	1.5%	12.0	3.7	4187	938	22.7	6.9	8394	1880
A10144bb12FAP100L3	0.661	16.8	850	259	1.5%	12.8	3.9	4449	997	24.5	7.5	8789	1969
A10144bb12FAP100L4	0.661	16.8	900	274	1.5%	13.5	4.1	4823	1080	24.6	7.5	9163	2053
A10144bb12FAP100L4	0.661	16.8	950	290	1.5%	14.3	4.3	5091	1140	26.3	8.0	9553	2140
A10144bb12FAP100L4	0.661	16.8	1000	305	1.5%	15.0	4.6	5359	1200	28.0	8.5	9939	2226
A10144bb12FAP100L5	0.669	17.0	1050	320	1.5%	15.8	4.8	5627	1260	29.2	8.9	10517	2356
A10144bb12FAP100L5	0.669	17.0	1100	335	1.5%	16.5	5.0	5894	1320	30.9	9.4	10903	2442
A10144bb12FAP100L5	0.669	17.0	1150	351	1.5%	17.3	5.3	6162	1380	32.6	9.9	11285	2528
Fiber Count : 288F													
Attributes & Condition					Installation					NESC LIGHT			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A10288bb24FAP100L1	0.756	19.2	100	30	1.5%	1.5	0.5	623	140	1.5	0.5	2039	457
A10288bb24FAP100L1	0.756	19.2	150	46	1.5%	2.3	0.7	935	209	2.6	0.8	2691	603
A10288bb24FAP100L1	0.756	19.2	200	61	1.5%	3.0	0.9	1246	279	3.8	1.2	3290	737
A10288bb24FAP100L1	0.756	19.2	250	76	1.5%	3.8	1.1	1558	349	5.1	1.6	3852	863
A10288bb24FAP100L1	0.756	19.2	300	91	1.5%	4.5	1.4	1869	419	6.4	2.0	4388	983
A10288bb24FAP100L1	0.756	19.2	350	107	1.5%	5.3	1.6	2181	489	7.8	2.4	4904	1099
A10288bb24FAP100L1	0.756	19.2	400	122	1.5%	6.0	1.8	2492	558	9.3	2.8	5404	1210
A10288bb24FAP100L1	0.756	19.2	450	137	1.5%	6.8	2.1	2804	628	10.8	3.3	5890	1319
A10288bb24FAP100L1	0.756	19.2	500	152	1.5%	7.5	2.3	3115	698	12.3	3.8	6364	1426
A10288bb24FAP100L2	0.764	19.4	550	168	1.5%	8.3	2.5	3496	783	13.4	4.1	7140	1599
A10288bb24FAP100L2	0.764	19.4	600	183	1.5%	9.0	2.7	3813	854	15.0	4.6	7624	1708
A10288bb24FAP100L2	0.764	19.4	650	198	1.5%	9.8	3.0	4131	925	16.5	5.0	8099	1814
A10288bb24FAP100L2	0.764	19.4	700	213	1.5%	10.5	3.2	4449	997	18.1	5.5	8566	1919
A10288bb24FAP100L3	0.764	19.4	750	229	1.5%	11.3	3.4	4860	1089	19.1	5.8	9383	2102
A10288bb24FAP100L3	0.764	19.4	800	244	1.5%	12.0	3.7	5184	1161	20.7	6.3	9859	2209
A10288bb24FAP100L3	0.764	19.4	850	259	1.5%	12.8	3.9	5508	1234	22.3	6.8	10330	2314
A10288bb24FAP100L4	0.772	19.6	900	274	1.5%	13.5	4.1	6056	1357	22.8	6.9	11382	2550
A10288bb24FAP100L4	0.772	19.6	950	290	1.5%	14.3	4.3	6393	1432	24.4	7.4	11869	2659
A10288bb24FAP100L4	0.772	19.6	1000	305	1.5%	15.0	4.6	6729	1507	25.9	7.9	12351	2767
A10288bb24FAP100L5	0.772	19.6	1050	320	1.5%	15.8	4.8	7328	1641	26.9	8.2	13246	2967
A10288bb24FAP100L5	0.772	19.6	1100	335	1.5%	16.5	5.0	7676	1720	28.5	8.7	13738	3077
A10288bb24FAP100L5	0.772	19.6	1150	351	1.5%	17.3	5.3	8025	1798	30.1	9.2	14225	3186

SAG TENSION CHART AERIAL ADSS CABLE - NESC MEDIUM													
Ice thickness : 6.35 mm (0.25 in)							Wind Speed : 64 KMPH (40 MPH)						
Fiber Count : upto 72F (XX : ~0072, YY : 01~06)													
Attributes & Condition					Installation					NESC MEDIUM			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A100XXbbYYFAP100M1	0.441	11.2	100	30	1.5%	1.5	0.5	224	50	1.9	0.6	1361	305
A100XXbbYYFAP100M1	0.441	11.2	150	46	1.5%	2.3	0.7	336	75	3.4	1.0	1702	381
A100XXbbYYFAP100M1	0.441	11.2	200	61	1.5%	3.0	0.9	449	100	5.1	1.6	2016	452
A100XXbbYYFAP100M1	0.441	11.2	250	76	1.5%	3.8	1.1	561	126	7.0	2.1	2310	517
A100XXbbYYFAP100M1	0.441	11.2	300	91	1.5%	4.5	1.4	673	151	9.0	2.7	2588	580
A100XXbbYYFAP100M1	0.441	11.2	350	107	1.5%	5.3	1.6	785	176	11.1	3.4	2855	640
A100XXbbYYFAP100M1	0.441	11.2	400	122	1.5%	6.0	1.8	897	201	13.3	4.0	3112	697
A100XXbbYYFAP100M1	0.441	11.2	450	137	1.5%	6.8	2.1	1009	226	15.5	4.7	3361	753
A100XXbbYYFAP100M1	0.441	11.2	500	152	1.5%	7.5	2.3	1184	265	16.1	4.9	4061	910
A100XXbbYYFAP100M2	0.449	11.4	550	168	1.5%	8.3	2.5	1302	292	18.2	5.5	4337	971
A100XXbbYYFAP100M2	0.449	11.4	600	183	1.5%	9.0	2.7	1421	318	20.4	6.2	4606	1032
A100XXbbYYFAP100M2	0.449	11.4	650	198	1.5%	9.8	3.0	1539	345	21.8	6.7	5069	1135
A100XXbbYYFAP100M2	0.449	11.4	700	213	1.5%	10.5	3.2	1657	371	24.0	7.3	5339	1196
A100XXbbYYFAP100M3	0.457	11.6	750	229	1.5%	11.3	3.4	1776	398	26.3	8.0	5605	1255
A100XXbbYYFAP100M3	0.457	11.6	800	244	1.5%	12.0	3.7	1894	424	28.6	8.7	5866	1314
A100XXbbYYFAP100M3	0.465	11.8	850	259	1.5%	12.8	3.9	2013	451	30.9	9.4	6122	1371
A100XXbbYYFAP100M4	0.465	11.8	900	274	1.5%	13.5	4.1	2243	502	31.7	9.7	6740	1510
A100XXbbYYFAP100M4	0.465	11.8	950	290	1.5%	14.3	4.3	2368	530	34.0	10.4	7006	1569
A100XXbbYYFAP100M4	0.465	11.8	1000	305	1.5%	15.0	4.6	2492	558	36.3	11.1	7269	1628
A100XXbbYYFAP100M5	0.465	11.8	1050	320	1.5%	15.8	4.8	2617	586	37.7	11.5	7775	1742
A100XXbbYYFAP100M5	0.465	11.8	1100	335	1.5%	16.5	5.0	2742	614	40.0	12.2	8040	1801
A100XXbbYYFAP100M5	0.465	11.8	1150	351	1.5%	17.3	5.3	2866	642	42.4	12.9	8302	1860
Fiber Count : 96F													
Attributes & Condition					Installation					NESC MEDIUM			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A10096bb08FAP100M1	0.520	13.2	100	30	1.5%	1.5	0.5	312	70	1.5	0.4	1954	438
A10096bb08FAP100M1	0.520	13.2	150	46	1.5%	2.3	0.7	467	105	2.7	0.8	2389	535
A10096bb08FAP100M1	0.520	13.2	200	61	1.5%	3.0	0.9	623	140	4.1	1.3	2793	626
A10096bb08FAP100M1	0.520	13.2	250	76	1.5%	3.8	1.1	779	174	5.7	1.7	3175	711
A10096bb08FAP100M1	0.520	13.2	300	91	1.5%	4.5	1.4	935	209	7.3	2.2	3539	793
A10096bb08FAP100M1	0.520	13.2	350	107	1.5%	5.3	1.6	1090	244	9.1	2.8	3888	871
A10096bb08FAP100M1	0.520	13.2	400	122	1.5%	6.0	1.8	1296	290	10.4	3.2	4484	1005
A10096bb08FAP100M1	0.520	13.2	450	137	1.5%	6.8	2.1	1458	327	12.2	3.7	4847	1086
A10096bb08FAP100M1	0.520	13.2	500	152	1.5%	7.5	2.3	1620	363	14.0	4.3	5200	1165
A10096bb08FAP100M2	0.535	13.6	550	168	1.5%	8.3	2.5	1782	399	15.9	4.8	5543	1242
A10096bb08FAP100M2	0.535	13.6	600	183	1.5%	9.0	2.7	2019	452	17.4	5.3	6104	1367
A10096bb08FAP100M2	0.535	13.6	650	198	1.5%	9.8	3.0	2187	490	19.3	5.9	6451	1445
A10096bb08FAP100M2	0.535	13.6	700	213	1.5%	10.5	3.2	2355	528	20.8	6.3	6950	1557
A10096bb08FAP100M3	0.535	13.6	750	229	1.5%	11.3	3.4	2524	565	22.7	6.9	7294	1634
A10096bb08FAP100M3	0.535	13.6	800	244	1.5%	12.0	3.7	2692	603	24.7	7.5	7633	1710
A10096bb08FAP100M3	0.535	13.6	850	259	1.5%	12.8	3.9	2966	664	25.8	7.9	8338	1868
A10096bb08FAP100M4	0.543	13.8	900	274	1.5%	13.5	4.1	3140	703	26.1	8.0	8793	1970
A10096bb08FAP100M4	0.543	13.8	950	290	1.5%	14.3	4.3	3315	743	29.4	8.9	9142	2048
A10096bb08FAP100M4	0.543	13.8	1000	305	1.5%	15.0	4.6	3489	782	31.3	9.6	9486	2125
A10096bb08FAP100M5	0.559	14.2	1050	320	1.5%	15.8	4.8	3925	879	32.5	9.9	10309	2309
A10096bb08FAP100M5	0.559	14.2	1100	335	1.5%	16.5	5.0	4112	921	34.4	10.5	10665	2389
A10096bb08FAP100M5	0.559	14.2	1150	351	1.5%	17.3	5.3	4299	963	36.4	11.1	11017	2468

SAG TENSION CHART AERIAL ADSS CABLE - NESC MEDIUM													
Ice thickness : 6.35 mm (0.25 in)							Wind Speed : 64 KMPH (40 MPH)						
Fiber Count : 144F													
Attributes & Condition					Installation					NESC MEDIUM			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A10144bb12FAP100M1	0.654	16.6	100	30	1.5%	1.5	0.5	498	112	1.2	0.4	2761	619
A10144bb12FAP100M1	0.654	16.6	150	46	1.5%	2.3	0.7	748	167	2.3	0.7	3300	739
A10144bb12FAP100M1	0.654	16.6	200	61	1.5%	3.0	0.9	997	223	3.6	1.1	3813	854
A10144bb12FAP100M1	0.654	16.6	250	76	1.5%	3.8	1.1	1246	279	5.0	1.5	4302	964
A10144bb12FAP100M1	0.654	16.6	300	91	1.5%	4.5	1.4	1495	335	6.5	2.0	4772	1069
A10144bb12FAP100M1	0.654	16.6	350	107	1.5%	5.3	1.6	1745	391	8.0	2.5	5226	1171
A10144bb12FAP100M1	0.654	16.6	400	122	1.5%	6.0	1.8	1994	447	9.7	3.0	5667	1269
A10144bb12FAP100M1	0.654	16.6	450	137	1.5%	6.8	2.1	2243	502	11.4	3.5	6096	1366
A10144bb12FAP100M1	0.654	16.6	500	152	1.5%	7.5	2.3	2492	558	13.2	4.0	6515	1459
A10144bb12FAP100M2	0.661	16.8	550	168	1.5%	8.3	2.5	2810	629	14.4	4.4	7293	1634
A10144bb12FAP100M2	0.661	16.8	600	183	1.5%	9.0	2.7	3140	703	15.6	4.8	8037	1800
A10144bb12FAP100M2	0.661	16.8	650	198	1.5%	9.8	3.0	3402	762	17.3	5.3	8490	1902
A10144bb12FAP100M2	0.661	16.8	700	213	1.5%	10.5	3.2	3664	821	19.1	5.8	8936	2002
A10144bb12FAP100M3	0.669	17.0	750	229	1.5%	11.3	3.4	4019	900	20.4	6.2	9687	2170
A10144bb12FAP100M3	0.669	17.0	800	244	1.5%	12.0	3.7	4287	960	22.2	6.8	10139	2271
A10144bb12FAP100M3	0.669	17.0	850	259	1.5%	12.8	3.9	4555	1020	24.0	7.3	10585	2371
A10144bb12FAP100M4	0.677	17.2	900	274	1.5%	13.5	4.1	4935	1105	23.9	7.3	11400	2554
A10144bb12FAP100M4	0.677	17.2	950	290	1.5%	14.3	4.3	5209	1167	26.9	8.2	11855	2655
A10144bb12FAP100M4	0.677	17.2	1000	305	1.5%	15.0	4.6	5483	1228	28.7	8.8	12304	2756
A10144bb12FAP100M5	0.685	17.4	1050	320	1.5%	15.8	4.8	5888	1319	31.0	9.5	12682	2841
A10144bb12FAP100M5	0.685	17.4	1100	335	1.5%	16.5	5.0	6169	1382	32.9	10.0	13124	2940
A10144bb12FAP100M5	0.685	17.4	1150	351	1.5%	17.3	5.3	6449	1445	34.8	10.6	13561	3038
Fiber Count : 288F													
Attributes & Condition					Installation					NESC MEDIUM			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A10288bb24FAP100M1	0.756	19.2	100	30	1.5%	1.5	0.5	623	140	1.1	0.3	3398	761
A10288bb24FAP100M1	0.756	19.2	150	46	1.5%	2.3	0.7	935	209	2.1	0.6	4068	911
A10288bb24FAP100M1	0.756	19.2	200	61	1.5%	3.0	0.9	1246	279	3.3	1.0	4704	1054
A10288bb24FAP100M1	0.756	19.2	250	76	1.5%	3.8	1.1	1558	349	4.5	1.4	5312	1190
A10288bb24FAP100M1	0.756	19.2	300	91	1.5%	4.5	1.4	1869	419	5.9	1.8	5895	1320
A10288bb24FAP100M1	0.756	19.2	350	107	1.5%	5.3	1.6	2181	489	7.3	2.2	6459	1447
A10288bb24FAP100M1	0.756	19.2	400	122	1.5%	6.0	1.8	2542	569	8.6	2.6	7183	1609
A10288bb24FAP100M1	0.756	19.2	450	137	1.5%	6.8	2.1	2860	641	10.1	3.1	7754	1737
A10288bb24FAP100M1	0.756	19.2	500	152	1.5%	7.5	2.3	3178	712	11.6	3.5	8309	1861
A10288bb24FAP100M2	0.764	19.4	550	168	1.5%	8.3	2.5	3564	798	12.9	3.9	9101	2039
A10288bb24FAP100M2	0.764	19.4	600	183	1.5%	9.0	2.7	3888	871	14.5	4.4	9662	2164
A10288bb24FAP100M2	0.764	19.4	650	198	1.5%	9.8	3.0	4212	944	16.1	4.9	10212	2288
A10288bb24FAP100M2	0.764	19.4	700	213	1.5%	10.5	3.2	4711	1055	16.9	5.1	11382	2550
A10288bb24FAP100M3	0.764	19.4	750	229	1.5%	11.3	3.4	5047	1131	18.4	5.6	11948	2676
A10288bb24FAP100M3	0.764	19.4	800	244	1.5%	12.0	3.7	5384	1206	20.1	6.1	12506	2801
A10288bb24FAP100M3	0.764	19.4	850	259	1.5%	12.8	3.9	5932	1329	21.3	6.5	13414	3005
A10288bb24FAP100M4	0.772	19.6	900	274	1.5%	13.5	4.1	6281	1407	22.5	6.9	14260	3194
A10288bb24FAP100M4	0.772	19.6	950	290	1.5%	14.3	4.3	6630	1485	24.1	7.4	14835	3323
A10288bb24FAP100M4	0.772	19.6	1000	305	1.5%	15.0	4.6	6979	1563	25.7	7.8	15404	3451
A10288bb24FAP100M5	0.780	19.8	1050	320	1.5%	15.8	4.8	7458	1671	27.1	8.2	16297	3651
A10288bb24FAP100M5	0.780	19.8	1100	335	1.5%	16.5	5.0	7814	1750	28.7	8.7	16869	3779
A10288bb24FAP100M5	0.780	19.8	1150	351	1.5%	17.3	5.3	8169	1830	30.3	9.2	17436	3906

SAG TENSION CHART AERIAL ADSS SINGLE SHEATH CABLE - NESC HEAVY													
Ice thickness : 12.7 mm (0.5 in)							Wind Speed : 64 KMPH (40 MPH)						
Fiber Count : upto 72F (XX : ~0072, YY : 01~06)													
Attributes & Condition					Installation					NESC HEAVY			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A100XXbbYYFAP100H1	0.441	11.2	100	30	1.5%	1.5	0.5	224	50	2.6	0.8	1827	409
A100XXbbYYFAP100H1	0.441	11.2	150	46	1.5%	2.3	0.7	336	75	4.6	1.4	2324	521
A100XXbbYYFAP100H1	0.441	11.2	200	61	1.5%	3.0	0.9	449	100	6.9	2.1	2775	622
A100XXbbYYFAP100H1	0.449	11.4	250	76	1.5%	3.8	1.1	561	126	9.3	2.8	3301	739
A100XXbbYYFAP100H1	0.449	11.4	300	91	1.5%	4.5	1.4	710	159	10.6	3.2	4095	917
A100XXbbYYFAP100H1	0.449	11.4	350	107	1.5%	5.3	1.6	829	186	13.0	3.9	4541	1017
A100XXbbYYFAP100H1	0.457	11.6	400	122	1.5%	6.0	1.8	947	212	14.8	4.5	5200	1165
A100XXbbYYFAP100H1	0.457	11.6	450	137	1.5%	6.8	2.1	1065	239	17.3	5.3	5635	1262
A100XXbbYYFAP100H1	0.465	11.8	500	152	1.5%	7.5	2.3	1184	265	19.9	6.1	6056	1357
A100XXbbYYFAP100H2	0.465	11.8	550	168	1.5%	8.3	2.5	1302	292	22.0	6.7	6649	1489
A100XXbbYYFAP100H2	0.465	11.8	600	183	1.5%	9.0	2.7	1495	335	24.0	7.3	7273	1629
A100XXbbYYFAP100H2	0.472	12.0	650	198	1.5%	9.8	3.0	1620	363	25.8	7.9	7967	1785
A100XXbbYYFAP100H2	0.472	12.0	700	213	1.5%	10.5	3.2	1745	391	28.5	8.7	8390	1879
A100XXbbYYFAP100H3	0.472	12.0	750	229	1.5%	11.3	3.4	1963	440	29.7	9.1	9321	2088
A100XXbbYYFAP100H3	0.472	12.0	800	244	1.5%	12.0	3.7	2094	469	32.3	9.9	9754	2185
A100XXbbYYFAP100H3	0.472	12.0	850	259	1.5%	12.8	3.9	2224	498	35.0	10.7	10180	2280
A100XXbbYYFAP100H4	0.480	12.2	900	274	1.5%	13.5	4.1	2467	553	36.2	11.0	11123	2492
A100XXbbYYFAP100H4	0.480	12.2	950	290	1.5%	14.3	4.3	2605	583	38.8	11.8	11558	2589
A100XXbbYYFAP100H4	0.480	12.2	1000	305	1.5%	15.0	4.6	2742	614	41.5	12.7	11986	2685
A100XXbbYYFAP100H5	0.504	12.8	1050	320	1.5%	15.8	4.8	3271	733	40.0	12.2	14093	3157
A100XXbbYYFAP100H5	0.504	12.8	1100	335	1.5%	16.5	5.0	3427	768	42.4	12.9	14574	3265
A100XXbbYYFAP100H5	0.504	12.8	1150	351	1.5%	17.3	5.3	3583	803	44.9	13.7	15048	3371
Fiber Count : 96F													
Attributes & Condition					Installation					NESC HEAVY			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A10096bb08FAP100H1	0.520	13.2	100	30	1.5%	1.5	0.5	312	70	2.1	0.6	2495	559
A10096bb08FAP100H1	0.520	13.2	150	46	1.5%	2.3	0.7	467	105	3.7	1.1	3126	700
A10096bb08FAP100H1	0.520	13.2	200	61	1.5%	3.0	0.9	623	140	5.6	1.7	3701	829
A10096bb08FAP100H1	0.528	13.4	250	76	1.5%	3.8	1.1	810	181	7.2	2.2	4540	1017
A10096bb08FAP100H1	0.528	13.4	300	91	1.5%	4.5	1.4	972	218	9.2	2.8	5108	1144
A10096bb08FAP100H1	0.528	13.4	350	107	1.5%	5.3	1.6	1090	244	11.3	3.4	5649	1265
A10096bb08FAP100H1	0.535	13.6	400	122	1.5%	6.0	1.8	1346	301	13.1	4.0	6421	1438
A10096bb08FAP100H1	0.535	13.6	450	137	1.5%	6.8	2.1	1514	339	14.9	4.5	7146	1601
A10096bb08FAP100H1	0.535	13.6	500	152	1.5%	7.5	2.3	1682	377	17.1	5.2	7678	1720
A10096bb08FAP100H2	0.543	13.8	550	168	1.5%	8.3	2.5	1919	430	18.6	5.7	8604	1927
A10096bb08FAP100H2	0.543	13.8	600	183	1.5%	9.0	2.7	2094	469	20.9	6.4	9138	2047
A10096bb08FAP100H2	0.551	14.0	650	198	1.5%	9.8	3.0	2268	508	22.9	7.0	9804	2196
A10096bb08FAP100H2	0.551	14.0	700	213	1.5%	10.5	3.2	2617	586	24.4	7.4	10808	2421
A10096bb08FAP100H3	0.559	14.2	750	229	1.5%	11.3	3.4	2804	628	25.1	7.7	12102	2711
A10096bb08FAP100H3	0.559	14.2	800	244	1.5%	12.0	3.7	2991	670	27.3	8.3	12676	2839
A10096bb08FAP100H3	0.559	14.2	850	259	1.5%	12.8	3.9	3178	712	29.5	9.0	13239	2966
A10096bb08FAP100H4	0.567	14.4	900	274	1.5%	13.5	4.1	3365	754	30.7	9.4	14316	3207
A10096bb08FAP100H4	0.567	14.4	950	290	1.5%	14.3	4.3	3557	797	33.0	10.0	14903	3338
A10096bb08FAP100H4	0.567	14.4	1000	305	1.5%	15.0	4.6	3739	837	35.2	10.7	15447	3460
A10096bb08FAP100H5	0.575	14.6	1050	320	1.5%	15.8	4.8	4187	938	36.0	11.0	16841	3772
A10096bb08FAP100H5	0.575	14.6	1100	335	1.5%	16.5	5.0	4387	983	38.2	11.6	17421	3902
A10096bb08FAP100H5	0.575	14.6	1150	351	1.5%	17.3	5.3	4586	1027	40.4	12.3	17993	4030

SAG TENSION CHART AERIAL ADSS SINGLE SHEATH CABLE - NESC HEAVY													
Ice thickness : 12.7 mm (0.5 in)								Wind Speed : 64 KMPH (40 MPH)					
Fiber Count : 144F													
Attributes & Condition					Installation					NESC Heavy			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A10144bb12FAP100H1	0.654	16.6	100	30	1.5%	1.5	0.5	498	112	1.8	0.5	3306	741
A10144bb12FAP100H1	0.654	16.6	150	46	1.5%	2.3	0.7	748	167	3.3	1.0	4066	911
A10144bb12FAP100H1	0.654	16.6	200	61	1.5%	3.0	0.9	997	223	5.0	1.5	4771	1069
A10144bb12FAP100H1	0.654	16.6	250	76	1.5%	3.8	1.1	1246	279	6.8	2.1	5433	1217
A10144bb12FAP100H1	0.661	16.8	300	91	1.5%	4.5	1.4	1533	343	8.4	2.5	6436	1442
A10144bb12FAP100H1	0.654	16.6	350	107	1.5%	5.3	1.6	1788	401	10.3	3.1	7106	1592
A10144bb12FAP100H1	0.661	16.8	400	122	1.5%	6.0	1.8	2094	469	11.8	3.6	8097	1814
A10144bb12FAP100H1	0.661	16.8	450	137	1.5%	6.8	2.1	2355	528	13.9	4.2	8756	1961
A10144bb12FAP100H1	0.654	16.6	500	152	1.5%	7.5	2.3	2679	600	15.5	4.7	9753	2185
A10144bb12FAP100H2	0.661	16.8	550	168	1.5%	8.3	2.5	2947	660	17.6	5.3	10407	2331
A10144bb12FAP100H2	0.669	17.0	600	183	1.5%	9.0	2.7	3215	720	19.2	5.9	11294	2530
A10144bb12FAP100H2	0.669	17.0	650	198	1.5%	9.8	3.0	3483	780	21.4	6.5	11937	2674
A10144bb12FAP100H2	0.677	17.2	700	213	1.5%	10.5	3.2	3925	879	23.6	7.2	12681	2841
A10144bb12FAP100H3	0.677	17.2	750	229	1.5%	11.3	3.4	4100	918	25.8	7.9	13313	2982
A10144bb12FAP100H3	0.677	17.2	800	244	1.5%	12.0	3.7	4206	942	27.3	8.3	14298	3203
A10144bb12FAP100H3	0.677	17.2	850	259	1.5%	12.8	3.9	4555	1020	29.5	9.0	14934	3345
A10144bb12FAP100H4	0.693	17.6	900	274	1.5%	13.5	4.1	4935	1105	30.4	9.3	16376	3668
A10144bb12FAP100H4	0.693	17.6	950	290	1.5%	14.3	4.3	5209	1167	32.6	9.9	17030	3815
A10144bb12FAP100H4	0.693	17.6	1000	305	1.5%	15.0	4.6	5483	1228	34.8	10.6	17675	3959
A10144bb12FAP100H5	0.701	17.8	1050	320	1.5%	15.8	4.8	5888	1319	36.0	11.0	18959	4247
A10144bb12FAP100H5	0.701	17.8	1100	335	1.5%	16.5	5.0	6169	1382	38.2	11.7	19613	4393
A10144bb12FAP100H5	0.701	17.8	1150	351	1.5%	17.3	5.3	6449	1445	40.5	12.3	20258	4538
Fiber Count : 288F													
Attributes & Condition					Installation					NESC Heavy			
Product Code	Cable Diameter		Span Length		Sag			Load		Vector Sag		Load	
	inch	mm	ft.	m	%	ft.	m	N	lbs	ft.	m	N	lbs
A10288bb24FAP100H1	0.756	19.2	100	30	1.5%	1.5	0.5	623	140	1.6	0.5	4039	905
A10288bb24FAP100H1	0.756	19.2	150	46	1.5%	2.3	0.7	935	209	2.9	0.9	4969	1113
A10288bb24FAP100H1	0.756	19.2	200	61	1.5%	3.0	0.9	1246	279	4.4	1.4	5830	1306
A10288bb24FAP100H1	0.756	19.2	250	76	1.5%	3.8	1.1	1558	349	6.1	1.9	6640	1487
A10288bb24FAP100H1	0.756	19.2	300	91	1.5%	4.5	1.4	1907	427	7.6	2.3	7698	1724
A10288bb24FAP100H1	0.756	19.2	350	107	1.5%	5.3	1.6	2224	498	9.4	2.9	8495	1903
A10288bb24FAP100H1	0.764	19.4	400	122	1.5%	6.0	1.8	2592	581	10.9	3.3	9602	2151
A10288bb24FAP100H1	0.764	19.4	450	137	1.5%	6.8	2.1	2916	653	12.8	3.9	10390	2327
A10288bb24FAP100H1	0.764	19.4	500	152	1.5%	7.5	2.3	3365	754	13.9	4.2	11850	2654
A10288bb24FAP100H2	0.764	19.4	550	168	1.5%	8.3	2.5	3701	829	15.8	4.8	12645	2833
A10288bb24FAP100H2	0.772	19.6	600	183	1.5%	9.0	2.7	4187	938	17.3	5.3	13809	3093
A10288bb24FAP100H2	0.772	19.6	650	198	1.5%	9.8	3.0	4536	1016	18.7	5.7	15002	3360
A10288bb24FAP100H2	0.772	19.6	700	213	1.5%	10.5	3.2	4885	1094	20.6	6.3	15807	3541
A10288bb24FAP100H3	0.780	19.8	750	229	1.5%	11.3	3.4	5327	1193	22.2	6.8	16976	3803
A10288bb24FAP100H3	0.780	19.8	800	244	1.5%	12.0	3.7	5683	1273	24.1	7.3	17775	3982
A10288bb24FAP100H3	0.780	19.8	850	259	1.5%	12.8	3.9	6144	1376	25.7	7.8	18967	4249
A10288bb24FAP100H4	0.787	20.0	900	274	1.5%	13.5	4.1	6505	1457	27.1	8.2	20178	4520
A10288bb24FAP100H4	0.787	20.0	950	290	1.5%	14.3	4.3	6866	1538	29.0	8.8	20983	4700
A10288bb24FAP100H4	0.787	20.0	1000	305	1.5%	15.0	4.6	7228	1619	31.0	9.4	21776	4878
A10288bb24FAP100H5	0.795	20.2	1050	320	1.5%	15.8	4.8	7851	1759	31.9	9.7	23536	5272
A10288bb24FAP100H5	0.795	20.2	1100	335	1.5%	16.5	5.0	8225	1842	33.9	10.3	24351	5455
A10288bb24FAP100H5	0.795	20.2	1150	351	1.5%	17.3	5.3	8599	1926	35.9	10.9	25157	5635

Ordering Information

Other Fibers counts, types and tube colours sequences may be available on request, please create product code from the table below.

Product type (aa)		Fiber count (0004 – 0288)				Fiber type (bb)		No. of active tubes (01-24)		Cable core type (c)	Fibers/tubes colour code (d)	Jacket/ Sheath type (ee)		Running number		Special Request (ff)	
-		1				2		3		4	5	6		7		8	
A	1	0	0	1	2	S	N	0	1	F	A	P	1	0	0	L	2

Create the desired Product Code following the instructions below:

1. Select fiber count by indicating the corresponding number from 0004 to 0288
2. bb - Select fiber code corresponding to requested fiber type among following options

FiberCode	Fiber type (ITU-T)	Brand Name
SN ¹	G.657.A1/G.652.D	STL NOVA 250
SL ²	G.657.A1/G.652.D	STL NOVA 250
S2	G.657.A2	STL HD A2 250

¹ Cables made in India with Nova Fiber
² Cables made in USA with Nova Fiber

3. Select number of active tubes/bundles by indicating the corresponding number from 01 to 24
4. c - Core Type Selection

F	Dry tubes & Dry Core
---	----------------------

5. d - Color sequence*

A	EIA/TIA 598 C
---	---------------

*Color sequence Code shall vary for other color sequences

6. ee - Jacket type selection

P	1	HDPE/MDPE Jacket
---	---	------------------

8. ff - Loading condition & span

Code	Description
L	NESC Light
M	NESC Medium
H	NESC Heavy

Code	Span Length (ft.)	Span Length (m)
1	< 500	< 150
2	500~700	150~200
3	700~850	200~250
4	850~1000	250~300
5	1000~1150	300~350

For additional information please contact your sales representative.

You can also visit our website at www.stl.tech

03/052026

The information given herein, including drawings, illustrations and schematics are intended for illustration purposes only and is believed to be reliable. However, STL makes no warranties to its accuracy or completeness and disclaims any liability in connection with its use. STL obligations shall be only set forth in STL standard terms and conditions of the sale and in no case, STL be liable for any incidental, indirect or consequential damages arising out of sale, resale, use or misuse of the product. Users of STL products should make their own evaluation to determine the suitability of such each product for the specific application.