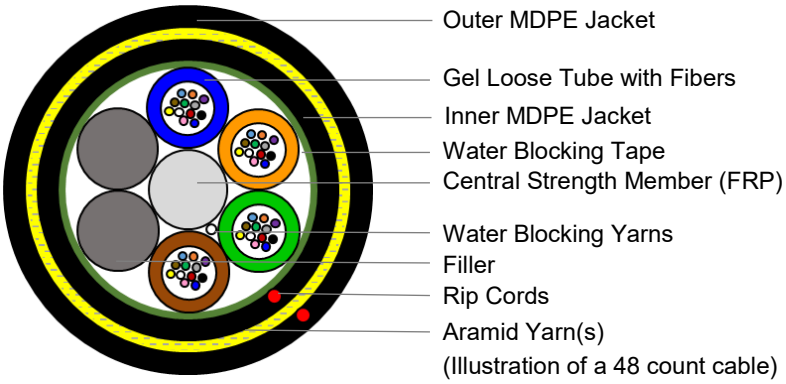
LA-ADSS-048 MAX All Dielectric Self Supporting Fiber Optic Cable Series

Gel-Filled, Dry Core, Double Jacket Non Armored, Flexible Loose Buffer Tubes

Product Features

- Ideal for aerial installations with maximum span of 2000FT under NESC-H or 2900FT under NESC-M or 3000 - 3300FT under NESC-L
- Optical fiber counts up to 288
- Available with GR-20 certified single-mode and multi-mode optical fibers
- Designed and engineered in the US



(Illustration of a 48 count cable)

Product Description

Lexington Ames' ADSS-048 MAX All Dielectric Self Supporting Single Jacket Loose Buffer Tube Cable is designed to meet the requirements specific to the North American weather grade standards for aerial installations and provides the optical and mechanical performances perfectly equivalent to the cables that are being wide installed in North America.

The cable core consists of optical fibers, dry water swellable material, and PBT or PP loose buffer tubes, and poly ethylene fillers (if necessary), SZ-stranded around the dielectric central strength member with water blocking yarns. The cable structure is reinforced by the application of a water blocking core wrapping tape, an inner MDPE jacket, and high tensile strength Aramid yarns covered by a rip cord and an flexible outer MDPE jacket. The construction of the cable guarantees flexibility and complete water blocking to ensure easy installation and long-term reliability.

Standards: ITU-T G652.D/G657.A1, GR-20, IEEE 1222, TIA 598-D, IEC 60793-1/2, ISO 9001, TL 9000, RUS-Compliant

Specifications					
Fiber Count	12-72	96	144	192-216	288
Cable OD - in. (mm)	0.626 (15.9)	0.673 (17.1)	0.776 (19.7)	0.799 (20.3)	0.874 (22.2)
Weight - lb/kft (kg/km)	131 (195)	152 (226)	201 (299)	204 (303)	248 (369)
Fibers per Tube	12	12	12	12	12
Tube Positions	6	8	12	18 (6+12)	24 (9+15)
Recommended Initial Sag	Span 1969FT (600M), Sag 2.5%				
MRCL - lb (N)	5568 (24768)	5912 (26298)	6730 (29937)	6839 (30421)	7528 (33486)

Mechanical Properties			
Minimum Bending Radius, Loaded	20 x OD	Maximum Impact Resistance	2.2 lbf (9.8 N)
Minimum Bending Radius, Unloaded	10 x OD	Maximum Crush Resistance	495 lbf (2200 N)
Operation Temperature Range	-40°C ~ +75°C (Storage), -10°C ~ +50°C (Installation), -40°C ~ +70°C (Operation)		

Optical Fiber					
Fiber type	Wavelengths (nm)	Max. Attenuation	Cladding Diameter	MFD@1310nm	Coated Diameter
G.652.D (D0)	1310/1550	0.35/0.25 dB/km	125 ± 0.7 µm	9.2 ± 0.4 µm	245 ± 15 µm
G.657.A1 (A1)	1310/1550	0.35/0.25 dB/km	125 ± 0.7 µm	8.9 ± 0.4 µm	245 ± 15 µm

Part Number: LA-ADSS-038-L1-L2-L3-L4

L1 = Total fiber count (000) L2 = Fiber count per tube (12 or 24) L3 = Fiber type (D0, A1, M1, M2, M3, M4) L4 = PM (PP tube and MDPE Jacket)

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Sag-Tension Data - 2.5% Installation Sag

NESC Light Load - Wind speed 96 KMH or 60 MPH, Ice thickness 0 mm

Fiber Count	Span		Installation Sag and Tension			Maximum Loaded Sag and Tension		
	FT	M	Initial Sag %	lbs	kgf	Sag %	lbs	kgf
12-72	3346	1020	2.5	2207	1001	5.3	8278	3755
96	3215	980	2.5	2453	1113	5.2	8548	3878
144	3084	940	2.5	3117	1414	5.0	9466	4294
192-216	3084	940	2.5	3153	1430	5.0	9620	4364
288	3018	920	2.5	3761	1706	4.8	10447	4739

NESC Medium Load - Wind speed 65 KMH or 40 MPH, Ice thickness 6.5 mm

Fiber Count	Span		Installation Sag and Tension			Maximum Loaded Sag and Tension		
	FT	M	Initial Sag %	lbs	kgf	Sag %	lbs	kgf
12-72	3018	920	2.5	1991	903	4.3	5454	2474
96	2953	900	2.5	2253	1022	4.2	5764	2615
144	2887	880	2.5	2918	1324	4.1	6609	2998
192-216	2887	880	2.5	2952	1339	4.1	6721	3048
288	2882	860	2.5	3516	1595	4.0	7399	3356

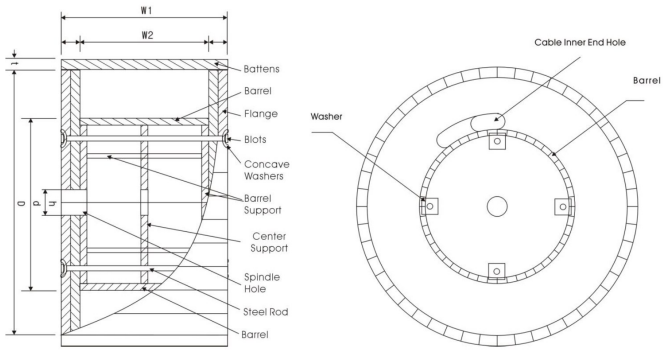
NESC Heavy Load - Wind speed 65 KMH or 40 MPH, Ice thickness 12.5 mm

Fiber Count	Span	Span	Installation Sag and Tension			Maximum Loaded Sag and Tension		
	FT	M	Initial Sag %	lbs	kgf	Sag %	lbs	kgf
12-72	1969	600	2.5	1298	589	4.6	5568	2526
96	1969	600	2.5	1502	681	4.6	5912	2682
144	1969	600	2.5	1990	903	4.5	6730	3053
192-216	1969	600	2.5	2013	913	4.5	6839	3102
288	1969	600	2.5	2453	1113	4.4	7528	3415

Packing and Shipping Information

Reel Information

Fiber Count	Packing Dimension, in. (mm)		Reel Dimension, in. (mm)				
	Height	Width	Reel Diameter	Barrel Diameter	Outer Width	Inner Width	Arbor Hole D.
12-72	71.7 (1820)	29.5 (565)	68.9 (1750)	31.5 (800)	29.5 (565)	23.6 (600)	4.33
96	66.5 (1690)	41.3 (1050)	63.0 (1600)	31.5 (800)	41.3 (1050)	35.4 (900)	4.33
144	74.4 (1890)	41.3 (1050)	70.9 (1800)	31.5 (800)	41.3 (1050)	35.4 (900)	4.33
192-216	78.3 (1990)	41.3 (1050)	74.8 (1900)	35.4 (900)	41.3 (1050)	35.4 (900)	4.33
288	84.3 (2140)	41.3 (1050)	80.7 (2050)	37.4 (950)	41.3 (1050)	34.3 (870)	4.33

Shipping Information

Fiber Count	Reel Length		Weight, lbs (kg)			20FT Container		40FT Container	
	FT	KM	Net Weight	Reel Weight	Gross Weight	Reel Count	Total Length	Reel Count	Total Length
12-72	13,123	4	1720 (780)	802 (364)	2522 (1144)	9	118,107 FT	19	249,337 FT
96	13,123	4	1993 (904)	882 (400)	2875 (1304)	6	78,738 FT	14	183,722 FT
144	13,123	4	2637 (1196)	1038 (471)	3675 (1667)	6	78,738 FT	12	157,476 FT
192-216	13,123	4	2672 (1212)	1133 (514)	3805 (1726)	5	65,615 FT	11	144,353 FT
288	13,123	4	3254 (1476)	1442 (654)	4696 (2130)	5	65,615 FT	11	144,353 FT