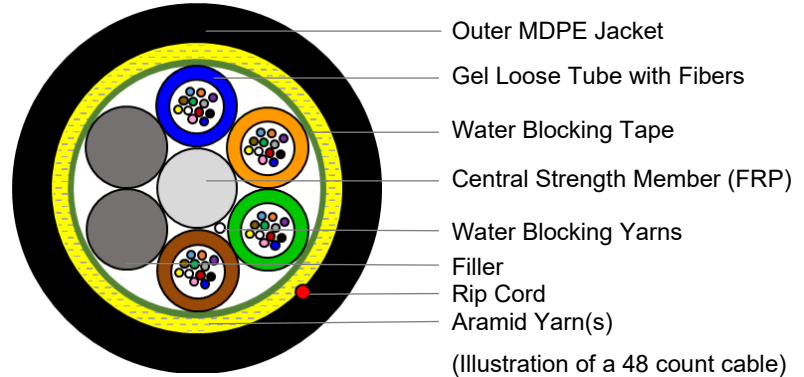


LA-ADSS-038 All Dielectric Self Supporting Fiber Optic Cable Series

Gel-Filled, Dry Core, Single Jacket Non Armored, Flexible Loose Buffer Tubes, Easy Installation

Product Features

- Ideal for aerial installations with maximum span of 600FT under NESC-H or 900 - 1000FT under NESC-M or 960 - 1140FT 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



Product Description

Lexington Ames' ADSS-038 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, gel-filled 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, 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	288
Cable OD - in. (mm)	0.437 (11.1)	0.488 (12.4)	0.598 (15.2)	0.701 (17.8)
Loose Tube Diameter (mm)	2.2	2.2	2.2	2.2
Sheath thickness (mm)	1.6	1.6	1.6	1.6
Weight - lb/kft (kg/km)	63.2 (94)	79.3 (118)	118.3 (176)	155.9 (232)
Fibers per Tube	12	12	12	12
Tube Positions	6	8	12	24 (9+15)
Recommended Initial Sag	Span 600FT (183M), Sag 1.5% (9FT or 2.7M)			
MRCL - lb (N)	2136 (9500)	2293 (10200)	2698 (12000)	3260 (14500)

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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LA-ADSS-038 All Dielectric Self Supporting Fiber Optic Cable Series

Sag-Tension Data - 1.5% 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	1142	348	1.5	602	273	3.7	1483	673
96	1076	328	1.5	711	322	3.6	1592	722
144	961	293	1.5	948	430	3.4	1834	832
288	945	288	1.5	1230	558	3.2	2180	989

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	978	298	1.5	515	234	3.9	1498	679
96	928	283	1.5	613	278	3.7	1581	717
144	879	268	1.5	868	394	3.5	1843	836
288	879	268	1.5	1144	519	3.5	2175	987

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	600	183	1.5	316	143	4.2	1501	681
96	600	183	1.5	396	180	4.1	1614	732
144	600	183	1.5	592	269	4.0	1887	856
288	600	183	1.5	781	354	3.8	2169	984

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	61.0 (1550)	22.2 (565)	59.1 (1500)	27.6 (700)	22.2 (565)	17.5 (445)	4.33
96	65.0 (1650)	22.2 (565)	63.0 (1600)	27.6 (700)	22.2 (565)	17.5 (445)	4.33
144	69.7 (1770)	29.5 (750)	66.9 (1700)	31.5 (800)	29.5 (750)	23.6 (600)	4.33
288	68.5 (1740)	41.3 (1050)	65.0 (1650)	31.5 (800)	41.3 (1050)	35.4 (900)	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	829 (376)	452 (205)	1281 (581)	14	183,722 FT	29	380,567 FT
96	13,123	4	1041 (472)	500 (227)	1541 (699)	13	170,599 FT	28	367,444 FT
144	13,123	4	1552 (704)	767 (348)	2319 (1052)	9	118,107 FT	19	249,337 FT
288	13,123	4	2046 (928)	919 (417)	2985 (1345)	6	78,738 FT	13	170,599 FT

