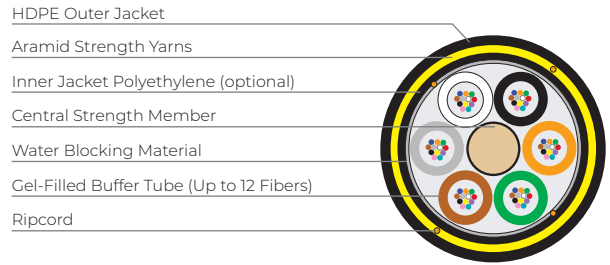
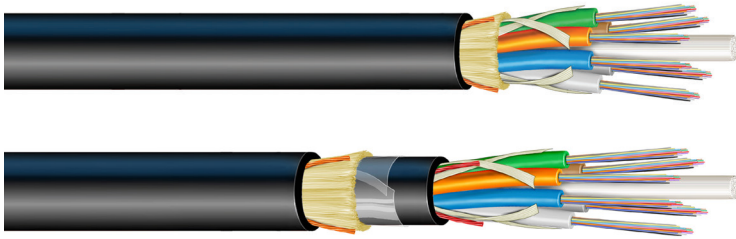


# Long Span ADSS

All-Dielectric Self Supporting Loose Tube Cable



## OVERVIEW

Prysmian's Long Span ADSS version provides reliable self-support performance for up to 2,600 feet (800 meters). Each Long Span ADSS cable is custom engineered for optimum placement on utility towers and to operate under full weather load, ensuring safe reliable lifetime performance. For installation on high-voltage lines up to 275 kV, an optional track-resistant jacket prevents dry-band arcing damage. Available up to 288 fibers, cables greater than 72 fibers utilize a 24 fiber per tube design to reduce environmental load (12 fibers per tube design is also available for fiber counts of 84-144).

## SPECIFICATIONS / RATINGS

<b>Applications</b>	Self-supporting aerial deployment for communications & power transmission space
<b>Constructions</b>	All-dielectric round - typical span lengths up to 2,600' (800m), single and dual jacket, and track resistant
<b>Fiber Count</b>	12 to 288 fibers in color coded buffer tubes
<b>Fiber Types</b>	Single-mode / bend-insensitive / NZDSF / multimode / hybrid
<b>Options</b>	Track resistant jacket, SafeStrain or ZeroStrain designs
<b>Standards</b>	IEEE 1222-2011, ANSI / ICEA 640, RUS 7 CFR 1755 (RUS LISTED), Telecordia GR-20 IEC 60794-4-20
<b>Registered Supplier</b>	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001
<b>Other Versions</b>	ezSpan ADSS



## FEATURES AND BENEFITS

### Proven Long Span Installation & Use

- Tailored designs span distances up to 2,600' (800m) without interrupting power
- Higher count designs utilize 24 fiber per tube to reduce diameter and environmental loading

### Easy Cable Entry & Preparation

- Ripcord speeds cable entry & outer jacket removal
- Swellable binders speed cable preparation
- Available bend-insensitive single-mode fiber
- 2.6 mm tube with 12 fibers per tube; 3.0 mm tube with 24 fibers per tube (with two 12 fiber binder groups)

### Reliable Lifetime Performance

- Custom engineered for operation under full load
- Available with zero fiber strain at the maximum rated cable load (MRCL) or with a SafeStrain design limiting fiber strain to 0.20%.
- Guaranteed standards-based performance



## Prysmian

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## PLP ATTACHMENT HARDWARE CONSIDERATIONS

- Dead-ends indicated are Limited & Medium Tension dead-ends. The Limited Tension dead-end is designed for a maximum long-term tension of 1000 lbs and short-term tension of 2500 lbs. The Medium Tension dead-end is designed for 2000 lbs for long-term tensions and 4000 lbs for short-term loads. Semi-high or High Tension dead-ends should be used for higher tension ratings.
- Limited Tension dead ends are limited to a maximum span length of 600 feet.
- C1E1 designates thimble clevis and extension link (recommended).
- Aluminum Suspension is designed for in-line support with a maximum angle change of 20° and a maximum span of 600 feet.
- Spans of > 600 to 1200 feet require reinforcing rods (SSR).
- The “S” designates anchor shackle and eye-nut (recommended).
- Vibration dampers may be required.
- Aluminum support is designed for in-line support with a maximum angle change of 20° and a maximum span of 600 feet.

## INSTALLATION SPECIFICATIONS

### Minimum Bend Radius

With load: 20x cable diameter

No load: 10x cable diameter

### Temperature Range

Shipping and Storage	-40° F to +167° F	(-40° C to +75° C)
Installation	-22° F to +140° F	(-30° C to +60° C)
Operation	-40° F to +158° F	(-40° C to +70° C)



# Long Span ADSS

All-Dielectric Self Supporting Loose Tube Cable



Single HDPE Jacket (without track resistance) SafeStrain Design | ADLS | NESC Light Load  
6-72 fibers ezSPAN ADSS design is recommended

## 84 to 144F

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable OD (inches)	Installation Load (lbf)	Installation Sag	Dead End	AI Support < 600 ft Span	AI Suspension w/o SSR (< 600 ft)	AI Suspension with SSR
up to 600	ADLS1025-24-HB-XXX	1025	0.492	491	1.5	2872004C1E1	4450100	4450200S	4470200S
700	ADLS1025-24-HB-XXX	1025	0.492	491	1.5	2872100C1E1	4450100	4450200S	4470200S
800	ADLS1115-24-HB-XXX	1115	0.494	565	1.5	2872100C1E1	4450100	4450200S	4470200S
900	ADLS1295-24-HB-XXX	1295	0.498	644	1.5	2872100C1E1	4450100	4450200S	4470200S

## 156 to 216F

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable OD (inches)	Installation Load (lbf)	Installation Sag	Dead End	AI Support < 600 ft Span	AI Suspension w/o SSR (< 600 ft)	AI Suspension with SSR
up to 500	ADLS1025-24-HB-XXX	1025	0.616	500	1.5	2872008C1E1	4450102	4450202S	4470202S
600	ADLS1115-24-HB-XXX	1115	0.618	603	1.5	2872008C1E1	4450102	4450202S	4470202S
700	ADLS1295-24-HB-XXX	1295	0.621	709	1.5	2872104C1E1	4450102	4450202S	4470202S
800	ADLS1475-24-HB-XXX	1475	0.624	818	1.5	2872104C1E1	4450102	4450202S	4470202S
900	ADLS1655-24-HB-XXX	1655	0.626	928	1.5	2872104C1E1	4450103	4450203S	4470203S
1000	ADLS1835-24-HB-XXX	1835	0.629	1040	1.5	2872104C1E1	4450103	4450203S	4470203S

## 228 to 288F

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable OD (inches)	Installation Load (lbf)	Installation Sag	Dead End	AI Support < 600 ft Span	AI Suspension w/o SSR (< 600 ft)	AI Suspension with SSR
up to 450	ADLS1025-24-HB-XXX	1025	0.743	608	1.5	2872011C1E1	4450104	4450204S	4470205S
500	ADLS1155-24-HB-XXX	1155	0.745	678	1.5	2872011C1E1	4450104	4450204S	4470205S
600	ADLS1385-24-HB-XXX	1385	0.748	820	1.5	2872011C1E1	4450105	4450204S	4470205S
700	ADLS1605-24-HB-XXX	1605	0.751	965	1.5	2872107C1E1	4450105	4450205S	4470205S
800	ADLS1835-24-HB-XXX	1835	0.754	1111	1.5	2872107C1E1	4450105	4450205S	4470205S
900	ADLS2105-24-HB-XXX	2105	0.757	1262	1.5	2872107C1E1	4450105	4450205S	4470205S
1000	ADLS2325-24-HB-XXX	2325	0.760	1413	1.5	2872107C1E1	4450105	4450205S	4470205S

For longer span applications, contact Prysmian for specific cable designs



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# Long Span ADSS

All-Dielectric Self Supporting Loose Tube Cable



Single HDPE Jacket (without track resistance) SafeStrain Design | ADLS | NESC Medium Load  
6-72 fibers ezSPAN ADSS design is recommended

## 84 to 144F

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable OD (inches)	Installation Load (lbf)	Installation Sag	Dead End	AI Support < 600 ft Span	AI Suspension w/o SSR (< 600 ft)	AI Suspension with SSR
up to 500	ADLS1025-24-HB-XXX	1025	0.492	351	1.5	2872004C1E1	4450100	4450200S	4470200S
600	ADLS1155-24-HB-XXX	1155	0.495	425	1.5	2872004C1E1	4450100	4450200S	4470200S
700	ADLS1385-24-HB-XXX	1385	0.500	505	1.5	2872100C1E1	4450100	4450200S	4470200S
800	ADLS1565-24-HB-XXX	1565	0.503	584	1.5	2872100C1E1	4450100	4450200S	4470201S
900	ADLS1785-24-HB-XXX	1785	0.508	668	1.5	2872100C1E1	4450100	4450200S	4470201S
1000	ADLS2015-24-HB-XXX	2015	0.513	754	1.5	2872101C1E1	4450100	4450200S	4470201S

## 156 to 216F

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable OD (inches)	Installation Load (lbf)	Installation Sag	Dead End	AI Support < 600 ft Span	AI Suspension w/o SSR (< 600 ft)	AI Suspension with SSR
up to 400	ADLS1025-24-HB-XXX	1025	0.616	400	1.5	2872008C1E1	4450102	4450202S	4470202S
500	ADLS1155-24-HB-XXX	1155	0.619	503	1.5	2872008C1E1	4450102	4450202S	4470202S
600	ADLS1385-24-HB-XXX	1385	0.622	611	1.5	2872008C1E1	4450102	4450202S	4470202S
700	ADLS1655-24-HB-XXX	1655	0.626	722	1.5	2872104C1E1	4450103	4450203S	4470203S
800	ADLS1875-24-HB-XXX	1875	0.630	834	1.5	2872104C1E1	4450103	4450203S	4470203S
900	ADLS2105-24-HB-XXX	2105	0.634	948	1.5	2872104C1E1	4450103	4450203S	4470203S
1000	ADLS2375-24-HB-XXX	2375	0.638	1067	1.5	2872104C1E1	4450103	4450203S	4470203S

## 228 to 288F

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable OD (inches)	Installation Load (lbf)	Installation Sag	Dead End	AI Support < 600 ft Span	AI Suspension w/o SSR (< 600 ft)	AI Suspension with SSR
up to 375	ADLS1025-24-HB-XXX	1025	0.743	506	1.5	2872011C1E1	4450104	4450204S	4470205S
400	ADLS1115-24-HB-XXX	1115	0.745	542	1.5	2872011C1E1	4450104	4450204S	4470205S
500	ADLS1385-24-HB-XXX	1385	0.748	684	1.5	2872011C1E1	4450105	4450204S	4470205S
600	ADLS1655-24-HB-XXX	1655	0.752	828	1.5	2872011C1E1	4450105	4450205S	4470205S
700	ADLS1925-24-HB-XXX	1925	0.755	975	1.5	2872107C1E1	4450105	4450205S	4470205S
800	ADLS2235-24-HB-XXX	2235	0.759	1127	1.5	2872107C1E1	4450105	4450205S	4470205S
900	ADLS2505-24-HB-XXX	2505	0.762	1279	1.5	2872107C1E1	4450105	4450205S	4470205S

For longer span applications, contact Prysmian for specific cable designs



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# Long Span ADSS

All-Dielectric Self Supporting Loose Tube Cable



Single HDPE Jacket (without track resistance) SafeStrain Design | ADLS | NESC Heavy Load  
6-72 fibers ezSPAN ADSS design is recommended

## 84 to 144F

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable OD (inches)	Installation Load (lbf)	Installation Sag	Dead End	AI Support < 600 ft Span	AI Suspension w/o SSR (< 600 ft)	AI Suspension with SSR
up to 300	ADLS1025-12-HB-XXX	1025	0.492	210	1.5	2872004C1E1	4450100	4450200S	4470200S
400	ADLS1295-24-HB-XXX	1295	0.498	286	1.5	2872004C1E1	4450100	4450200S	4470200S
500	ADLS1605-24-HB-XXX	1605	0.504	266	1.5	2872004C1E1	4450100	4450200S	4470201S
600	ADLS1925-24-HB-XXX	1925	0.511	450	1.5	2872005C1E1	4450100	4450200S	4470201S
700	ADLS2285-24-HB-XXX	2285	0.518	538	1.5	2872101C1E1	4450100	4450200S	4470201S
800	ADLS2615-24-HB-XXX	2615	0.525	630	1.5	2872101C1E1	4450100	4450200S	4470201S

## 156 to 216F

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable OD (inches)	Installation Load (lbf)	Installation Sag	Dead End	AI Support < 600 ft Span	AI Suspension w/o SSR (< 600 ft)	AI Suspension with SSR
up to 200	ADLS1025-24-HB-XXX	1025	0.616	200	1.5	2872008C1E1	4450102	4450202S	4470202S
300	ADLS1115-24-HB-XXX	1115	0.618	301	1.5	2872008C1E1	4450102	4450202S	4470202S
400	ADLS1475-24-HB-XXX	1475	0.624	409	1.5	2872008C1E1	4450102	4450202S	4470202S
500	ADLS1835-24-HB-XXX	1835	0.629	520	1.5	2872008C1E1	4450103	4450203S	4470203S
600	ADLS2195-24-HB-XXX	2195	0.635	635	1.5	2872008C1E1	4450103	4450203S	4470203S
700	ADLS2555-24-HB-XXX	2555	0.641	753	1.5	2872104C1E1	4450103	4450203S	4470203S

## 240 to 288F

Span Distance (ft)	Cable Part Number	Maximum Rate Cable Load (MRCL) (lbf)	Cable OD (inches)	Installation Load (lbf)	Installation Sag	Dead End	AI Support < 600 ft Span	AI Suspension w/o SSR (< 600 ft)	AI Suspension with SSR
up to 250	ADLS1025-24-HB-XXX	1025	0.743	338	1.5	2872011C1E1	4450104	4450204S	4470205S
300	ADLS1245-24-HB-XXX	1245	0.746	408	1.5	2872011C1E1	4450104	4450204S	4470205S
400	ADLS1655-24-HB-XXX	1655	0.752	552	1.5	2872011C1E1	4450105	4450205S	4470205S
500	ADLS2105-24-HB-XXX	2105	0.757	701	1.5	2872011C1E1	4450105	4450205S	4470205S
600	ADLS2505-24-HB-XXX	2505	0.762	853	1.5	2872011C1E1	4450105	4450205S	4470205S

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# Long Span ADSS

All-Dielectric Self Supporting Loose Tube Cable



## Dual HDPE Jacket (without track resistance) SafeStrain™ Design | ADLD

Fiber Count	Span ft (m)	NESC Heavy, 1% Sag		NESC Medium, 1% Sag		NESC Light, 1% Sag	
		Diameter inches (mm)	Weight lb/kft (kg/km)	Diameter inches (mm)	Weight lb/kft (kg/km)	Diameter inches (mm)	Weight lb/kft (kg/km)
<b>2 - 72</b>	200 (61)	0.53 (13.4)	97 (144)	0.52 (13.3)	95 (142)	0.52 (13.3)	95 (142)
	400 (122)	0.55 (13.9)	103 (153)	0.53 (13.5)	98 (146)	0.53 (13.4)	97 (144)
	600 (183)	0.57 (14.4)	109 (162)	0.55 (13.9)	103 (153)	0.54 (13.6)	99 (148)
	800 (244)	0.60 (15.3)	122 (182)	0.56 (14.2)	106 (158)	0.55 (13.9)	103 (153)
	1000 (305)	0.64 (16.2)	135 (201)	0.57 (14.5)	111 (165)	0.56 (14.1)	106 (157)
	1200 (366)	0.67 (17.0)	147 (218)	0.60 (15.3)	122 (182)	0.57 (14.4)	110 (163)
	1600 (488)			0.65 (16.5)	140 (208)	0.62 (15.7)	127 (189)
	2000 (610)			0.69 (17.6)	157 (234)	0.65 (16.6)	141 (210)
<b>84 - 144</b>	200 (61)	0.57 (14.6)	114 (169)	0.57 (14.6)	114 (169)	0.57 (14.6)	114 (169)
	400 (122)	0.59 (15.1)	120 (179)	0.58 (14.8)	116 (172)	0.58 (14.6)	114 (170)
	600 (183)	0.61 (15.5)	127 (188)	0.59 (15.1)	120 (179)	0.59 (14.9)	117 (175)
	800 (244)	0.65 (16.5)	141 (210)	0.60 (15.4)	124 (184)	0.60 (15.1)	121 (180)
	1000 (305)	0.68 (17.3)	154 (229)	0.62 (15.8)	130 (193)	0.60 (15.4)	124 (184)
	1200 (366)	0.71 (17.9)	164 (244)	0.65 (16.5)	141 (210)	0.62 (15.7)	129 (192)
	1600 (488)	0.77 (19.6)	192 (286)	0.70 (17.8)	161 (240)	0.67 (16.9)	147 (219)
	2000 (610)			0.74 (18.8)	179 (267)	0.71 (17.9)	164 (244)
<b>156 - 216</b>	200 (61)	0.70 (17.8)	157 (234)	0.70 (17.8)	156 (233)	0.70 (17.8)	156 (233)
	400 (122)	0.72 (18.3)	165 (245)	0.71 (18.0)	160 (238)	0.70 (17.9)	159 (236)
	600 (183)	0.75 (19.0)	178 (265)	0.72 (18.3)	166 (247)	0.72 (18.2)	163 (243)
	800 (244)	0.77 (19.6)	189 (281)	0.73 (18.6)	171 (254)	0.73 (18.4)	168 (250)
	1000 (305)	0.80 (20.4)	202 (301)	0.76 (19.3)	182 (272)	0.74 (18.7)	172 (255)
	1200 (366)	0.83 (21.0)	215 (319)	0.78 (19.9)	193 (288)	0.76 (19.4)	184 (274)
	1600 (488)			0.83 (21.0)	215 (319)	0.80 (20.4)	202 (301)
	2000 (610)			0.87 (22.0)	235 (349)	0.84 (21.3)	220 (327)
<b>240 - 288</b>	200 (61)	0.83 (21.1)	207 (308)	0.83 (21.0)	205 (305)	0.83 (21.0)	205 (305)
	400 (122)	0.85 (21.5)	216 (321)	0.84 (21.3)	211 (313)	0.83 (21.2)	209 (311)
	600 (183)	0.87 (22.2)	229 (340)	0.85 (21.6)	218 (324)	0.84 (21.5)	215 (319)
	800 (244)	0.90 (22.9)	244 (363)	0.87 (22.2)	229 (340)	0.86 (21.7)	220 (327)
	1000 (305)	0.93 (23.5)	257 (382)	0.89 (22.6)	238 (354)	0.88 (22.3)	232 (345)
	1200 (366)	0.95 (24.2)	272 (404)	0.91 (23.2)	249 (371)	0.90 (22.8)	242 (360)
	1600 (488)			0.96 (24.3)	274 (408)	0.94 (23.8)	264 (393)
	2000 (610)					0.97 (24.7)	284 (422)

For zero strain and rack resistant Jacket options, Contact your Prysmian representative or for information about designs with alternative span requirements or cable diameters. Cable diameters and weights may vary depending on specific span design requirements.



# Long Span ADSS

All-Dielectric Self Supporting Loose Tube Cable



## ORDERING CHECK LIST

- 1 Installation Location: City \_\_\_\_\_ State \_\_\_\_\_
- 2 Cable Length Marking:  Feet  Meters
- 3 # of Jackets:  Single Jacket  Dual Jacket
- 4 Number of Fibers: \_\_\_\_\_
- 5 Fiber Type & Grade: \_\_\_\_\_
- 6 Max. Span Length: (ft or m) \_\_\_\_\_
- 7 Installation Sag:  1.5%  Other (Please Specify) \_\_\_\_\_
- 8 NESC Loading Condition:  Light  Medium  Heavy  
 Other (Define Ice & Wind Load) \_\_\_\_\_
- 9 Line Voltage:  None  Distribution Line  
Transmission Line \_\_\_\_\_  
Phase to Phase (kV) \_\_\_\_\_  
Phase to Ground \_\_\_\_\_
- 10 Fiber Strain:  Safe Strain  Zero Strain



# Long Span ADSS

All-Dielectric Self Supporting Loose Tube Cable



## Ordering Guide

The Prysmian part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

**Example:** Long Span ADSS | single jacket (24 fibers/tube with two 12 fiber binder groups) with 144 single-mode fibers (printed in feet)

<b>1</b> LENGTH MARKINGS	<b>2</b> PRODUCT FAMILY	<b>3</b> CONSTRUCTION	<b>4</b> LOAD RATING	<b>5</b> FIBER GROUPING	<b>6</b> FIBER TYPE	<b>7</b> FIBER COUNT	<b>8</b> FIBER GRADE
F	ADL	S	XXXX	24	HB	144	E3

PART NUMBER CONSTRUCTION	
<b>1</b>	<b>LENGTH MARKINGS</b>
	F = Feet or M = Meters
<b>2</b>	<b>PRODUCT FAMILY</b>
	ADL = Long Span ADSS
<b>3</b>	<b>CONSTRUCTION</b>
	S = Single Jacket
	D = Double Jacket
	T = Track Resistant Jacket
<b>4</b>	<b>LOAD RATING</b>
	Max Rated Cable Load (lbs)
<b>5</b>	<b>FIBER GROUPING</b>
	12 = 12f per tube
	24 = 24f per tube (12 fibers per unit)

FIBER INFORMATION					
<b>6</b>	<b>FIBER TYPE</b>				
<b>SINGLE-MODE</b>					
	HB = Single-Mode (ITU G.652 C & D) Low Water Peak				
	ES = Enhanced Single-Mode (ITU G.652 C & D)				
	B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)				
	B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)				
	TU = TeraLight Ultra Single-Mode (ITU G.655 & G.656)				
<b>MULTIMODE</b>		<b>Wavelength (nm)</b>	<b>Bandwidth (MHz)</b>	<b>1 GbE Dist (m)</b>	<b>10 GbE Dist (m)</b>
	G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
	G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
	G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
	G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___
<b>7</b>	<b>FIBER COUNT</b>				
	002 to 288 fibers				
<b>8</b>	<b>FIBER GRADE</b>				
<b>SINGLE-MODE</b>					
<b>Attenuation (dB/km)</b>		<b>Wavelength (nm)</b>	<b>Fiber Type</b>		
E1 = 0.40/0.40/0.30		1310/1383/1550	HB or ES		
E3 = 0.35/0.35/0.25		1310/1383/1550	HB, ES, B1, or B2		
NA = 0.40/0.25		1310/1550	TeraLight Ultra Single-Mode		
<b>MULTIMODE</b>					
<b>Attenuation (dB/km)</b>		<b>Wavelength (nm)</b>			
M2 = 3.5/1.0		850/1300			
M3 = 3.0/1.0		850/1300			

Other cable constructions and fiber performance grades available on request.

