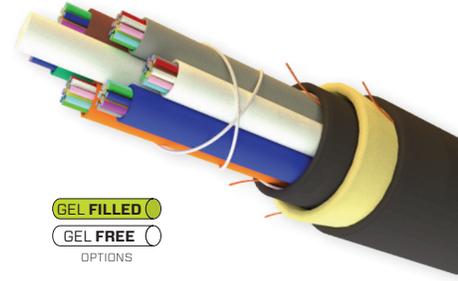


# All-Dielectric Self-Supporting (AFL-ADSS®) Fiber Optic Cable

AFL-ADSS® (All-Dielectric Self-Supporting) fiber optic cable is designed for outside plant aerial transmission and distribution environments. As its name indicates, there are no metallic components and the cable does not require a support or messenger wire. These attributes allow the cable to be installed live-line and in the power space of distribution lines.

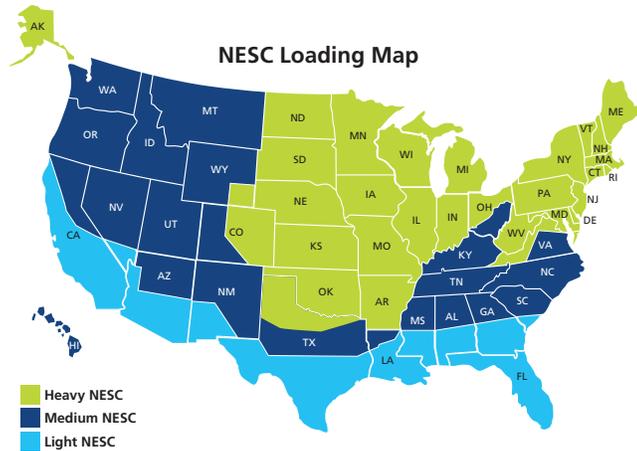


## Features

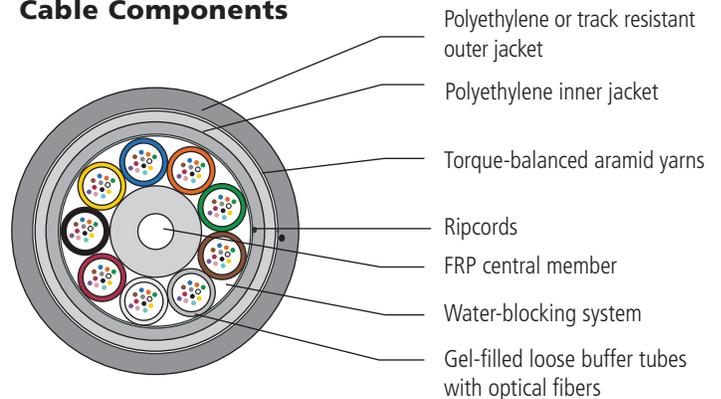
- Up to 432 fibers in cable
  - Gel-Free Buffer Tube options available – up to 216 fibers
- Designs capable of span lengths up to 3500 ft.
- Double jacket designs provide additional protection to the fibers for longer span lengths and higher strength requirements
- Track-resistant outer jacket available for high voltage transmission lines for space potential values up to 25 kV
- Gel-filled tubes are reverse-oscillated (SZ stranded) to allow slack for mid-span access

## Applications

- Electric utility transmission lines
  - Typically framed under conductors
- EHV environments
  - Tracking-resistant options available



## Cable Components



## Quote Request Information

**NOTE:** AFL-ADSS is a custom designed product. Depending on the application, use the key below to your project application or specification.

<b>A</b>	<b>XXX</b>	<b>XXX</b>	<b>XXXX</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
	<b>Fiber Count</b> <sup>1</sup>	<b>Buffer Tubes</b>	<b>Span Length</b> <sup>3</sup>	<b>Unit of Measure</b>	<b>NESC Loading Condition</b> <sup>4</sup>		<b>Line Voltage</b>
	012 to 432	Gel-Filled Gel-Free <sup>2</sup>	0100 to 2500	F = Feet M = Meters	L = Light M = Medium H = Heavy		A = Less than 69 kV B = ≥ 69 kV

**NOTES:**

1. Fiber counts available for 12-432 fibers.
2. Gel-Free Buffer tubes available with up to 216 fibers.
3. Span lengths available from 100-2500 feet (or meters). Please contact AFL for span lengths outside this range.
4. Refer to U.S. map above to ensure the correct NESL loading condition for your location.

**Fiber Code**

- 9 = Single-mode
- 6 = 62.5/125 GIGA-Link™ 300
- 8 = 62.5/125 GIGA-Link™ 1000
- 5 = 50/125 GIGA-Link™ 600
- L = 50 Laser-Link™ 300
- Q = Non-zero Dispersion-shifted Single-mode
- BK = BABA-Compliant 250 μm Single-mode
- BL = BABA-Compliant Corning 250 μm Single-mode



continued →

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

## Optical Information

Fiber Type	"X"	Standard	Mode Field Diameter	Attenuation		
				850 nm	1300 nm	1550 nm
250 µm Single-mode	9	ITU-T G.652D/657.A1	9.2 µm nominal	N/A	0.35	0.25
Corning 250 µm Single-mode	AZ	ITU-T G.652D/657.A1	9.2 µm nominal	N/A	0.35	0.25
BABA-Compliant 250 µm Single-mode	BK	ITU-T G.652D/657.A1	9.2 µm nominal	N/A	0.35	0.25
BABA-Compliant Corning 250 µm Single-mode	BL	ITU-T G.652D/657.A1	9.2 µm nominal	N/A	0.35	0.25
62.5/125 GIGA-Link 300	6	OM1	62.5 µm nominal	3.5	1.2	N/A
50/125 GIGA-Link 600	5	ITU G651.1/OM2	50 µm nominal	2.9	0.9	N/A
50/125 Laser-Link 300	L	ITU G651.1/OM3	50 µm nominal	2.9	0.9	N/A

## 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.

## Recommended Products for ADSS Fiber Optic Cable

Description	AFL No.
<b>Fiber Optic Cable Accessories</b>	
ADSS Wedge Dead End	Refer to the <a href="#">ADSS Wedge Dead End spec sheet</a> for specific AFL No.
ADSS Suspension Unit	Refer to the <a href="#">ADSS Suspension Unit spec sheet</a> for specific AFL No.
ADSS Trunnion Assemblies	Refer to the <a href="#">ADSS Trunnion Assemblies spec sheet</a> for specific AFL No.
ADSS Temporary Grip	Refer to the <a href="#">ADSS Temporary Grip spec sheet</a> for specific AFL No.
AGC Downlead Clamp for ADSS	Refer to the <a href="#">AGC Downlead Clamp for ADSS spec sheet</a> for specific AFL No.
AVD Series Spiral Vibration Dampers	Refer to the <a href="#">AVD Series Spiral Vibration Dampers spec sheet</a> for specific AFL No.
Coil Brackets	Refer to the <a href="#">Coil Brackets spec sheet</a> for specific AFL No.
Standoff Bracket for ADSS Hardware Clamps	Refer to the <a href="#">Standoff Bracket for ADSS Hardware Clamps spec sheet</a> for specific AFL No.
For more ADSS Cable Accessories, go to the <a href="#">ADSS Fiber Optic Cable Hardware web page</a>	
<b>Fiber Optic Splice Closures</b>	
Apex® X-2 Sealed Splice Closure	Refer to the <a href="#">Apex X-2 spec sheet</a> for specific AFL No.
Apex® X-2S Sealed Splice Closure	Refer to the <a href="#">Apex X-2S spec sheet</a> for specific AFL No.

## Temperature Specifications

Temperature Range	
Operation	-40°C to +70°C
Storage	-50°C to +70°C
Installation	-30°C to +70°C

## Qualifications

Governing Body	Standard Code	Component
IEEE	1222	Cable
TIA	598-D	Fiber

Contact AFL for your customized ADSS solution.

