



Applications

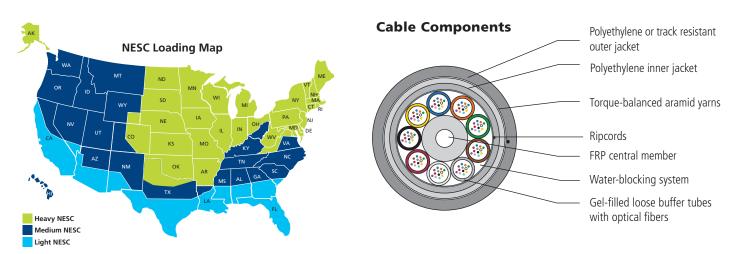
- Electric utility transmission lines
 - Typically framed under conductors
- EHV environments
 - Tracking-resistant options available

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



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.



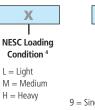


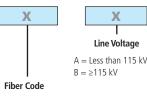












9 = Single-mode

 $6 = 62.5/125 \text{ GIGA-Link}^{\text{\tiny TM}} 300$

8 = 62.5/125 GIGA-Link[™] 1000

 $5 = 50/125 \text{ GIGA-Link}^{\text{\tiny TM}} 600$ $L = 50 \text{ Laser-Link}^{\text{\tiny TM}} 300$

Q = Non-zero Dispersion-shifted Single-mode

continued

- 1. Fiber counts available for 12-432 fibers.
- 2. Gel-Free Buffer tubes available with up to 216 fibers.
- 3. Span lengths availble 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 NESC loading condition for your location.



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

Optical Information

	MAXIMUM ATTENUATION (dB/km)				AUNCH MIN. H (MHz•km)	GIGABIT ETHERNET MINIMUM LINK DISTANCE (meters)		
FIBER TYPE	850 nm	1300 nm	1310 nm	1550 nm	850 nm	1300 nm	850 nm	1300 nm
(9) Single-mode	N/A	N/A	0.35	0.25	N/A	N/A	N/A	5000
(6) 62.5/125 GIGA-Link™ 300	3.5	1.2	N/A	N/A	200	600	300	550
(8) 62.5/125 GIGA-Link™ 1000	3.5	1.2	N/A	N/A	350	600	500	1000
(5) 50/125 GIGA-Link [™] 600	2.9	0.9	N/A	N/A	500	500	600	600
(L) 50 Laser-Link™ 300	3.5	1.2	N/A	N/A	1500	500	900	550
(Q) Non-zero Dispersion-shifted Single-mode	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A

Gigabit Ethernet Minimum Link Distances are based on "bandwidth"/modal dispersion constraints. Actual link distances may be constrained by attenuation, depending on specific loss budget.

Reel Information

	REE	LA	REEL B		REEL C		REEL D		REEL E	
ITEM	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.			
Fiber Optic Cable Accessories				
ADSS Wedge Dead End	Refer to the ADSS Wedge Dead End spec sheet for specific AFL No.			
ADSS Suspension Unit	Refer to the ADSS Suspension Unit spec sheet for specific AFL No.			
ADSS Trunnion Assemblies	Refer to the ADSS Trunnion Assemblies spec sheet for specific AFL No.			
ADSS Temporary Grip	Refer to the ADSS Temporary Grip spec sheet for specific AFL No.			
AGC Downlead Clamp for ADSS	Refer to the AGC Downlead Clamp for ADSS spec sheet for specific AFL No.			
AVD Series Spiral Vibration Dampers	Refer to the <u>AVD Series Spiral Vibration Dampers spec sheet</u> for specific AFL No.			
Coil Brackets	Refer to the Coil Brackets spec sheet for specific AFL No.			
Standoff Bracket for ADSS Hardware Clamps	Refer to the <u>Standoff Bracket for ADSS Hardware Clamps spec sheet</u> for specific AFL No.			
For more ADSS Cable Accessories, go to the ADSS Fiber Optic Cable Hardware web page				
Fiber Optic Splice Closures				
Apex® X-2 Sealed Splice Closure	Refer to the Apex X-2 spec sheet for specific AFL No.			
Apex® X-2S Sealed Splice Closure	Refer to the Apex X-2S spec sheet for specific AFL No.			

Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
IEEE	1222	Cable
TIA	598-D	Fiber

Contact AFL for your customized ADSS solution.

Temperature Specifications

TEMPERATURE RANGE				
Operation	-40°C to +70°C			
Storage	-50°C to +70°C			
Installation	-30°C to +70°C			