

All Dielectric Self-Supporting Aerial Cable



Temperature Range  
 Operating : -40°C to +70°C  
 Storage : -50°C to +70°C  
 Installation : -30°C to +70°C  
 Bending Radius:  
 Static 10D  
 Dynamic 20D

Description

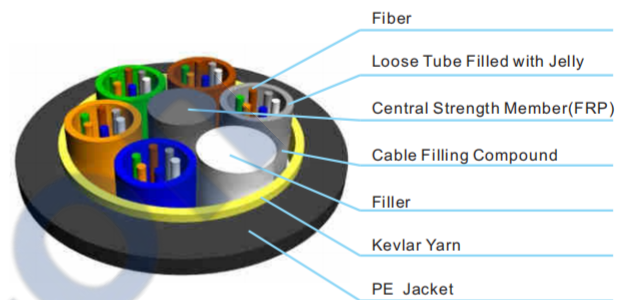
Mini-Span All-Dielectric Self-Supporting (ADSS) cable's designed for outside plant aerial and duct applications in local and campus network loop architectures. From pole-to-build to town-town installations, the Mini-Span cabling system, which includes cables, suspension, dead end and termination enclosures, offers a comprehensive transmission circuit infrastructure with proven, high-reliability performance. See EFON's Fiber Optic Cable Hardware catalog for more information. Mini-Span includes fiber counts up to 144 optical fibers and any type or combination of single-mode and multi-mode fibers with the cable. Pole-to-Pole span lengths range from 50 feet to over 650 feet(30-200meters).

Features

- Can be installed without shutting off the power.
- Excellent AT performance. The maximum inductive at the operating point of AT jacket can reach 25kV.
- Light weight and small diameter reducing the load caused by ice and wind and the load on towers and backprops.
- Large span lengths and the largest span is over 200m.
- Good performance of tensile strength and temperature.
- The design life span is over 30 years.

Applications

- The actual status of overhead power lines is taken into full consideration when ADSS cable is being designed.
- For overhead power lines under 110kV, PE outer sheath is applied.
- For power lines equal to or over 110kV,AT outer sheath is applied.
- The dedicate design of aramid quantity and stranding process can satisfy the demand on various spans.



Cable Structure

Optical Characteristics

Fiber Type		G.652	G.655	50/125µm	62.5/125µm
Attenuation (+20°C)	850 nm			≤3.0 dB/km	≤3.3 dB/km
	1300 nm			≤1.0 dB/km	≤1.0 dB/km
	1310 nm	≤0.36 dB/km	≤0.40 dB/km		
	1550 nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth	850 nm			≥500 MHz-km	≥200 Mhz-km
	1300 nm			≥500 MHz-km	≥500 Mhz-km
Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
Cable Cut-off Wavelength λ <sub>cc</sub>		≤1260 nm	≤1450 nm		

Structure and Technical Specifications

Ref. Outer Diameter (mm)	Ref. Weight (kg/km)		Rec. Daily Max. Working Tension (kN)	Max Allowable Working Tension (kN)	Break Strength (kN)	Strength Member CSA (mm²)	Modulus of Elasticity CSA (kN/mm²)	Heat Expansion Coefficient (×10 <sup>-6</sup> /K)	Suitable Span (NESC Standard,m)			
	PE Jacket	AT Jacket							A	B	C	D
11	110	120	1.5	4	10	4.6	7.6	1.8	160	100	140	100
11.5	115	125	22.5	6	15	7.6	8.3	1.5	230	150	200	150
12	120	130	3.0	8	20	10.35	9.45	1.3	300	200	290	200

**Note:** Only a part of ADSS cables are listed in the table. ADSS cables with other spans can be inquired from EFON directly. Specifications in the table are got on condition that there is no height difference and the installation sag is 1%. Fiber count is 2 to 72. The identification of fibers complies with the national standard. This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information.