

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.

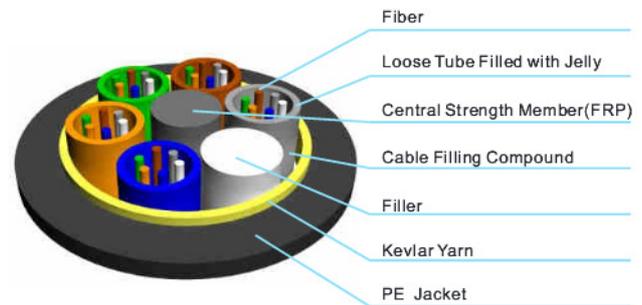
Mini-Span includes fiber counts up to 144 optical fibers and any type or combination of single-mode and multi-mode fibers with the cable. Pole-to-Pole span lengths range from 50 feet to over 650 feet(30-200meters).

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 _{cc}		≤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 (mm ²)	Modulus of Elasticity CSA (kN/mm ²)	Heat Expansion Coefficient (×10 ⁻⁶ /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. 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.