

Self-support Optical Cable(ADSS)

Product Description

The ADSS optical cable adopts a loose tube layer-stranding design, where 250μm optical fibers are encapsulated into loose tubes made of high-modulus material, with the tubes filled with waterproof compound. The loose tubes (and filler rods) are stranded around a non-metallic central strength member (fiber-reinforced plastic, FRP) to form a compact cable core. Gaps within the core are filled with water-blocking gel to ensure longitudinal water resistance. The core is then extruded with a polyethylene (PE) inner sheath, followed by the application of aramid yarn reinforcement for tensile strength. Finally, the cable is completed by extruding either a polyethylene (PE) outer sheath or an anti-tracking (AT) outer sheath to resist electrical corrosion in high-voltage environments.

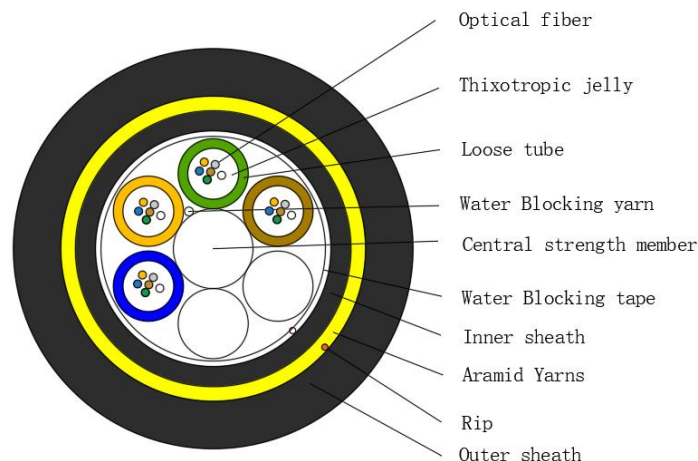
Product standard

According to IEC-60794-4-20-2012

Applications: All dielectric self-supporting aerial, Electrical system or frequently lightning areas

Product features

- Choose high-quality optical fiber to ensure excellent transmission performance of optical cable
- Accurate control of fiber surplus length to ensure that the fiber has good tensile properties and temperature characteristics
- The water resistance structure of the whole section ensures good water resistance and moisture resistance performance
- The center strength member adopt glass fiber reinforced plastic rod (FRP) with high Young modulus
- Full medium self support, high tensile strength aramid yarn or glass yarn reinforcement ensure that the fiber cable is self supported and under harsh environment, without strain and is not affected by lightning induction
- Excellent performance polyethylene / electric mark resistant outer sheath to ensure the safety of optical cable under high induction potential environment



Technical parameter

Fiber count	Element number	Max.cores in tube	Tensile of the cable
2~24	6	4	Design structure according to weather,span and ect.
28~36	6	6	
38~48	6	8	
50~72	6	12	
74~84	7	12	
86~96	8	12	
98~108	9	12	
110~120	10	12	
122~132	11	12	
134~144	12	12	
Crush Resistance(N/100mm)	1000/2200		
Bending Radius	Static		Dynamic
	≥12.5D(D is the outer diameter of optical cable)		≥25D(D is the outer diameter of optical cable)
Operating Temperature	-40℃~+70℃		
Application	Self-Support Aerial		