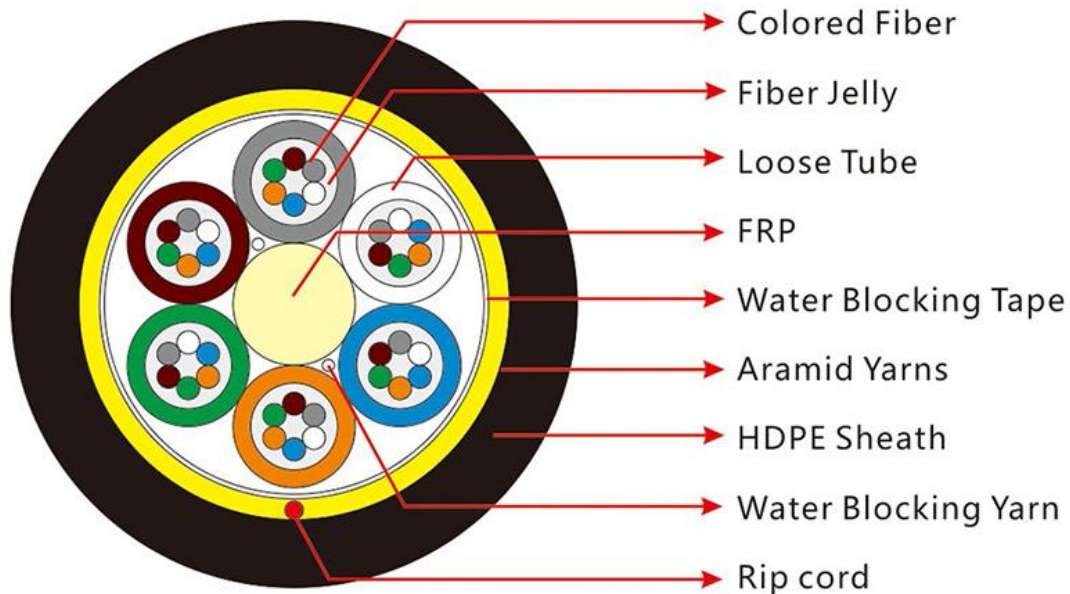




Description

ADSS cable adopts the twisted structure of loose sleeve layer, 250 μm optical fiber is inserted into the loose tube made of high modulus materials, and the loose tube is filled with waterproof compounds. The loose tube (and filling rope) is twisted around the non-metallic center reinforcing core (FRP) to synthesize a compact cable core. The gap of the cable core is filled with a water-blocking yarn and a water-blocking belt longitudinally wrapped by the cable core, and then the aramid fiber that plays a reinforcing role is twisted. Finally, the polyethylene (PE) outer sheath or the electric mark (AT) outer sheath is extruded.

Characteristics

- Continuous electrical erection
- Superior resistance to electric marks with AT sheath
- Light weight, small cable diameter, reduced ice, wind impact and load on tower, support
- Excellent tensile and temperature properties
- Life expectancy up to 30 years

Standards

The ADSS cable follows the IEEE P 1222 technical standard, and meets the IEC 60794-1 standard and DLT 788-2016 standard.

Optical Characteristics

		G.652	G.655	50/125μm	62.5/125μm
Attenuation (+20℃)	@850nm			≤3.0 dB/km	≤3.0 dB/km
	@1300nm			≤1.0 dB/km	≤1.0 dB/km
	@1310nm	≤0.36 dB/km	≤0.40 dB/km		
	@1550nm	≤0.22 dB/km	≤0.23 dB/km		
Bandwidth (Class A)	@850nm			≥500 MHz·km	≥200 MHz·km
	@1300nm			≥500 MHz·km	≥500 MHz·km
Numerical aperture				0.200±0.015NA	0.275±0.015NA
Cable Cutoff Wavelength		≤1260nm	≤1480nm		

Technical Parameters

Cable Diameter mm	Cable Weight kg/km		Recommend maximum working tension kN	Maximum allowable working tension kN	breaking tenacity kN	Section area of tensile components mm ²	modulus of elasticity kN/ mm ²	thermal expansion coefficient ×10-6 /k
	PE sheath	AT sheath						
9.8	121	130	1.5	4	10	4.6	7.6	1.8
10.2	129	138	2.1	5	14	6.9	8.1	1.4
13.1	132	143	2.8	7	19	9.97	9.13	1.2
15.6	189	207	3.8	9	26	14.2	11.2	1.0