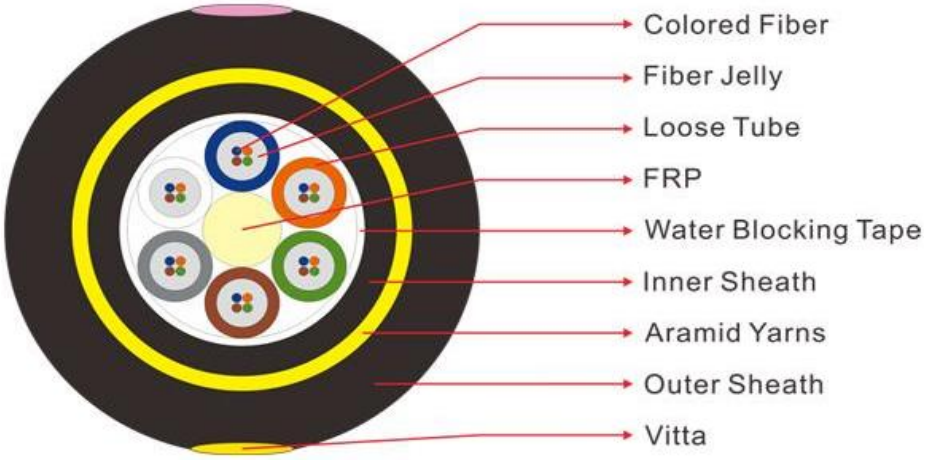
Outdoor Self-supporting Fiber Optic Cable ADSS



Product Code	Description			
3536-00006	Outdoor self-supporting fiber optic cable ADSS	9/125;50/125; 62.5/125	OM3;OM4	2- 144 core

·Description

ADSS cable is loose tube stranded. Fibers, 250μm , are positioned into a loose tube made of high modulus plastics. The tubes are filled with a water-resistant filling compound. The tubes (and fillers) are stranded around a FRP (Fiber Reinforced Plastic) as a non-metallic central strength member into a compact and circular cable core. After the cable core is filled with filling compound. it is covered with thin PE (polyethylene) inner sheath. After stranded layer of aramid yarns are applied over the inner sheath as strength member, the cable is completed with PE or AT (anti-tracking) outer sheath.

·Characteristics

· Can be installed without shutting off the power
· Excellent AT performance, The maximum inductive at the operating point of AT sheath 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 1000m
· Good performance of tensile strength and temperature
· The design life span is 30 years

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.

·Standards

ADSS cable complies with Standard IEEE P 1222 as well as IEC 60794-1.

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·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	≤0.23dB/km		
Bandwidth (Class A)	@850nm			≥500 MHz • km	≥200 MHz • km
	@1300nm			≥1000 MHz • km	≥600 MHz • km
Numerical Aperture				0.200±0.015NA	0.275±0.015NA
Cable Cut-off Wavelength λcc		≤1260nm	≤1480nm		

·Technical Parameters

Ref.outer diameter mm	Ref.weight kg/km PE sheath	Ref.weight kg/km AT sheath	Ref.daily max.working tension kN	Cable Diameter mm	Max allowable working tension kN	Break strength kN	Strength member CSA mm2	Crush Resistance Long/Short Term N/100mm
12.5	125	136	1.5	4	10	4.6	7.6	1.8
13	132	142	2.25	6	15	7.6	8.3	1.5
13.3	137	148	3	8	20	10.35	9.45	1.3
13.6	145	156	3.6	10	24	13.8	10.8	1.2
13.8	147	159	4.5	12	30	14.3	11.8	1
14.5	164	177	5.4	15	36	18.4	13.6	0.9
14.9	171	185	6.75	18	45	22	16.4	0.6
15.1	179	193	7.95	22	53	26.4	18	0.3
15.5	190	204	9	26	60	32.2	19.1	0.1
15.6	194	208	10.5	28	70	33	19.6	0.1
16.3	211	226	12.75	34	85	40	20.1	0.1
16.8	226	242	15.45	41	103	48	24	-0.4
17.2	236	253	16.2	45	108	51	25.1	-0.5
17.9	249	266	18	50	120	58.8	26.1	-0.8

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Ref.outer diameter mm	Suitable span (m) (NESC Standard,m)				
	A	B	C	D	
12.5	160	100	140	100	
13	230	150	200	150	
13.3	300	200	290	200	
13.6	370	250	350	250	
13.8	420	280	400	280	
14.5	480	320	460	320	
14.9	570	380	550	380	
15.1	670	460	650	460	
15.5	750	530	750	510	
15.6	800	560	800	560	
16.3	880	650	880	650	
16.8	1000	750	1000	760	
17.2	1100	800	1100	830	
17.9	1180	880	1180	900	