

All-dielectric self-supporting aerial cable

All-dielectric self-supporting aerial cable 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.

Application:Aerial

All-dielectric self-supporting aerial cable Characteristics

- 1.This cable can be installed without shutting off the power
- 2.Excellent AT performance the maximum inductive at the operating point of AT sheath can reach 25KV
- 3.Light weight and small diameter reducing the load caused by ice and wind the load on towers and backprops
- 4.Large span lengths and the largest span is over 1000meters
- 5.Good performance of tensile strength and temperature
- 6.The design life span is over 30 years
- 7.Product standards:Comply with IEEE 1222-2004 as well as IEC 60794-1

All-dielectric self-supporting aerial cable Technical parameters

Reference Outer Diameter(mm)	Reference Weight(Kg/Km)		Recommen ded Daily max.Work ing tension(K N)	Allowabl e Max.wor king tension(KN)	Breaking strength(KN)	Strength Member C.S.A(mm 2)	Modulus of Elasticity(K N/mm2)	Heat Expansion Coefficient (10-6/K)	Suitable span(NESC Standards,Meters)			
	PE Outer sheath	AT Outer sheath							A	B	C	D
12.5	125	136	1.5	4	10	4.6	7.6	1.8	160	100	140	100
13.0	132	142	2.25	6	15	7.6	8.3	1.5	230	150	200	150
13.3	137	148	3.0	8	20	10.35	9.45	1.3	300	200	290	200
13.6	145	156	3.6	10	24	13.8	10.8	1.2	370	250	350	250
13.8	147	159	4.5	12	30	14.3	11.8	1.0	420	280	400	280
14.5	164	177	5.4	15	36	18.4	13.6	0.9	480	320	460	320

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14.9	171	185	6.75	18	45	22.0	16.4	0.6	570	380	550	380
15.1	179	193	7.95	22	53	26.4	18.0	0.3	670	460	650	460
15.5	190	204	9.0	26	60	32.2	19.1	0.1	750	530	750	510
15.6	194	208	10.5	28	70	33.0	19.6	0.1	800	560	800	560
16.3	211	226	12.75	34	85	40.0	20.1	0.1	880	650	880	650
16.8	226	242	15.45	41	103	48.0	24.0	-0.4	1000	750	1000	760
17.2	236	253	16.2	45	108	51.0	25.1	-0.5	1100	800	1100	830
17.9	249	266	18.0	50	120	58.8	26.1	-0.8	1180	880	1180	900

All-dielectric self-supporting aerial cable construction

