

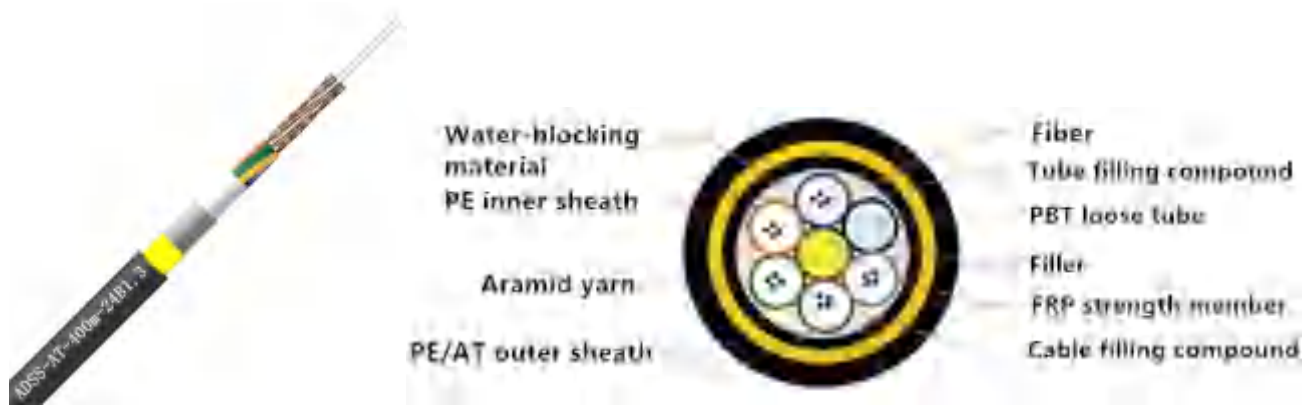
### Application

ADSS (All Dielectric Self-Supporting Optical Fiber Cable) is a non-metal optical cable composed of dielectric material, self-supporting and hang on the transmission tower. It is main used in Overhead high voltage transmission system and telecommunication line.

### Standard

IEEE 1222, IEC 60794-4-20, ANSI/ICEA S-87-640, TELCORDIA GR-20, IEC 60793-1-22, IEC 60794-1-2, IEC 60794 standards.

### Construction



Conductor: In standard structure design, the water-blocking grease and inner optical fibers are added to the loose fiber tube, and different loose tubes are coiled around the central reinforcement (usually FRP). The rest of the fiber optic wire is essentially the same as the central tube structure.

Fiber Type: G652D; G655C; 657A1; 50/125; 62.5/125; OM3; OM4.

### Construction Parameters

Model	ADSS									
Fiber Num(core)	12、24									
Span (m)	100	200	300	400	500	600	700	800	900	1000
Area(mm <sup>2</sup> )	124.69	126.68	109.36	111.22	116.90	122.72	126.68	132.73	149.57	156.15
Fiber Num/Tube	6	6	4	4	4	4	4	4	6	6
Outer diameter (mm)	12.6	12.7	11.8	11.9	12.2	12.5	12.7	13.0	13.8	14.1
RTS(KN)	9.00	13.00	18.00	22.00	27.55	34.20	38.95	44.65	51.30	57.60
MAT(KN)	3.60	5.20	7.20	8.80	11.02	13.68	15.58	17.86	20.52	23.04
EDS(KN)	2.25	3.25	4.50	5.50	6.89	8.55	9.74	11.16	12.83	14.40

Module (KN/mm <sup>2</sup> )	7.80	9.63	12.92	14.85	17.97	20.81	22.69	24.79	26.43	28.41
Thermal Expansion Coefficient (1/C×10 <sup>-6</sup> )	10.41	7.85	4.71	3.71	2.55	1.80	1.41	1.04	0.79	0.53
Unit Weight (kg/km)	≤138.5	≤142.0	≤120.6	≤124.4	≤130.4	≤136.6	≤140.9	≤146.1	≤165.2	≤171.1
Mini Static Bending Radius (mm)	Running Status: 15D; Laying Status: 25D (D: Outer diameter)									
Fitting Temperature Range (C)	-40~+70									
Maximum Length of Drum (m)	6000									