

## ADSS Aerial Fiber Optical Cable

ADSS optical cable (All Dielectric Self-Supporting Optical Fiber Cable, also known as all-dielectric self-supporting type optical cable) is a kind of all-dielectric self-supporting optical fiber cable, which is composed of dielectric materials, contains the necessary support system, and can be directly hung on the electric tower. The non-metallic optical cable is mainly used for the communication line of the overhead high-voltage power transmission system, and can also be used for the communication line in the overhead laying environment such as lightning-prone areas and large spans.



Place of Origin: Shenzhen, China

Brand Name: OPTICO

Model Number: ADSS-48-300m

Number of Conductors:  $\geq 10$

Cable Structure: ADSS optical fiber cable

Application: Aerial

Fiber options: ITU G652D , G657A, OM1, OM2, OM3, OM4

Fiber count: 2-288 Cores

Installation tensile: 15KN



Bend radius (Under installation): 20 x External Diameter of cable

Strength member: Kevlar Yarn

Material of jacket: Black Polyethylene (PE)

Certification: ISO9001/CE/RoHS

Warranty (Year): 2

Supply Ability: 1000 Kilometer/Kilometers per Month

Packaging Details: wooden reel ,iron-wooden reel

Port: Shenzhen

### Features

Can be installed without shutting off the power.

Excellent performance. The maximum inductive at the operating point of jacket can reach 25kV.

Light weight and small diameter reducing the load caused by ice and wind and the load on towers and back props.

Large span lengths and the largest span is over 200m.

Good performance of tensile strength and temperature.

The design life span is over 30 years.

### Features of ADSS optical cable:

Small cable diameter, light weight, span can be 1500M, and the additional load on the tower is low;

High tensile strength, which can exceed 90KN;

Non-metallic structure, good insulation performance, lightning protection;

Sophisticated production process, aramid yarn is evenly stressed, with excellent stress and strain properties;

Excellent anti-shooting performance;

The best anti-corrosion performance;

It can be constructed without power failure, and the failure of power lines will not affect the normal transmission of optical cables;

Single-mode, multimode optical fiber and integrated optical cable design;

Smooth shape makes the optical cable have superior aerodynamic performance;

All-dielectric optical cable structure is conducive to installation and maintenance;

Wide range of temperature adaptation, small linear expansion coefficient, meet the requirements of harsh environments.

### Applications

The ADSS structure does not contain any metal substances, and is suitable for lightning areas and high-voltage areas. The installation is simple, and the cost is higher than other ordinary optical cables. Generally used in areas where it is difficult to lay, cross-lake, cross-river installation, etc.

### Structure and Technical Specifications

### ADSS-SJ(50-150M)

Ref. Outer	Ref. Weight	Rec. Daily Max.	Max Break	Strength	Modulus of	Heat	Suitable Span				
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Allowable													
Diameter	(kg/km)	Working Tension	Working Tension	Strength	Member	Elasticity	Expansion	(NESC Standard, m)					
(mm)		(kN)	(kN)	(kN)	CSA	CSA	Coefficient						
	PE Jacket	AT Jacket				(mm <sup>2</sup> )	(kN/mm <sup>2</sup> )	(x10 <sup>-6</sup> /K)	A	B	C	D	
11	110	120	1	2.5	8	3	6.6	2.1	120	80	100	80	
11.5	115	125	1.5	4	10	4.5	7.3	1.8	180	120	150	120	
12	120	130	2.5	6	15	7.5	8.3	1.5	250	150	290	150	

### Structure and Technical Specifications

### ADSS-DJ(50-750M)

Ref. Outer	Ref. Weight	Rec. Daily Max.	Max Allowable	Break	Strength	Modulus of	Heat	Suitable Span					
Diameter	(kg/km)	Working Tension	Working Tension	Strength	Member	Elasticity	Expansion	(NESC Standard, m)					
(mm)		(kN)	(kN)	(kN)	CSA	CSA	Coefficient						
	PE Jacket	AT Jacket				(mm <sup>2</sup> )	(kN/mm <sup>2</sup> )	(x10 <sup>-6</sup> /K)	A	B	C	D	
12.5	125	136	1.5	4	10	4.6	7.6	1.8	160	100	140	100	
13	132	142	2.25	6	15	7.6	8.3	1.5	230	150	200	150	
13.3	137	148	3	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	420	280	400	280
14.5	164	177	5.4	15	36	18.4	13.6	0.9	480	320	460	320
14.9	171	185	6.75	18	45	22	16.4	0.6	570	380	550	380
15.1	179	193	7.95	22	53	26.4	18	0.3	670	460	650	460
15.5	190	204	9	26	60	32.2	19.1	0.1	750	530	750	510

Note: Only a part of ADSS cables are listed in the table. ADSS cables with other spans can be inquired from OPTIC O directly.

Specifications in the table are got on condition that there is no height difference and the installation sag is 1 %.

Fiber count is 2 to 72. The identification of fibers complies with the national standard.

This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information.

**Certificates:**



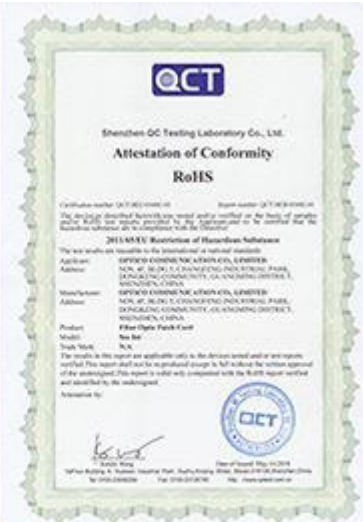
**CE**



**CPR**



**ISO**



**RoHS**

**Factory Workshop:**

# Shenzhen Optico Communication Co.,Ltd





Keywords: ADSS cable, aerial fiber cable, self-support;