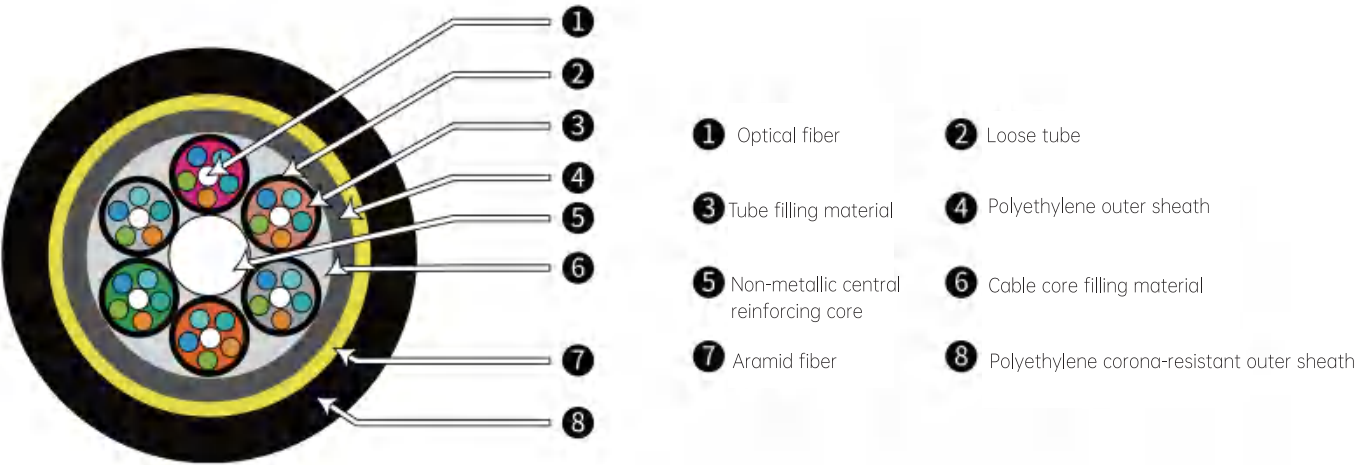


ADSS

Full Dielectric Self-Supporting Fiber Optic Cable



Product Description

Colored optical fibers are placed into a loose tube made of high-modulus material, which is filled with thixotropic water-blocking gel. The core of the cable consists of a metal strength member. The loose tube(and filling rope)is twisted around the central strength member to form a circular cable core. Gaps within the cable core and between the cable core and the steel tape are filled with water-blocking gel. After longitudinal wrapping with coated aluminum tape and extrusion of a polyethylene inner sheath, the cable is wrapped with coated steel tape and extruded with a flame-retardant outer sheath.

Product Features

- ◆Utilizes AT sheath, providing strong resistance to electric corrosion.
- ◆Lightweight with high tensile strength, enabling long span installations.
- ◆Exhibits excellent resistance to tension and temperature variations.



Optical Characteristics

Fiber Type	Attenuation (+20℃)				Bandwidth		Numerical Aperture	Cable Cut-off Wavelength
	@850mm	@1300mm	@1310mm	@1550mm	@850mm	@1300mm		
G.652	-	-	≤0.36db/km	≤0.22db/km	-	-	-	≤1260nm
G.655	-	-	≤0.40db/km	≤0.23db/km	-	-	-	≤1450nm
50/125μm	≤3.3db/km	≤1.2db/km	-	-	≥500MHz·km	≥500MHz·km	0.200±0.015NA	-
62.5/125μm	≤3.5db/km	≤1.2db/km	-	-	≥200MHz·km	≥500MHz·km	0.275±0.015NS	-

Structural Parameters

Reference outer diameter (mm)	Reference weight (kg/km)		Recommended maximum daily working tension (KN)	Maximum allowable working tension (KN)	Breaking strength (KN)	Cross-sectional area of tensile member (mm²)	Elastic modulus (kN/mm²)	Coefficient of thermal expansion X10-6/K	Suitable span (m) Corresponding weather conditions (m)			
	PE outersheath	AT outersheath							A	B	C	D
11.8	117	124	1.5	4	10	4.6	7.6	1.8	160	100	140	100
12.0	121	129	2.25	6	15	7.6	8.3	1.5	230	150	200	150
12.3	126	134	3.0	8	20	10.35	9.45	1.3	300	200	290	200
12.6	133	141	3.6	10	24	13.8	10.8	1.2	370	250	350	250
12.8	138	145	4.5	12	30	14.3	11.8	1.0	420	280	400	280
13.1	145	153	5.4	15	36	18.4	13.6	0.9	480	320	460	320
13.5	155	163	6.75	18	45	22.0	16.4	0.6	570	380	550	380
13.8	163	171	7.95	22	53	26.4	18.0	0.3	670	460	650	460
14.4	177	186	9.0	26	60	32.2	19.1	0.1	750	530	750	510
14.6	182	191	10.5	28	70	33.0	19.6	0.1	800	560	800	560
14.8	195	204	12.75	34	85	40.0	20.1	0.1	880	650	880	650

Storage and Operating Temperature: -40℃ to +70℃.

Application: Ducts, Aerial

Note:

- a.The suffix Xn in the model indicates the selected fiber type, see Yangtze Fiber Model Explanation for details.

b.The color arrangement of the loose tube and fibers can be found in the chromatogram.

c.The minimum thickness of the polyethylene sheath is 1.5mm.

d.The cable should not be stored in open-air environments for more than 6 months, otherwise the spool may be damaged.

e.This document is for reference only and cannot be used as an attachment to the contract. For detailed product information, please contact our sales staff.