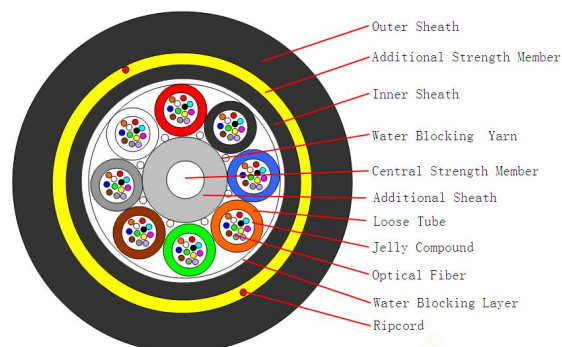
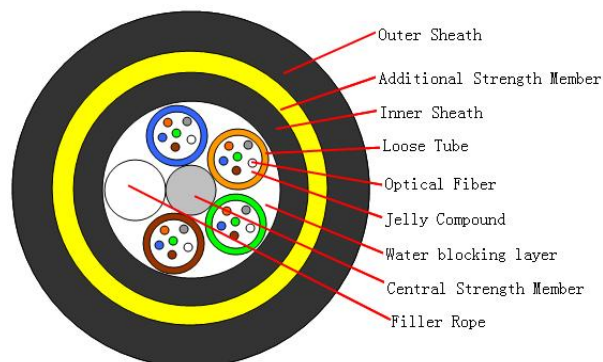




Supply All-dielectric Aerial ADSS Fiber Optic Cable 144 Cores Single Mode

G652D Double Jacket PE Long Span

Cable Design



Technical data

No. of cable		/	6~30	32~60	62~72	96	144
Design (StrengthMember+Tube&Filler)		/	1+5	1+5	1+6	1+8	1+12
Fiber type		/	G.652D				
Central Strength Member	Material	mm	FRP				
	Diameter ($\pm 0.05\text{mm}$)		1.5	1.5	2.1	2.1	2.1
Loose Tube	Material	mm	PBT				
	Diameter ($\pm 0.05\text{mm}$)		1.8	2.1	2.1	2.1	2.1
	Thickness ($\pm 0.03\text{mm}$)		0.32	0.35	0.35	0.35	0.35
	MAX.NO./per		6	12	12	12	12
Water Blocking Layer	Material	/	Flooding Compound				
Inner Sheath	Material	mm	MDPE				
	Thickness		0.9 (nominal)				
	colour		black.				
Additional Strength Member	Material	/	Aramid Yarn				
Outer Sheath	Material	mm	MDPE				
	Thickness		1.8 (nominal)				
	colour		black.				
Cable Diameter($\pm 0.2\text{mm}$)		mm	11.1	11.7	12.3	14.1	16.4
Cable Wetght($\pm 10.0\text{kg/km}$)		kg/km	100	111	122	135	165
Attenuation coefficient	1310nm	dB/km	≤ 0.35				
	1550nm		≤ 0.21				
Cable breaking strength(RTS)		kn	≥ 12.0				
Working Tension (MAT)		Kn	≥ 5.0				



Wind velocity		m/s	30
Icing		mm	5
Span		M	200
Crush Resistance	Short Term	N/100m	≥ 2200
	Long Term	m	≥ 1100
Min. bending radius	Without Tension	mm	$10.0 \times \text{Cable-} \phi$
	Under Maximum Tension		$20.0 \times \text{Cable-} \phi$
Temperature range ($^{\circ}\text{C}$)	Installation	$^{\circ}\text{C}$	-20~+60
	Transport&Storage		-40~+70
	Operation		-40~+70

Fibre Colours

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

Loose Tube Colours

No.	1	2	3	4	5	6	7	8
Color	Blue	Orange	Green	Brown	Gray	White	Red	Black

The properties of single mode optical fiber (ITU-T Rec. G.652.D)

Item	Specification
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	≤ 0.36 dB/km ≤ 0.32 dB/km ≤ 0.22 dB/km ≤ 0.30 dB/km
Point discontinuity	≤ 0.05 dB
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm ² .km)
Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm	≤ 3.5 ps/(nm. km) ≤ 5.3 ps/(nm. km) ≤ 18 ps/(nm. km) ≤ 22 ps/(nm. km)
PMD _Q (Quadrature average*)	≤ 0.2 ps/km ^{1/2}

Mode field diameter @ 1310 nm	9.2±0.4 μm
Core / Clad concentricity error	≤ 0.5 μm
Cladding diameter	125.0 ± 0.7 μm
Cladding non-circularity	≤1.0%
Primary coating diameter	245 ± 10 μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km

Sheath marking

The optical fiber drop cable shall have sequentially numbered length marking at intervals of approximately 1 meter. The starting number of ordering length for any coil shall begin with zero meter. The accuracy of the measurement of length marking shall be held within the limits of ±1%.

- Type of wire
- Year and month of manufacture
- Length marking each meter along the wire