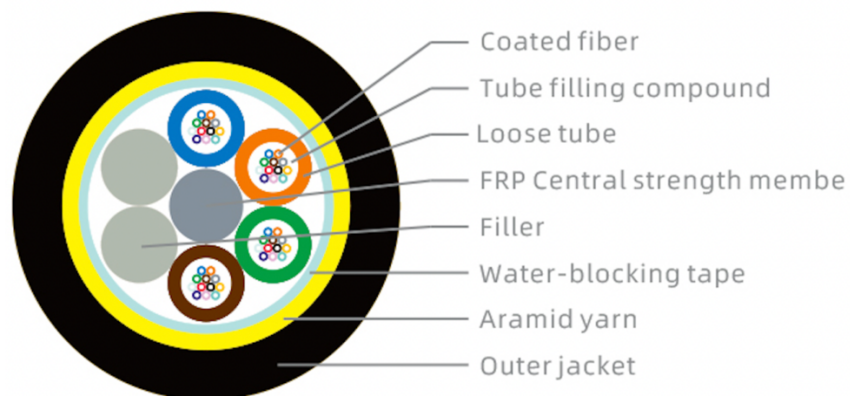


Outdoor Fiber Optical Cable ADSS

P/N: FX-OFC-ADSS



The ADSS all-dielectric self-supported cable is to sheath 250um fiber into PBT loose tubes with water-resistant jelly inside. All the loose tubes (and fillers) are twisted around the FRP central strength member, and wrapped by the water blocking tapes into a compact and round shape. Between the tape and cable sheath, the aramid yarn uniformly spread to increase tensile resistance.

Feature

- Light and small OD, to reduce the impact of ice and wind
- PE and AT sheath available
- Maximum span up to 1000m
- Superior tensile performance and temperature characteristics
- The expected lifespan up to 10 years

Fiber Parameter

Single Mode Fiber				
	Unit	G.652D	G657A1	G657A2

Cladding Diameter		μm	125±1.0	125±0.7	125±0.7
Cladding non-circularity		%	≤ 1.0	≤ 0.7	≤ 0.7
Core-cladding Concentricity Error		μm	≤ 0.6	≤ 0.5	≤ 0.5
Coating Diameter		μm	245±7	245±5	245±5
Coating non-circularity		%	≤ 6.0	≤ 6.0	≤ 6.0
Cladding-coating concentricity error		μm	≤ 12.0	≤ 12.0	≤ 12.0
Cable Cutoff Wavelength (λ _{cc})		nm	≤ 1260	≤ 1260	≤ 1260
Mode Field Diameter	1310nm	μm	≤ 0.4	≤ 0.4	≤ 0.4
	1550nm	μm	≤ 0.3	≤ 0.3	≤ 0.3
Multimode Fiber					
	Unit	62.5/125	50/125	OM3	OM4
Core Diameter	μm	62.5±2.5	50±2.5	50±2.5	50±2.5
Cladding Diameter	μm	125±1.0	125±1.0	125±1.0	125±1.0
Core Non-circularity	%	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0
Cladding Non-circularity	%	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Core-cladding Concentricity Error	μm	≤ 1.5	≤ 1.5	≤ 1.0	≤ 1.0
Coating Diameter	μm	245±7	245±7	245±7	245±7
Coating Non-circularity	%	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0
Cladding-coating Concentricity Error	μm	≤ 12.0	≤ 12.0	≤ 12.0	≤ 12.0
OFL Bandwidth	850nm	MHz·km	≥ 160	≥ 500	≥ 1500
	1300nm	MHz·km	≥ 500	≥ 500	≥ 500

Cable Parameter

Items		Parameter
Fiber Count		4 ~144
Bare Fiber	OD	250±15μm
	Color	Blue, orange, green, brown, grey, white, red, black, yellow, purple, violet, aqua
Loose Tube	OD	2.0mm±0.1mm
	Material	PBT
	Color	Blue, orange, green, brown, grey, white, red, black, yellow, purple, violet, aqua
Filler	OD	2.0mm±0.1mm
	Material	PP
	Color	Grey
Strength Member	Central	Diameter 2.0±0.1mm
		Material FRP
	Aramid Yarn	
Outer Jacket	Thickness	2.0mm
	Material	PE / AT
	Color	Black

Mechanical & Environmental Characteristics

Items		Unit	Parameter
Max. Crush Resistance	Long Term	N/10cm	500
	Short Term	N/10cm	2000
Min. Bend Radius	Dynamic	mm	20D
	Static	mm	10D
Temperature	Operating	℃	-40 ~ +70
	Storage	℃	-40 ~ +70