

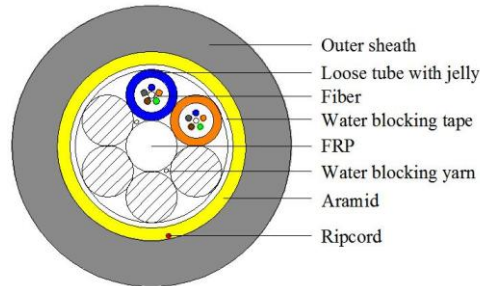


# PRODUCT SPECIFICATION

Optical Cable

HSC-17042801

## ADSS



### CONSTRUCTION

Structure	Unit	Parameter							
Fiber count	fibers	2	4	12	24	36	48	72	144
Fiber type	--	G.652D							
Element		6	6	6	6	6	6	6	12
Cores per tube		2	4	6	6	12	12	12	12
Loose tube Diameter	mm	Φ1.8	Φ1.8	Φ1.8	Φ1.8	Φ2.0	Φ2.0	Φ2.2	Φ2.2
Central strength member	--	FRP							
Strength member	--	Aramid yarn							
Outer sheath thickness	mm	1.5							
Outer sheath material	--	HDPE							
Cable diameter	mm	9.6	9.6	9.6	9.6	10.2	10.2	10.6	14.6
Weight	Kg/km	58	58	59	59	67	68	80	160
Tensile strength (MAT)	N	1800	1800	1800	1800	1800	1800	2000	3900

### CABLE PROPERTIES

Span	m	MAX: 80
The relative dip	%	0.5
Crush Resistance	N/100mm	1000
Bending Radius	Dynamic	≥20×Cable Diameter
	Static	≥10×Cable Diameter
Operating Temperature	°C	-40 ~+70

### STANDARDS

ISO9001	Quality Management Systems
ISO 14001	Environmental Management Systems
IEC60793-1	Optical fiber Part 1: Generic specifications
IEC60793-2	Optical fiber Part 2: Product specifications
IEC60794-1-1	Optical fiber cables Part 1-1: Generic specification – General
IEC60794-1-2	Optical fiber cables Part 1-2: Generic specification – Basic optical cable test procedures

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### FIBER CHARACTERISTICS

Category	Description		Specifications	
			G.652D(After Cabling)	
Optical Specifications	Attenuation	@1310 nm	≤0.36 dB/km	
		@1383 nm	≤0.36 dB/km	
		@1550 nm	≤0.22 dB/km	
		@1625 nm	≤0.25 dB/km	
	Attenuation vs. Wavelength		@1288~1339 nm	≤0.05 dB/km
			@1525~1575 nm	≤0.05 dB/km
	Zero Dispersion Wavelength(nm)		1300~1324	
	Zero Dispersion Slope		≤0.092 ps/nm <sup>2</sup> .km	
	Dispersion	@1310 nm	≤3.5 ps/nm.km	
		@1550 nm	≤18 ps/nm.km	
	Polarization Mode Dispersion(PMD)		≤0.2 ps/km <sup>1/2</sup>	
	PMD Link value		≤0.15 ps/km <sup>1/2</sup>	
	Cable Cutoff Wavelength(λ <sub>cc</sub> )		≤1260 nm	
Macro bending Loss (100turns;Φ37.5 mm) @1550 nm		≤0.05 dB		
(100turns;Φ37.5 mm) @1625 nm		≤0.05 dB		
Mode Field Diameter	@1310 nm	9.2±0.6 μm		
	@1550 nm	10.4±0.8 μm		
Dimensional Specifications	Fiber Curl Radius		≥4.0 m	
	Cladding Diameter		125±0.8 μm	
	Mode field Core/clad concentricity		≤0.5 μm	
	Coating Diameter		245±5 μm	
	Coating/Cladding Concentricity		≤8 μm	
	Cladding Non-Circularity		≤1.0 %	
Mechanical Specifications	Proof Test		≥1.0 %	
	Peak Coating Strip Force		1.0~8.9 N	
Environmental Specifications	Temperature Cycling Induced Attenuation @1310nm,1550nm,1625nm(-60°C to +85°C)		≤0.05 dB/km	

### FIBERS AND TUBE COLOR CODE

