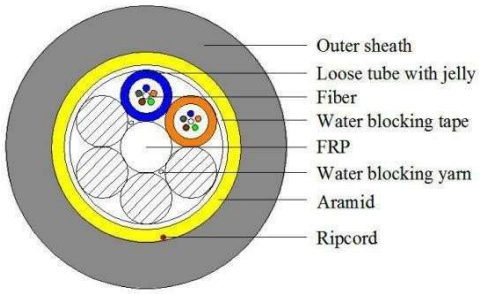
PRODUCT SPECIFICATION

Optical Cable

Ver.2020041801

ADSS



CONSTRUCTION

Structure	Unit	Parameter			
Fiber count	fibers	36	48	72	96
Fiber type	--	G.652D			
Element		6	6	6	8
Cores per tube		12	12	12	12
Loose tube Diameter	mm	Φ2.1	Φ2.1	Φ2.1	Φ2.1
Central strength member	--	FRP			
Strength member	--	Aramid yarn			
Outer sheath thickness	mm	1.5			
Outer sheath material	--	HDPE			
Cable diameter	mm	10.2	10.2	10.2	11.5
Weight	Kg/km	78	79	80	103
Tensile strength (MAT)	N	1800	1800	1800	2700

CABLE PROPERTIES

Span		m	MAX: 80
The relative dip		%	1
Crush Resistance		N/100mm	1000
Bending Radius	Dynamic	--	≥20×Cable Diameter
	Static	--	≥10×Cable Diameter
Operating Temperature		℃	-40 ~+70

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FIBER CHARACTERISTICS

Category	Description		Specifications
			G.652D(After Cabling)
Optical Specifications	Attenuation	@1310 nm	≤0.36 dB/km
		@1550 nm	≤0.22 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^2.km
	Dispersion	@1310 nm	≤3.5 ps/nm.km
		@1550 nm	≤18 ps/nm.km
	PMD Link value		≤0.15 ps/km$^{1/2}$
	Cable Cutoff Wavelength(λcc)		≤1260 nm
	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℃to+85℃)		≤0.05 dB/km

FIBERS AND TUBE COLOR CODE

Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua