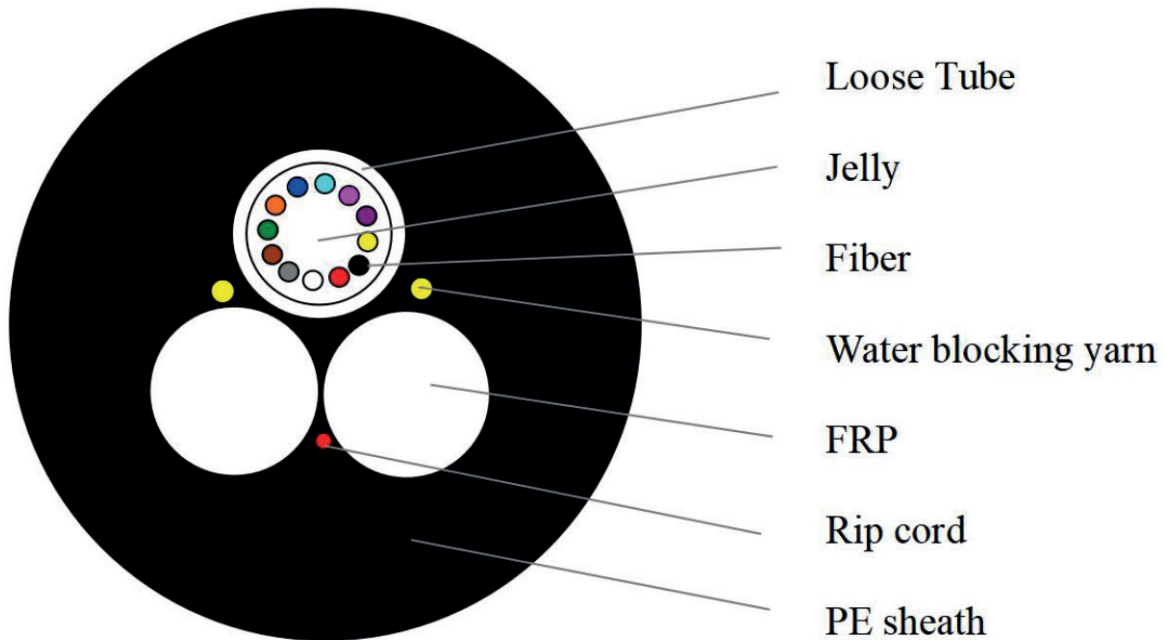


TECHNICAL DATA SHEET
FOR
Single Mode Optical Fiber Cable
Outdoor Duct / aerial Application
(ASU cable 12 Fibers 100mtrs Span)



1. ASU Outdoor Optical Fiber Cable

1.1 Cable Cross-section



1.3 Fiber and loose tube color code

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

2.Cable Details

2.1 ASU Structure and specification details

No. of fiber		--	12
Fiber type		--	G.652D
Span		m	100
Strength member	Material	mm	FRP
	Diameter (±0.05mm)		2.0mm*2
Loose tube	Material	mm	PBT
	Diameter (±0.05mm)		2.2mm
Water Blocking Layer	Material	--	Filling Compound
Ripcord		--	1*2000D
Water blocking yarn		--	2*2000D
Outer Sheath	Material	--	PE
	Colour		Black
Cable Diameter (±0.2mm)		mm	8.0
Attenuation coefficient	1310nm	dB/km	≤0.35dB/km
	1550nm		≤ 0.21dB/km
Related Tension Strength		N	6900
Max Allowed Tension			2800
Crush Resistance	Short term	N/100mm	≥1000
	Long term		≥300
Min.bending radius	Without Tension	mm	10 times Cable Diameter
	Under Maximum Tension		20 times Cable Diameter
Temperature range(℃)	Installation	℃	-20℃ to 60℃
	Transport&Storage		-40℃ to 70℃

Remark: [Mechanical sizes are nominal values]

2.2 Main technical specification of optical fiber (G.652D)

Category	Description		Specifications	
			G.652D	
			Before cable	After cable
Optical Specifications	Attenuation	@1310nm	≤0.35dB/km	≤0.36dB/km
		@1383nm	≤0.35dB/km	≤0.36dB/km
		@1550nm	≤0.20dB/km	≤0.22dB/km
		@1625nm	≤0.24dB/km	≤0.25dB/km
	Attenuation discontinuity		≤0.05 dB	
	Attenuation vs. Wavelength	@1285~1330nm	≤0.05 dB/km	
		@1525~1575nm	≤0.05 dB/km	
	Zero Dispersion Wavelength		1300~1324nm	
	Zero Dispersion Slope		≤0.092ps/(nm2.km)	
	Dispersion	@1310nm	≤3.5 ps/nm.km	
		@1550nm	≤18 ps/nm.km	
	Polarization Mode Dispersion(PMD)		≤0.2ps/km ^{1/2}	
	Cable Cutoff Wavelength(λ_{cc})		≤1260nm	
	Effective Group Index of Refraction	@1310nm	1.4675	
		@1550nm	1.4681	
Geometric Specifications	Macro bend loss (30mm radius ,100turns) 1625nm		≤0.1 dB	
	Mode Field Diameter	@1310nm	9.2±0.6μm	
		@1550nm	10.4±0.8μm	
	Cladding Diameter		125±1μm	
	Cladding Non-Circularity		≤1.0%	
	Coating Diameter		245±7μm	
	Coating/Cladding Concentricity Error		≤8μm	
Mechanical Specifications	Core/Cladding Concentricity Error		≤0.8μm	
	Proof Test level		≥1.0%	
	Fiber Curl Radius		≥4.0m	
	Peak Coating Strip Force		1.3~8.9N	

3. Packing and Marking

3.1 Packing

5km per wooden drum;

Packing length as your requirement.