

# BAYLITE OPTO-ELECTRONICS TECHNOLOGY CO., LTD.

Model Name :

Sub-groups Single-Mode Optical Fiber 96C OFNR Cable.

Application :

1. The tight-buffered Sub-groups optical fiber cable is designed for indoor vertical and horizontal connections between terminals. It also can be directly assembled with connectors as pigtail to speed up the installations.
2. Flame-retardant for indoor installations.

Features :

- Optical fiber follows ITU G.652.D. standard.
- Corning SMF-28e Optical Fiber.
- Flame Propagation : OFNR riser-rated.
- Conform to WEEE RoHS standard.

Quality Assurance System :

- Cable type approved by CHT, Taiwan.
- Test Specifications for Bellcore GR-409-core

Fiber :

- Mode-Field Diameter  
9.2 ±0.4 μm at 1310 nm  
10.4 ±0.8 μm at 1550 nm
- Cladding Diameter  
125 ± 0.7 μm
- Core-Clad Concentricity  
≤0.5 μm
- Cladding Non-Circularity  
< 1.0%
- Core Non-Circularity  
≤ 1.0%
- Coating Geometry  
245 ± 10 μm
- Coating-Cladding Concentricity  
< 12 μm
- Proof test level  
100 kpsi (0.7 GN/m<sup>2</sup>)
- Cable Cutoff Wavelength ( λ ccf)  
Δ ccf ≤ 1260nm

Attenuation Range :

- @1310nm ≤0.5dB/km
- @1550nm ≤0.4dB/km

Construction :

Item		Specification
Fiber Counts		96 Fibers
Tight Buffered	Diameter	0.9 ±0.05 mm
	Color Code	Blue 、 Orange 、 Green 、 Brown 、 Slate 、 White 、 Red 、 Black 、 Yellow 、 Violet 、 Rose and Aqua
	Material	PVC - UL 1581 VW1
Sub-cable	Counts	12 Cores
	Diameter	5.5 ±0.1 mm
	Color Code	Blue 、 Orange 、 Green 、 Brown 、 Slate 、 White 、 Red and Black
	Paper to Wind	-
	Strength Member	Kevlar
	Material	PVC – UL OFNR Rate
Central Filler	Diameter	9.0 ±0.1 mm
	Material	PVC and Kevlar
Interstice Filler	Diameter	None or 1.8 ±0.05 mm
	Material	PVC
Paper to Wind	-	
Outer Jacket	Diameter	23.5 ±0.3mm
	Color	Yellow
	Material	PVC – UL OFNR Rate
Ripcord	-	

Mechanical Properties :

Weight	390 Kg/Km	
Tensile Load	Short-Term	12000N
	Long-Term	4000N
Minimum Bending Radius	Loaded	36 cm
	Unload	24 cm

Identification :

Plus CORNING SMF-28e Optical Fiber 96C Cable OFNR ( F. RoHS )  
mm/yy 0000M

Drawing :

