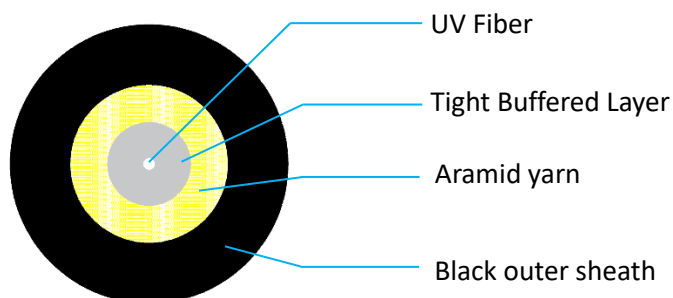


# Drop Cable 1FO

## Cable Design

*Drop Cable-Aramid yarn Reinforcing-Dielectric-Tight Buffered G.657A1 Fiber*



## Cable Specification

Item	Material	Description
outer sheath	Black TPU	Nominal thickness: 0.65mm
Aramid yarn	Aramid yarn	Strength member
Tight buffered layer	white LSZH	Diameter: 0.9mm
Fiber	Silicon-based fiber (G.657A1)	UV fiber colored with: Nature
Cable O.D.	3.0±0.1mm	
Cable weight	7.4±1kg/km	

## Main Mechanical and Environmental Characteristic

Item	Specified Value	Acceptance Criteria
1	Tensile Load	400N
2	Crush	500N/10cm
3	Temperature	-25°C~+60°C
4	Application	Indoor & outdoor

# Drop Cable 1FO

## Cabled Fiber Performance (G.657A1)

Characteristics		Acceptance Value
Attenuation	@1310nm	$\leq 0.35\text{dB/km}$
	@1383nm	$\leq 0.34\text{dB/km}$
	@1550nm	$\leq 0.21\text{dB/km}$
	@1625nm	$\leq 0.23\text{dB/km}$
Mode Field Diameter	@1310nm	$8.8 \pm 0.4 \mu\text{m}$
Dispersion	@1300 +30/-15nm	$\leq 3.5\text{ps}/(\text{nm}\cdot\text{km})$
	@1550nm	$\leq 18\text{ps}/(\text{nm}\cdot\text{km})$
	@1625nm	$\leq 22\text{ps}/(\text{nm}\cdot\text{km})$
Zero-Dispersion Wavelength		1300nm ~ 1324nm
Zero-Dispersion Slope		$\leq 0.092\text{ps}/(\text{nm}^2\cdot\text{km})$
Cable Cutoff Wavelength $\lambda_{cc}(\text{nm})$		$\leq 1260\text{nm}$
Cladding Diameter		$125 \pm 0.7 \mu\text{m}$
Macrobend loss	15mm radius, 10 turn, @1550	$\leq 0.25\text{dB}$
	15mm radius, 10 turn, @1625	$\leq 1.0\text{dB}$
	10mm radius, 1 turn, @1550	$\leq 0.75\text{dB}$
	10mm radius, 1 turn, @1625	$\leq 1.5\text{dB}$
Cladding Non-circularity		$\leq 0.7\%$
Core/Cladding Concentricity Error		$\leq 0.5 \mu\text{m}$
Proof Test		$\geq 0.69\text{GPa}$ (100kpsi)
Dynamic Fatigue		$\geq 20$

## Sheath Marking

The outer sheath is marked in 1 meter intervals as follows:

**In Accordance with Custom's Requirement**

## Delivery Length

Standard delivery length will be 2 km.

## Drum Marking

Drum marking will comply with custom's requirement.