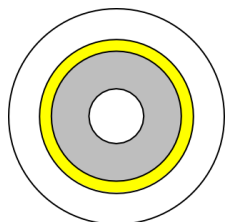


Drop Cable Indoor 1FO

Cable Design

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



- **Tight Buffered Fiber:** G.657A1 fiber tight buffered to 900 μ m
- **Aramid yarns:** additional strength member
- **Outer Sheath:** White or Black LSZH

Cable Specification

Cable Cores		1
No. of fiber		1
Tight buffer- ϕ	mm	0.9
LSZH outer sheath	mm	0.5mm
Nom. Cable Diameter	mm	3.0 \pm 0.2
Nom. Cable Weight	Kg/km	8.5

Cable Application

Temperature Range		Minimum Bend Radius	
Transportation & Storage	-20 \sim +60 $^{\circ}$ C	Load	20 \times D
Installation	-10 \sim +50 $^{\circ}$ C	Unload	25 \times D

Main Mechanical and Environmental Characteristic

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile	IEC 60794-1-2-E1	TM : 270N, 5min	$\Delta\alpha\leq 0.05$ dB, fiber strain $\leq 0.6\%$
		TL : 90N, 5min	$\Delta\alpha\leq 0.05$ dB, fiber strain $\leq 0.2\%$
Crush	IEC 60794-1-2-E3	1500N/10cm, 1min	$\Delta\alpha\leq 0.10$ dB, no damage
Impact	IEC 60794-1-2-E4	3J, 1time in 3 points	$\Delta\alpha\leq 0.10$ dB, no damage
Torsion	IEC 60794-1-2-E7	± 1800 , 20cycles, 20N	$\Delta\alpha\leq 0.10$ dB, no damage
Repeated Bending	IEC 60794-1-2-E6	R=15D, 50N, 100cycles	$\Delta\alpha$ reversible, no damage
Bend	IEC 60794-1-2-E11	R=5D, 3cycles	No residual attenuation, no damage
Temperature Cycling	IEC 60794-1-2-F1	-10 \sim +60 $^{\circ}$ C, 2cycles, 18h	$\Delta\alpha\leq 0.05$ dB/km, no damage

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Cabled Fiber Performance (G.657A1)

Characteristics		Acceptance Value
Attenuation	@1310nm	≤0.35dB/km
	@1383nm	≤0.34dB/km
	@1550nm	≤0.21dB/km
	@1625nm	≤0.23dB/km
Mode Field Diameter	@1310nm	8.6±0.4 μm
Dispersion	@1300 +30/-15nm	≤3.5ps/(nm·km)
	@1550nm	≤18ps/(nm·km)
	@1625nm	≤22ps/(nm·km)
Zero-Dispersion Wavelength		1300nm~1324nm
Zero-Dispersion Slope		≤0.092ps/(nm ² ·km)
Cable Cutoff Wavelength λ _{CC} (nm)		≤1260nm
Macrobend loss	30mm radius, 10 turn, @1550	≤0.25dB
	30mm radius, 10 turn, @1625	≤1.0dB
	20mm radius, 1 turn, @1550	≤0.75dB
	20mm radius, 1 turn, @1625	≤1.5dB
Cladding Diameter		125±0.7μm
Coating Diameter (Uncolored)		245±10μm
Cladding Non-circularity		≤0.7%
Core/Cladding Concentricity Error		≤0.6μm
Proof Test		≥0.69GPa (100kpsi)
Dynamic Fatigue		≥20

Fiber & Tube Color

Color Identification of Fiber

No	1
Color	Natural

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.