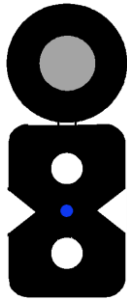


FTTH Drop Optic Fiber Cable

Cable Design

3 unit-Bow type cable-LSZH- G.657A1 Fiber



Strength Member: FRP
Messenger: Phosphating steel wire
Outer Sheath: Black LSZH

Cable Specification

Cable Cores		1	2	4
Thickness of Outer Sheath	mm	0.4		
Nominal. Cable Diameter	mm	$(5.2 \pm 0.2) * (2.0 * 3.0 \pm 0.1)$		
Tensile Force	N	600		
Nominal Cable Weight	Kg/km	20		

Cable Application

Temperature Range		Minimum Bend Radius	
Transportation & Storage	-30~+60°C	Load	30×D
Operation	-30~+60°C	Unload	15×D

Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile	IEC 60794-1-2-E1	600N, 10min	After test $\Delta\alpha \leq 0.4\text{dB}$, at 1550nm
Crush	IEC 60794-1-2-E3	1000N, 1min, 3times	$\Delta\alpha$ reversible, no damage
Impact	IEC 60794-1-2-E4	1J, R=300mm, 3times	$\Delta\alpha$ reversible, no damage
Repeated Bending	IEC 60794-1-2-E6	R=30D	$\Delta\alpha$ reversible, no damage
Temperature Cycling	IEC 60794-1-2-F1	-30~+60°C, 2cycles, 4h	$\Delta\alpha$ reversible, no damage

Fiber Color

Color Identification of Fiber

Number	1	2	3	4
Color	Blue	Orange	Green	Brown

Cabled Fiber Performance (G.657A1)

Characteristics		Acceptance Value
Attenuation	@1310nm	≤ 0.35 dB/km
	@1550nm	≤ 0.23 dB/km
Mode Field Diameter	@1310nm	8.8 ± 0.6 μ m
	@1550nm	10.4 ± 0.5 μ m
Dispersion	@1300 +30/-15nm	≤ 3.5 ps/(nm \cdot km)
	@1550nm	≤ 18.0 ps/(nm \cdot km)
	@1625nm	≤ 22 ps/(nm \cdot km)
Zero-Dispersion wavelength		1300nm ~ 1324nm
Zero-Dispersion slope		≤ 0.092 ps/(nm 2 \cdot km)
Cable cutoff wavelength λ_{cc} (nm)		≤ 1260 nm
Cladding diameter		125 ± 1.0 μ m
Macrobend loss	15mm radius, 10turn, @1550	≤ 0.25 dB
	15mm radius, 10turn, @1625	≤ 1.0 dB
	10mm radius, 1turn, @1550	≤ 0.75 dB
	10mm radius, 1turn, @1625	≤ 1.5 dB
Cladding non-circularity		$\leq 0.8\%$
Core/cladding concentricity error		≤ 0.6 μ m
Fiber diameter with coating (uncolored)		245 ± 10 μ m
Cladding/coating concentricity error		≤ 12.0 μ m
Proof stress		≥ 0.69 GPa(100kpsi)
Dynamic stress corrosion susceptibility parameter (typical value)		≥ 20

Sheath Marking

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

According to customer's requirement

Delivery Lengths

According to customer's requirement