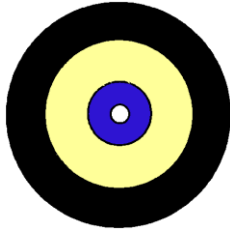


Drop Cable Specification

Cable Design

Optical Fiber Cable-Dielectric-Single Sheath-G.657A2 Fiber



Tight buffer: LSZH

Aramid yarns: reinforcement members

Outer Sheath: TPU, black

Cable Specification

Number of fiber		1
Nominal Cable Diameter	mm	3.0
Cable Weight	kg/km	9

Cable Application

Temperature Range		Minimum Bend Radius	
Storage	-30~+60°C	Load	20×D
Operation	-30~+60°C	Unload	10×D

Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile	IEC 60794-1-2-E1	800N, 10min	$\Delta\alpha \leq 0.1\text{dB}$, no damage
Crush	IEC 60794-1-2-E3	500/10cm, 1min	$\Delta\alpha$ reversible, no damage
Repeated Bending	IEC 60794-1-2-E6	R=20D, 20N, 300cycles	$\Delta\alpha$ reversible, no damage
Impact	IEC 60794-1-2-E4	1J, R=300mm, 3times	$\Delta\alpha$ reversible, no damage
Torsion	IEC 60794-1-2-E7	20N, 20cycles, +/-180°	$\Delta\alpha$ reversible, no damage
Temperature Cycling	IEC 60794-1-2-F1	-30~+60°C, 2cycles	$\Delta\alpha$ reversible, no damage

Cabled Fiber Performance (G.657A2)

Characteristics		Acceptance Value
Attenuation	@1310nm	$\leq 0.35\text{dB/km}$
	@1550nm	$\leq 0.22\text{dB/km}$
Mode Field Diameter	@1310nm	$8.6 \pm 0.4\mu\text{m}$
Dispersion	@1288nm~1339nm	$\leq 3.5\text{ps}/(\text{nm}\cdot\text{km})$
	@1500nm	$\leq 18\text{ps}/(\text{nm}\cdot\text{km})$

Zero-Dispersion Wavelength	1300nm~1324nm	
Zero Dispersion Slope	$\leq 0.092\text{ps}/(\text{nm}^2.\text{km})$	
Cable Cutoff Wavelength $\lambda_{cc}(\text{nm})$	$\leq 1260\text{nm}$	
Macrobend loss	10mm radius, 1 turn, @1550	$\leq 0.10\text{dB}$
	10mm radius, 1 turn, @1625	$\leq 0.20\text{dB}$
	7.5mm radius, 1 turn, @1550	$\leq 0.50\text{dB}$
	7.5mm radius, 1 turn, @1625	$\leq 1.00\text{dB}$
Cladding Diameter	$125\pm 0.7\mu\text{m}$	
Cladding Non-circularity	$\leq 0.7\%$	
Core/cladding Concentricity Error	$\leq 0.5\mu\text{m}$	
Fiber Diameter with Coating (colored)	$250\pm 10\mu\text{m}$	
Cladding/Coating Concentricity Error	$\leq 12.0\mu\text{m}$	
Proof stress	$\geq 0.69\text{GPa}(100\text{kpsi})$	
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 Requirements

Delivery Lengths

Standard delivery length will be 1 or 2km.