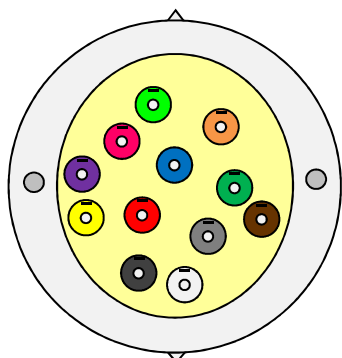


Indoor Riser Cable Specification

Cable Design

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



- **Subunit:** LSZH Tight buffer fiber.
- **Strength member:** GFRP inside the outer sheath.
- **Outer Sheath:** White LSZH.

Cable Specification

Cable Cores		12
Tight buffer Diameter	mm	0.9
Nominal Cable Diameter	mm	9.0
Nominal Cable Weight	Kg/km	63
Max.Tensile	N	400
Max.Crush	N/10cm	500

Cable Application

Temperature Range		Minimum Bend Radius	
Installation	-5~+50℃	Load	20×D
Operation	-30~+70℃	Unload	10×D

Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile	IEC 60794-1-2-E1	Tensile, 10min	$\Delta\alpha$ reversible, no damage
Crush	IEC 60794-1-2-E3	500N/10cm, 5min	$\Delta\alpha$ reversible, no damage
Repeated Bending	IEC 60794-1-2-E6	R=20D, 20N, 25cycles	$\Delta\alpha$ reversible, no damage
Impact	IEC 60794-1-2-E4	1J, 3times	$\Delta\alpha$ reversible, no damage
Torsion	IEC 60794-1-2-E7	20N, 10cycles, +/-180°	$\Delta\alpha$ reversible, no damage
Temperature Cycling	IEC 60794-1-2-F1	-30~+60℃, 2cycles	$\Delta\alpha\leq 0.05\text{dB/km}$, 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±0.4μm
Dispersion	@1288nm~1339nm	≤3.5ps/(nm·km)
	@1500nm	≤18ps/(nm·km)
Zero-Dispersion Wavelength		1300nm~1324nm
Zero Dispersion Slope		≤0.092ps/(nm ² .km)
Cable Cutoff Wavelengthλ _{cc} (nm)		≤1260nm
Macrobend loss	10mm radius, 1 turn, @1550	≤0.10dB
	10mm radius, 1 turn, @1625	≤0.20dB
	7.5mm radius, 1 turn, @1550	≤0.50dB
	7.5mm radius, 1 turn, @1625	≤1.00dB
Cladding Diameter		125±0.7μm
Cladding Non-circularity		≤0.7%
Core/cladding Concentricity Error		≤0.5μm
Fiber Diameter with Coating (colored)		250±10μm
Cladding/Coating Concentricity Error		≤12.0μm
Proof stress		≥0.69GPa(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 Requirements

Delivery Lengths

Standard delivery length will be 1 or 2km.