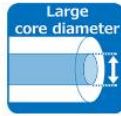




G.654.D

Z-PLUS Fiber™ 130

Advanced Pure Silica Core Single Mode Optical Fiber



- Ultra-low attenuation of 0.150 dB/km, and large effective area of 130 μm^2 typical
- For transoceanic (6,000 – 12,000 km) systems

General

Effective Area

Typical effective area at 1550 nm 130 μm^2

Attenuation

Typical attenuation at 1550 nm 0.152 dB/km

Core Glass

Pure Silica

Optical Characteristics

Attenuation

Attenuation at 1550 nm 0.152 \pm 0.003
 (Average in total quantity) dB/km

Point discontinuity at 1550 nm \leq 0.05 dB

Effective Area

Effective area at 1550 nm 130 \pm 15 μm^2

Chromatic Dispersion

Chromatic dispersion at 1550 nm \leq 22 ps/nm/km

Chromatic dispersion slope at 1550 nm \leq 0.070 ps/nm²/km

Cable Cutoff Wavelength (λ_{cc})

λ_{cc} \leq 1530 nm

Polarization Mode Dispersion (PMD)

Individual fiber PMD*1) \leq 0.1 ps/r-km

*1) Measured on fiber with free tension. PMD values may change when fiber is cabled. This PMD value will be achieved when cabled properly.

This document states a standard specification. Upon request, alternative value offerings will be available.

Geometrical Characteristics

Glass Geometry

Core - cladding concentricity error \leq 0.8 μm

Cladding diameter 125.0 \pm 1.0 μm

Cladding non-circularity \leq 2.0 %

Coating Geometry

Coating diameter (Natural) 245 \pm 10 μm

Coating diameter (Colored) 250 \pm 15 μm

Coating-cladding concentricity error \leq 12 μm

Mechanical Characteristics

Proof Test

Proof stress level 2.0%
 (200 kpsi = 1.43 GPa)

Macrobending Loss

Bending radius	Number of turns	Wavelength	Induced Attenuation
30 mm	100	1550 nm	\leq 2.0 dB
30 mm	100	1625 nm	\leq 2.0 dB

Packaging

Delivery Length

5 – 100 km