

G.652.D

DurableBand™

Low Water Peak Single-Mode Fiber

DurableBand™ low water peak single-mode fiber is applied in 1260-1625nm all band transmission systems, with low loss at 1383nm, fully utilizing E-band transmission. DurableBand™ exceeds the requirements of ITU-T G.652.D, and is suitable for high-capacity, long-distance transmission. Accurate dimension ensures low splicing loss and high splicing efficiency, excellent mechanical properties and environmental characteristics ensure stable performance of optical fibers in various usage environments.

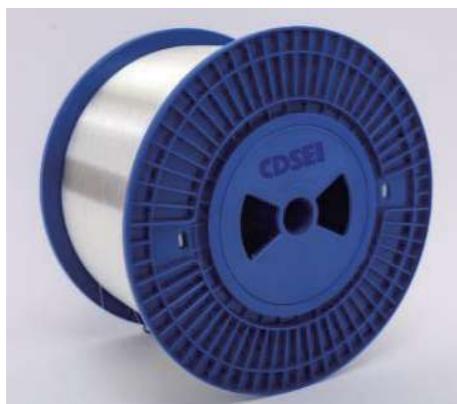
Optical Characteristics

Attenuation	
1310nm	≤0.35dB/km
1383nm	≤0.33dB/km
1550nm	≤0.21dB/km
1625nm	≤0.23dB/km

Point Discontinuity	
1310/1550nm	≤0.02dB

Cut-off Wavelength	
Cable cut-off wavelength (λ_{cc})	≤1260nm

Mode Field Diameter (MFD)	
MFD at 1310nm	9.2±0.4μm

**Geometric Characteristics**

Geometrical Parameter	
Cladding diameter	125±0.7μm
Core/clad concentricity error	≤0.5μm
Cladding non-circularity	≤1.0%
Fiber curl R	≥4m
Coating diameter	245±10μm
Coating-Cladding Concentricity	≤10μm



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Mechanical Characteristics

Proof Test	
Proof stress level	0.90GPa (1.3%, 130kpsi, 11.76N)
Strip Force	
Force (peak)	1.0N≤F≤8.9N
Force (average)	1.0N≤F≤5.0N
Tensile Strength	
Unaged (median; 0.5m)	≥3.80GPa (≥550kpsi)
Aged (median; 0.5m)	≥3.14GPa (≥460kpsi)
Dynamic fatigue parameters	
Fatigue	≥20

Environmental Characteristics

Test items	Conditions	Induced Attenuation at 1550, 1625nm
Temperature	-60°C to + 85°C	≤0.03dB/km
Water Immersion	+ 23°C/30Days	≤0.03dB/km
Steady damp-heat	+ 85°C/85%RH/30Days	≤0.03dB/km
Dry heat aging	+ 85°C/30Days	≤0.03dB/km