

G.652.D

DurableBand™ 180μm

Low Water Peak Single-Mode Fiber

DurableBand™ 180μm low water peak single-mode fiber exceeds the requirements of ITU-T G.652.D. This fiber has a cross-section of only 54% of standard fiber and 80% of 200μm ordinary small diameter fiber, which helps to miniaturize equipment or accommodate more quantities of fiber under the same laying conditions, maintains the same glass outer diameter and precise geometric size control as conventional optical fibers while significantly reducing the coating. It ensures low splicing loss and high splicing efficiency, excellent mechanical properties and environmental characteristics ensure stable performance of optical fibers in various usage environments.

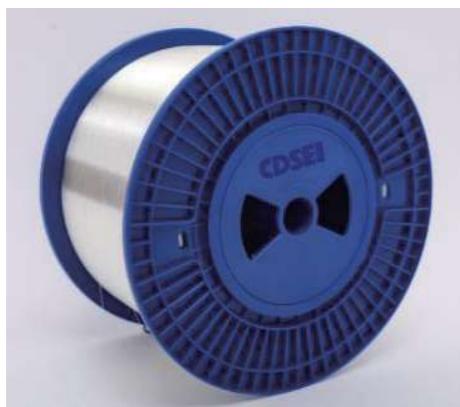
Optical Characteristics

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	180±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)	0.6N≤F≤8.9N
Force (average)	0.6N≤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