

G.652.D/G.657.A1

**DurableBand™ -R 200μm [LL]**

Low Loss Large Mode Field Anti-Bending Low Water Peak Single-Mode Fiber

DurableBand™ -R 200μm [LL] low loss large mode field anti-bending low water peak single-mode fiber significantly reduces attenuation in the entire wavelength range of 1260~1625nm. DurableBand™ -R 200μm [LL] exceeds the requirements of ITU-T G.652.D and ITU-T G.657.A1. It is suitable for high-capacity, long-distance transmission and access network. 200μm coating diameter effectively reduces the size and weight of optical cables, making it more suitable for miniaturized optical cables. 9.2 micron mode field diameter (MFD) 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	≤0.32 dB/km
1383nm	≤0.32 dB/km
1550nm	≤0.18 dB/km
1625nm	≤0.20 dB/km

## Point Discontinuity

1310/1550nm	≤0.02dB
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## Cut-off Wavelength

Cable cut-off wavelength (λcc)	≤1260nm
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## Mode Field Diameter (MFD)

MFD at 1310nm	9.2±0.4μm
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## Macro bending Induced Attenuation

Bending radius	Number of Turns	Wavelength	Attenuation
10mm	1	1550nm	≤0.75dB
10mm	1	1625nm	≤1.50dB
15mm	10	1550nm	≤0.25dB
15mm	10	1625nm	≤1.00dB

## Dispersion

Zero-dispersion wavelength	1300-1324nm
Zero-dispersion slope	0.073~0.092ps/nm²/km
Dispersion at 1550 wavelength	≤18.6ps/nm/km

## Polarization Mode Dispersion

Max. individual fiber PMD	≤0.2ps/√km
PMD link design value	≤0.1ps/√km

## 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	200±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