

**FiberHome® G.652D + G.657A1 single mode fiber**

<b>G.652D + G.657A1 fiber characteristics</b>		
<b>Optics specifications</b>		
Attenuation	@1310nm	≤0.34dB/km
	@1383nm	≤0.34dB/km
	@1550nm	<0.19dB/km
	@1625nm	≤0.24dB/km
Dispersion	@1285nm~1340nm	-3.0ps/(nm·km)~ 3.0ps/(nm·km)
	@1550nm	≤18ps/(nm·km)
	@1625nm	≤22ps/(nm·km)
Zero-Dispersion wavelength		1300nm~1324nm
Zero-Dispersion slope		≤0.092ps/(nm <sup>2</sup> ·km)
Mode field diameter (MFD) at 1310nm		9.2±0.4μm
Mode field diameter (MFD) at 1550nm		10.4±0.8μm
PMD	Max. for fiber on the reel	0.2ps/km <sup>1/2</sup>
	Max. for link designed value	0.1ps/km <sup>1/2</sup>
Cable cutoff wavelength λ <sub>cc</sub> (nm)		≤1260nm
Effective group index (N <sub>eff</sub> ) @1310nm		1.4683
Effective group index (N <sub>eff</sub> ) @1550nm		1.4688
<b>Back scatter characteristics (at 1310nm&amp;1550nm)</b>		
Point discontinuity		≤0.05dB
Attenuation uniformity	1285nm~1330nm	≤0.03dB/km
	1525nm~1575nm	≤0.02dB/km
<b>Geometrical characteristics</b>		
Cladding diameter		125±0.7μm
Cladding non-circularity		≤0.7%
Core/cladding concentricity error		≤0.5μm
Fiber diameter with coating (uncolored)		245±10μm
Cladding/coating concentricity error		≤12.0μm
Curl		≥4m
<b>Mechanical characteristics</b>		
Proof stress		≥0.69GPa(100kpsi)
Coating strip force (typical value)		1.0~8.9N
Dynamic stress corrosion susceptibility parameter (typical value)		≥20
Macrobend loss	Φ30mm,10turn @1550nm	≤0.25dB
	Φ30mm,10turns @1625nm	≤1.0dB
	Φ20mm,1turn @1550nm	≤0.75dB
	Φ20mm,1turns @1625nm	≤1.5dB
<b>Environmental characteristics (at 1310nm &amp; 1550nm)</b>		
Temperature induced attenuation(-60~+85°C)		≤0.05dB/km
Dry heat induced attenuation (85°C±2°C, 30 days)		≤0.05dB/km
Water immersion induced attenuation (23°C±2°C, 30 days)		≤0.05dB/km

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Damp heat induced attenuation (85°C±2°C, RH85%, 30 days)	≤0.05dB/km
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