



## 9μm G652D FIBER

DESCRIPTION	VALUE	UNIT
<b>Optical characteristics</b>		
Attenuation	1310 nm	<0.36 [dB / km]
	1383 nm (After H <sub>2</sub> aging)	<0.35 [dB / km]
	1550 nm	<0.22 [dB / km]
	1625 nm	<0.24 [dB / km]
Dispersion coefficient	1285 - 1340 nm > -3.0	<3.0 [ps / (nm • km)]
	1550 nm	<18 [ps / (nm • km)]
	1625 nm	<22 [ps / (nm • km)]
Zero dispersion wavelength	>1302	<1322 [nm]
Zero dispersion slope		<0.091 [ps / (nm <sup>2</sup> • km)]
Polarization Mode Dispersion		
PMD Maximum Individual Fibre		<0.2 [ps / √km]
PMD Design Link Value		<0.08 [ps / √km]
Fiber cutoff wavelength	>1180	<1330 [nm]
Cable cutoff wavelength		<1260 [nm]
Mode field diameter (MFD)	1310 NM	9.2±0.4 [μ m]
	1550 NM	10.4±0.8 [μ m]
Group index of refraction (Typical)	1310 NM	1.466
	1550 NM	1.467
<b>Backscatter characteristics</b>		
Step (mean of bidirectional measurement)		<0.05 [dB]
Irregularities over fibre length and point discontinuity		<0.05 [dB]
Difference backscatter coefficient (bidirectional measurement)		<0.03 [dB / km]
Attenuation uniformity		<0.01 [dB / km]
<b>Geometrical characteristics</b>		
Cladding diameter		125.0±1.0 [μ m]
Cladding non-circularity		<1.0 [%]
Coating diameter		242±7 [μ m]
Coating / cladding concentricity error		<12.0 [μ m]
Coating non-circularity		<6.0 [%]
Core / cladding concentricity error		<0.6 [μ m]
Curl (radius)		<4 [μ m]



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DESCRIPTION	VALUE	UNIT
● Environmental characteristics	1310 nm, 1550 nm	
Temperature dependence		
Induced attenuation	-60°C to +85°C	<0.05 [dB / km]
Temperature-humidity cycling		
Induced attenuation	-10°C to +85°C, 90% R.H.	<0.05 [dB / km]
Damp heat dependence		
Induced attenuation	85°C, 85% R.H., 30 days	<0.05 [dB / km]
Watersoak dependence		
Induced attenuation	-20°C for 30 days	<0.05 [dB / km]
● Mechanical characteristics		
Proof test	off line	>9.0 [N]
		>1.0 [%]
		>100 [kpsi]
Bending Dependence	1550 nm	
Induced Attenuation	1 turn, 32mm diameter	<0.50 [dB]
	100 turns, 60mm diameter	<0.50 [dB]
Coating strip force	typical average force	1.7 [N]
	peak force	>1.3 <8.9 [N]
Dynamic stress corrosion susceptibility parameter (nd, Typical)		>27