



9µm G657A2 BENDING INSENSITIVE FIBER

DESCRIPTION	VALUE	UNIT
● Optical characteristics		
Attenuation	1310 nm 1383 nm (After H ₂ aging) 1490 nm (After H ₂ aging)	<0.35 <0.35 <0.23
Attenuation vs. Wavelength	1550 nm 1625 nm	[dB / km] [dB / km]
Max. A difference	1285 - 1330 nm 1550 - 1575 nm	<0.03 <0.02
Zero dispersion wavelength		<1300 - 1324 [nm]
Zero dispersion slope		<0.092 [ps / (nm ² • km)]
PMD Maximum Individual Fibre		<0.2 [ps / √km]
Link Design Value (M=20, Q=0.01%)		<0.1 [ps / √km]
Typical value		0.04 [ps / √km]
Cable cutoff wavelength		<1260 [nm]
Mode field diameter (MFD)	1310 nm 1550 nm	8.8±0.4 [µ m] 9.8±0.5 [µ m]
Effective group index of refraction (Ne _r)	1310 nm 1550 nm	1.466 1.467
Point discontinuities	1310 nm, 1550 nm	<0.05 [dB]
● Geometrical characteristics		
Cladding diameter		124.8±0.7 [µ m]
Cladding non-circularity		<0.7 [%]
Coating diameter		245±5 [µ m]
Coating / cladding concentricity error		<12.0 [µ m]
Coating non-circularity		<6.0 [%]
Core / cladding concentricity error		<0.5 [µ m]
Curl (radius)		>4 [m]
Delivery length		2.1 to 50.4 [km/reel]



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DESCRIPTION	VALUE	UNIT
● Environmental characteristics		
Temperature dependence	1310 nm, 1550 nm & 1625 nm	
Induced attenuation at	-60°C to +85°C	<0.05 [dB / km]
Temperature-humidity cycling		
Induced attenuation at	-10°C to +85°C, 98% R.H.	<0.05 [dB / km]
Damp heat dependence		
Induced attenuation at	85°C, 85% R.H., 30 days	<0.05 [dB / km]
Watersoak dependence		
Induced attenuation at	23°C for 30 days	<0.05 [dB / km]
Dry heat aging at	85°C	<0.05 [dB / km]
● Mechanical Specification		
Proof test	off line >9.0 [N] >1.0 [%] >100 [kpsi]	
Macro-bend induced attenuation		
10 turns around a mandrel of 30 mm diameter	1550 nm 1625 nm	<0.03 [dB] <0.1 [dB]
10 turns around a mandrel of 30 mm diameter	1550 nm 1625 nm	<0.1 [dB] <0.2 [dB]
1 turns around a mandrel of 20 mm diameter	1550 nm 1625 nm	<0.1 [dB] <0.2 [dB]
1 turns around a mandrel of 20 mm diameter	1550 nm 1625 nm	<0.5 [dB] <1.0 [dB]
1 turns around a mandrel of 15 mm diameter	1550 nm 1625 nm	<0.5 [dB] <1.0 [dB]
Coating strip force	typical average force peak force	1.7 [N] >1.3 <8.9 [N]
Dynamic stress corrosion susceptibility parameter (nd, Typical)		>20