9µm G657A1 BENDING INSENSITIVE FIBER

DESCRIPTION	VALUE		UNIT
● Optical characteristics			
	1310 nm	<0.35	[dB / km]
	1383 nm (After H_2 aging)	<0.35	[dB / km]
Attenuation	1490 nm (After H_2 aging)	<0.25	[dB / km]
	1550 nm	<0.21	[dB / km]
	1625 nm	<0.23	[dB / km]
Attenuation vs. Wavelength	1285 - 1330 nm	<0.03	[dB / km]
Max. A difference	1550 - 1575 nm	<0.02	[dB / km]
Zero dispersion wavelength		1312±10	[nm]
Zero dispersion slope		<0.090	[ps / (nm^2 • km)]
PMD Maximum Individual Fibre		<0.2	[ps / $\sqrt{km}$]
Link Design Value (M=20, Q=0.01%)		<0.1	[ps / $\sqrt{km}$]
Typical value		0.086	[ps / $\sqrt{km}$]
Cable cutoff wavelength		<1260	[nm]
Mode field diameter (MFD)	1310 nm	9.0±0.4	[µ m]
	1550 nm	10.1±0.5	[µ m]
Effective group index of refraction (Netr)	1310 nm	1.466	
	1550 nm	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	1310 nm, 1550 nm & 1625 nm		
Temperature dependence			
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			
100 turns around a mandrel of 50 mm diameter	1550 nm & 1625 nm	<0.05	[dB]
10 turns around a mandrel of 30 mm diameter	1550 nm	<0.1	[dB]
10 turns around a mandrel of 30 mm diameter	1625 nm	<0.3	[dB]
1 turns around a mandrel of 20 mm diameter	1550 nm	<0.1	[dB]
1 turns around a mandrel of 20 mm diameter	1625 nm	<0.5	[dB]
Coating strip force	typical average force	1.7	[N]
	peak force >1.3	<8.9	[N]
Dynamic stress corrosion susceptibility parameter (nd, Typical)		>20	