

Characteristics	Conditions	Specified Values	Units
<b>Optical Characteristics</b>			
Attenuation	1310 nm	≤0.30	[dB/km]
	1550 nm	≤0.17	[dB/km]
	1625 nm	≤0.20	[dB/km]
Attenuation vs. Wavelength	1285–1330nm	≤0.03	[dB/km]
Max. $\alpha$ difference	1525–1575nm	≤0.02	[dB/km]
Dispersion coefficient	1285–1340 nm	≥-3.4, ≤3.4	[ps/(nm·km)]
	1550 nm	≤18	[ps/(nm·km)]
	1625 nm	≤22	[ps/(nm·km)]
Zero dispersion wavelength		1312 ± 12	[nm]
Zero dispersion slope		≤0.092	[ps/(nm <sup>2</sup> ·km)]
<b>PMD</b>			
Maximum Individual Fibre		≤0.1	[ps $\sqrt{\text{km}}$ ]
Link Design Value (M=20,Q=0.01%)		≤0.06	[ps $\sqrt{\text{km}}$ ]
Typical value		0.04	[ps $\sqrt{\text{km}}$ ]
Cable cutoff wavelength $\lambda_{cc}$		≤1260	[nm]
Mode field diameter (MFD)	1310 nm	8.7–9.5	[ $\mu\text{m}$ ]
	1550 nm	9.9–10.9	[ $\mu\text{m}$ ]
Effective group index of refraction ( $N_{\text{eff}}$ )	1310 nm	1.463	
	1550 nm	1.464	
Point discontinuities	1310 nm	≤0.05	[dB]
	1550 nm	≤0.05	[dB]
<b>Geometrical Characteristics</b>			
Cladding diameter		125.0 ± 0.7	[ $\mu\text{m}$ ]
Cladding non-circularity		≤1.0	[%]
Coating diameter		245 ± 7	[ $\mu\text{m}$ ]
Coating-cladding concentricity error		≤12.0	[ $\mu\text{m}$ ]
Coating non-circularity		≤6.0	[%]
Core-cladding concentricity error		≤0.6	[ $\mu\text{m}$ ]
Curl (radius)		≥4	[m]
Delivery length		2.1 to 25.2	[km/spool]
<b>Environmental Characteristics (1310 nm, 1550 nm &amp; 1625 nm)</b>			
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% RH	≤0.05	[dB/km]
Watersoak dependence Induced attenuation at	23°C, for 30 days	≤0.05	[dB/km]
Damp heat dependence Induced attenuation at	85°C and 85% RH, for 30 days	≤0.05	[dB/km]
Dry heat aging at	85°C	≤0.05	[dB/km]
<b>Mechanical Specification</b>			
Proof test		≥9.0	[N]
		≥1.0	[%]
		≥100	[kpsi]
Macro-bend induced attenuation			
1 turn around a mandrel of 20 mm diameter	1550 nm	≤0.5	[dB]
1 turn around a mandrel of 20 mm diameter	1625 nm	≤1.5	[dB]
10 turns around a mandrel of 30 mm diameter	1550 nm	≤0.05	[dB]
10 turns around a mandrel of 30 mm diameter	1625 nm	≤0.3	[dB]
Coating strip force	typical average force	1.5	[N]
	peak force	≥1.3 ≤8.9	[N]
Dynamic stress corrosion susceptibility parameter $n_4$		≥20	