ClearCurve® XB

Optical Specifications

Cable Cutoff Wavelength (λ_{cf}) (nm)	≤ 1260	
Maximum Attenuation	Wavelength (nm)	Maximum Value* (dB/km)
	1310	0.33 - 0.35
	1550	0.19 - 0.20
	1625	0.20 - 0.23

* Maximum specified attenuation value available within the stated ranges
** Attenuation post-hydrogen aging according to IEC 60793-2-50 Section C.5 for B.1.3 fibers.

Mode-field Diameter	Wavelength (nm)	MFD (µm)
	1310	8.6 ± 0.4
	1550	9.8 ± 0.5
Dispersion	Wavelength (nm)	Dispersion Value [ps/(nm·km)]
	1550	≤ 18.0
	1625	≤ 22.0

Zero Dispersion Wavelength (λ_0): 1304 nm ≤ λ_0 1324 nm
Zero Dispersion Slope (So): ≤ 0.089 ps/(nm^2•km)

Polarization Mode Dispersion (PMD) Maximum Individual Fiber	Value (ps/√km) ≤ 0.1

Point Discontinuity	Wavelength (nm)	Point Discontinuity (dB)
	1310	≤ 0.05
	1550	≤ 0.05

Key Geometric, Mechanical and Environmental Specifications

Cladding Diameter (µm)	125.0 ± 0.7
Core-Clad Concentricity (µm)	≤ 0.5
Cladding Non-Circularity (%)	≤ 0.7
Coating Diameter (µm)	242 ± 5
Coating-Cladding Concentricity (µm)	< 12
Coloring Diameter* (µm)	250 +15/-9
Fiber Curl (m)	≥ 4.0 radius of curvature

* If applicable

Environmental Test	Test Condition	Induced Attenuation 1310 nm, 1550 nm & 1625 (dB/km)
Temperature Dependence (°C)	-60 to 85 *	≤ 0.05
Temperature-Humidity Cycling (°C)	-10 to 85 * up to 98% RH	≤ 0.05
Water Immersion (°C)	23 * ± 2	≤ 0.05
Dry Heat Soak (°C)	85 * ± 2	≤ 0.05
Damp Heat (°C)	85 * at 85% RH	≤ 0.05
Operating Temperature Range (°C)	-60 to 85	
Proof Test (kpsi)	≥ 200	
Lengths	Available up to 50.4 km per spool	

* Reference temperature: 23°C

ClearCurve® XB

Performance Characterizations*

Index of Refraction (Core)	1.45		
Numerical Aperture	0.13		
Macrobend Loss			
Mandrel Diameter (mm)	Number of Turns	Wavelength (nm)	Induced Attenuation** (dB)
20	1	1625	1.5
20	1	1550	0.5

* Values in this table are nominal or calculated values

** The induced attenuation due to fiber wrapped around a mandrel of a specified diameter.