

Specification

Characteristics	Condition	Value	Unit
Optical Characteristics			
Attenuation	1550nm 1625nm	≤ 0.22 ≤ 0.24	dB/km
Attenuation vs Wavelength Max. Difference @1550nm	1525~1575nm	≤ 0.02	dB/km
Dispersion in the Range of Wavelength	1530~1565nm 1565~1625nm	$\geq 2.0 \leq 6.0$ $\geq 4.5 \leq 11.2$	ps/(nm.km) ps/(nm.km)
Zero Dispersion Wavelength		≤ 1520	nm
Zero Dispersion Slope Typical Value	1550nm 1550nm	≤ 0.084 0.075	ps/(nm ² .km) ps/(nm ² .km)
PMD Maximum Individual Fibre (M=20,Q=0.01%) Typical Value		≤ 0.20 ≤ 0.08 0.04	ps/√km ps/√km ps/√km
Cable Cut-Off Wavelength λ_{cc}		≤ 1450	nm
MFD	1550nm	9.6 ± 0.5	μm
Effective Group Index of Refraction	1550nm & 1625nm	1.469	
Point Discontinuities	1550nm	≤ 0.05	dB
Geometrical Characteristics			
Cladding Diameter		124.8 ± 0.7	μm
Cladding Non-Circularity		≤ 1.0	%
Coating Diameter		245 ± 7	μm
Coating-Cladding Concentricity Error		≤ 12.0	μm
Coating Non-Circularity		≤ 6.0	%
Core-Cladding Concentricity Error		≤ 0.6	μm
Curl (radius)		≥ 4	m
Delivery Length		2.1~25.2	km/reel
Environmental Characteristics (1550nm, 1625nm)			
Temperature Dependence Induced attenuation at	-60°C~+80°C -10°C ~+85°C, 98% Relative Humidity	≤ 0.05 ≤ 0.05	dB/km dB/km
Watersoak Dependence Induced Attenuation at	23°C, 30 days	≤ 0.05	dB/km
Damp Heat Dependence Induced Attenuation at	85°C & 85% Relative Humidity, 30 days	≤ 0.05	dB/km
Dry Heat at	85°C	≤ 0.05	dB/km
Mechanical Specification			
Proof Test		≥ 9.0	N
Macro-Bend Induced Attenuation 1circle Φ32mm 100circle Φ50mm 100circle Φ60mm	1550nm 1310nm & 1550nm 1625nm	≤ 0.05 ≤ 0.05 ≤ 0.05	dB dB dB
Coating strip force	Typical Average Peak	1.5 ≥ 1.3 ≤ 8.9	N N N
Dynamic Stress Corrosion Susceptibility Parameter Nd		≥ 20	

