

Optical characteristics	UNIT	Specified value
Attenuation 850 nm	< 2.4	dB/km
1300 nm	< 0.6	dB/km
Attenuation at waterpeak 1383 nm	< 2.0	dB/km
Attenuation discontinuities (OTDR 1300 nm)	< 0.05	dB
Macrobending loss		
Bending induced attenuation (100 turns)	< 0.5	dB
Bandwidth 850 nm	500	MHz·km
(***Overfilled launch Led sources)		
1300 nm	500	MHz·km
(***Overfilled launch Led sources)		
Numerical aperture n.a.	0.200 +/- 0.015	-
Geometrical characteristics		
Core diameter	50 +/- 2.5	µm
Core non-circularity	< 5	%
Core /clad concentricity error	< 1,5	µm
Cladding diameter	125 +/- 2.0	µm
Cladding non-circularity	< 1	%
Coating diameter (without ink)	245 +/- 10	µm
Coating/Clad concentricity error	< 10	µm
Standard lengths: 1.1, 1.4, 1.7, 2.2, 3.3, 4.4, 6.6, 8.8		km
Mechanical and environmental characteristics		
Proof test	100 kpsi	8.8 N
Dynamic tensile strenght Unaged fiber Median		>550 kpsi
Weibull slope		> 30
Aged fiber Median		> 440 kpsi
Weibull slope		> 25
Dynamic fatigue Stress corrosion parameter		> 20
Coating strip force (typical)		1.9 N
Operating temperature range		-60...+85 °C
Temperature induced attennuation 850/1300 nm		< 0.2 dB/km
(-60.. +85 °C)		
Temperature / humidity cycle induced attennuation 850/1300 nm		< 0.2 dB/km
(-10....+85 °C, 4....85% R.H.)		
Heat ageing after 30 days at +85°C/ 85% R.H 850/1300 nm		< 0.2 dB/km
Water immersion (Fiber soaked in water +23°C for 30 days) 850/1300 nm		< 0.2 dB/km