



Specialty multimode or singlemode fiber with special coating to withstand severe temperature fluctuations, from -65 to +300°C.

Applications: Optical fiber sensors, data communications, data transmission.

GEOMETRICAL / MECHANICAL CHARACTERISTICS		HTF62	HTF50	HTF10
Core Diameter (μm)		62.5 ± 2.5	50 ± 2.5	---
Modal Field Diameter (μm)	1310 nm	---	---	9.2 ± 0.4
	1550 nm	---	---	10.5 ± 0.8
Core non-circularity (%)		≤ 6	≤ 5	---
Core / Cladding Concentricity Error (μm)		≤ 3	≤ 1.5	≤ 0.8
Cladding Diameter (μm)		125 ± 2	125 ± 2 / ± 1	125 ± 1
Cladding non-circularity (%)		≤ 2		≤ 1
Primary Coating Diameter (μm)		145 ± 5		245 ± 10
Proof Test		≥ 50 Kpsi / ≥ 4.4 N		≥ 100 Kpsi / ≥ 8.8 N

OPTICAL CHARACTERISTICS		HTF62	HTF50	HTF10
Attenuation Coefficient (dB/Km)	850 nm	≤ 2.8 - ≤ 3.2	≤ 2.4 - ≤ 2.6	---
	1300 nm	≤ 0.6 - ≤ 1.0	≤ 0.6 - ≤ 0.8	---
	1310 nm	---	---	≤ 0.35 - ≤ 0.38
	1383 nm	---	---	≤ 1.0
	1550 nm	---	---	≤ 0.21 - ≤ 0.25
Bandwidth (MHz x Km)	850 nm	≥ 160 - ≥ 400	≥ 400 - ≥ 750	---
	1300 nm	≥ 200 - ≥ 600	≥ 500 - ≥ 1200	---
Numerical Aperture		0.275 ± 0.015	0.200 ± 0.015	---
Cut-off Wavelength (nm)		---	---	1190 - 1330
Zero Dispersion Wavelength (nm)		---	---	1300 ≤ λ ₀ ≤ 1324
Zero Dispersion Slope (ps / nm ² Km)		---	---	0.092
Group Index of Refraction	850 nm	1.497	1.483	---
	1300 nm	1.493	1.478	---
	1310 nm	---	---	1.467
	1550 nm	---	---	1.467

TEMPERATURE RANGE		HTF62	HTF50	HTF10
Operational Temperature Range	HTF xx / 200	-60°C to +200°C		
	HTF xx / 300	-65°C to +300°C		

All technical specifications are subject to change without prior notice.