



WAVEOPTICS

G.652.D

Optical Fiber Specifications

**TECHNICAL
INFORMATION**



WAVEOPTICS Fiber (F) G.652.D

Optical fiber specifications before cabling

CHARACTERISTICS		WAVEOPTICS G.652.D
Fiber Code		F
Attenuation	1310 nm	≤ 0.33 dB/km
	1550 nm	≤ 0.19 dB/km
Attenuation vs Wavelength Max. difference of α	1285-1330 nm	≤ 0.05 dB/km
	1525-1575 nm	≤ 0.05 dB/km
Mode field diameter	1310 nm	9.2 ± 0.4 μ m
	1550 nm	10.3 ± 0.4 μ m
Max. PMD per fiber		≤ 0.15 ps/ \sqrt km
Point discontinuities	1310 nm	≤ 0.05 dB
	1550 nm	≤ 0.05 dB
Cutoff wavelength		≤ 1260 nm
Dispersion values	1550 nm	≤ 18 ps/nm*km
	1625 nm	≤ 22 ps/nm*km





Physical Characteristics

CHARACTERISTICS	WAVEOPTICS G.652.D
Cladding diameter	$125.0 \pm 0.7 \text{ } \mu\text{m}$
Core-cladding concentricity error	$\leq 0.6 \text{ } \mu\text{m}$
Cladding non-circularity	$\leq 1.0 \%$
Coating diameter	$245.0 \pm 7 \text{ } \mu\text{m}$
Coating-cladding concentricity error	$\leq 12 \text{ } \mu\text{m}$

Environmental Characteristics

CHARACTERISTICS	CONDITIONS	WAVEOPTICS G.652.D
Temperature cycling	-60°C to $+85^{\circ}\text{C}$	$\leq 0.05 \text{ dB/km}$
Water immersion	$23^{\circ}\text{C} \pm 2^{\circ}\text{C}$	$\leq 0.05 \text{ dB/km}$
High temperature aging	$85^{\circ}\text{C} \pm 2^{\circ}\text{C}$	$\leq 0.05 \text{ dB/km}$

