WAVEOPTICS

G.657.A2

Optical Fiber Specifications

TECHNICAL INFORMATION

WAVEOPTICS

WAVEOPTICS FIBER (E) **G.657.A2**

Optical fiber specifications before cabling

CHARACTERISTICS		WAVEOPTICS G.657.A2
Fiber Code		E
Attenuation	1310 nm	≤ 0.35 dB/km
	1383 nm	≤ 0.35 dB/km
	1490 nm	≤ 0.25 dB/km
	1550 nm	≤ 0.21 dB/km
	1625 nm	≤ 0.23 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	8.2 - 9.0 um
	1550 nm	9.15 - 10.15 um
Group refractive index	1310 nm	1.466
	1550 nm	1.467
PMD link design value		≤ 0.1 ps/√km
Max. PMD per fiber		≤ 0.15 ps/√km
Point discontinuities	1310 nm	≤ 0.05 dB/km
	1550 nm	≤ 0.05 dB/km
Cutoff wavelength		≤ 1260 nm

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Physical Characteristics

CHARACTERISTICS	WAVEOPTICS G.657.A2
Cladding diameter	125.0 ± 0.7 um
Core-cladding concentricity error	≤ 0.5 um
Cladding non-circularity	≤ 1.0 %
Coating diameter	245.0 ± 7 um
Coating-cladding concentricity error	≤ 12 um

Environmental Characteristics

CHARACTERISTICS	CONDITIONS	WAVEOPTICS G.657.A2
Temperature cycling	-60°C to +85°C	≤ 0.05 dB/km
Temperature & humidity cycling	-10°C to +85°C at 95% RH	≤ 0.05 dB/km
Water immersion	23°C ± 2°C	≤ 0.05 dB/km
High temperature aging	85°C ± 2°C	≤ 0.05 dB/km