

TeraSafe零水峰弯曲不敏感单模光纤光学特性



		TeraSafe™ 9/125 μm (G.657.A1)		TeraSafe™ Plus 9/125 μm (G.657.B2)	
衰减 Attenuation	@1310nm	≤ 0.35dB/km	≤ 0.35dB/km	≤ 0.35dB/km	≤ 0.35dB/km
	@1383nm	≤ 0.35dB/km (After H ₂ aging)	≤ 0.35dB/km (After H ₂ aging)	≤ 0.35dB/km (After H ₂ aging)	≤ 0.35dB/km (After H ₂ aging)
	@1460nm	≤ 0.25dB/km	≤ 0.25dB/km	≤ 0.25dB/km	≤ 0.25dB/km
	@1490nm		≤ 0.23dB/km	≤ 0.23dB/km	≤ 0.23dB/km
	@1550nm	≤ 0.21dB/km	≤ 0.21dB/km	≤ 0.21dB/km	≤ 0.21dB/km
	@1625nm	≤ 0.23dB/km	≤ 0.23dB/km	≤ 0.23dB/km	≤ 0.23dB/km
相对波长衰减变化 Attenuation vs. Wavelength	@1310nm	1285~1330nm	≤ 0.03dB/km	≤ 0.03dB/km	≤ 0.03dB/km
	@1550nm	1525~1575nm	≤ 0.02dB/km	≤ 0.02dB/km	≤ 0.02dB/km
色散 Dispersion coefficient		1285~1340nm	-3.0~3.0 ps/nm.km		
		@1550nm	≤ 18 ps/nm.km		
		@1625nm	≤ 22 ps/nm.km		
零色散波长 Zero dispersion wavelength			1300~1324nm		1300~1324nm
零色散斜率 Zero dispersion slope			≤ 0.092 ps/nm ² .km		≤ 0.092 ps/nm ² .km
零色散斜率(典型值) Zero dispersion slope(Typical)			≤ 0.086 ps/nm ² .km		
偏振模色散系数(PMD) Polarization Mode Dispersion	单根光缆最大值 Maximum Individual Fiber	≤ 0.1ps/√km	≤ 0.1ps/√km	≤ 0.1ps/√km	≤ 0.1ps/√km
	光纤链路值 Design Link Value	≤ 0.06ps/√km	≤ 0.06ps/√km	≤ 0.06ps/√km	≤ 0.06ps/√km
截止波长 Cut-off wavelength			≤ 1260nm		≤ 1260nm
模场直径(MFD) Mode field diameter(MFD)	@1310nm	8.8±0.4μm	8.8±0.4μm	8.8±0.4μm	8.8±0.4μm
	@1550nm	9.8±0.5μm	9.8±0.5μm	9.8±0.5μm	9.8±0.5μm
有效群折射率(典型值) Group Index of Refraction	@1310nm	1.466	1.466	1.466	1.466
	@1550nm	1.467	1.467	1.467	1.467

逆向散射特性^(註1) Backscatter Characteristics(@1310nm/@1550nm)

几何特性 Geometrical Characteristics

壳直径 Cladding diameter	125.0±0.7μm	125.0±0.7μm
壳偏心率 Cladding noncircularity	≤ 0.7%	≤ 0.7%
初始附着层(涂层)直径 Primary Coating diameter	245±5μm	245±5μm
涂层/纤壳同心度误差 Coating/Cladding concentricity error	≤ 12.0μm	≤ 12.0μm
涂层偏心率 Coating noncircularity	≤ 6.0%	≤ 6.0%
核壳同心度误差 Core/Cladding concentricity error	≤ 0.5μm	≤ 0.5μm
捲曲度(半径)Curl(Radius)	≥ 4m	≥ 4m

环境特性^(註2) Environmental Characteristics (@1310nm/@1550nm)

机械特性 Mechanical Characteristics

筛选张力(离线)Proof test (off line)	≥ 9.0N (≥ 100kpsi)	≥ 9.0N (≥ 100kpsi)
宏弯损耗 @1550nm Attenuation at bending dependence	1圈,ψ15mm 1 turn,15mm diameter	≤ 0.5dB
	1圈,ψ20mm 1 turn,20mm diameter	≤ 0.75dB
	10圈,ψ30mm 10 turn,30mm diameter	≤ 0.25dB
	100圈,ψ50mm 100 turn,50mm diameter	≤ 0.05dB
涂层剥离(典型值)Coating strip force(Typical)	1.7N	1.7N
动态疲劳参数(η _q ,典型值) Dyanamics stress corrosion susceptibility parameter(η _q , Typical)	≥ 27	≥ 27

注 1：特性同 TeraCap Specifications 逆向散射特性 Backscatter Characteristics(@1310nm/@1550nm) 表格栏。

注 2：特性同 TeraCap Specifications 环境特性 Environmental Characteristics (@1310nm/@1550nm) 表格栏。