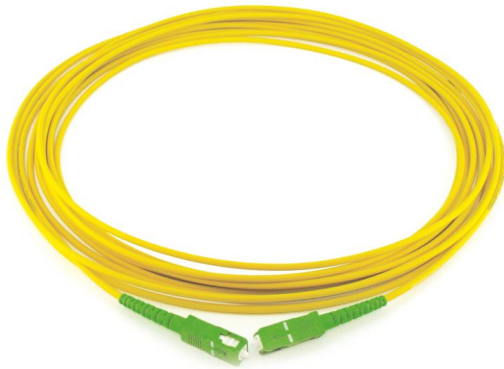


Single-Mode G657 Fiber



Features:

- Singlemode fiber
- Core and cladding 9/125 microns (um)
- Bend-Insensitive Fiber
- ANSI/TIA-568.D-3

Applications:

- Local Area Networks
- Data Centers
- Campus Networks
- Storage Area Networks
- Telecommunications networks
- CATV

Technical Specifications:

- Completely overcomes the attenuation of water peak at 1383 nm and can thereby operate over the entire wavelength from 1260 nm to 1625 nm
- Excellent bending performance, applicable to occasion with special requirement of bending radius
- Outstanding optical performance supports high-speed transmission requirement of DWDM and CWDM
- Compatible with existing 1310 nm equipment
- Accurate geometrical parameters ensures low splicing loss and high splicing efficiency
- Excellent PMD performance supports high-speed and long repeater spacing transmission system

Optical Characteristics

	Conditions	Units	Value
Attenuation non-cabled fiber	1310 nm	dB/km	≤0,36
	1383 nm	dB/km	≤0,35
	1550 nm	dB/km	≤0,22
	1310 nm - 1625 nm	dB/km	≤0,36
Attenuation cabled fiber, standard cable	1310 nm	dB/km	≤0,37
	1550 nm	dB/km	≤0,23
Attenuation cabled fiber, micro cable	1310 nm	dB/km	≤0,38
	1550 nm	dB/km	≤0,24
Zero Dispersion Wavelength		nm	1300 – 1322
Zero Dispersion Slope		ps/(nm ² -km)	≤0,091
- Typical Value		ps/(nm ² -km)	0,086
PMD			
- Maximum Individual Fiber		ps/√km m	0,2
- Link Design Value (M=20, Q=0,01%)		ps/√km m	0,1
- Typical Value		ps/√km m	0,04
Cable Cutoff Wavelength λ _{cc}		nm	≤1260
Fiber Cutoff Wavelength λ _c		nm	1150 – 1330

Mode Field Diameter	1310 nm	μm	8,7±0,4
	1550 nm	μm	9,8±0,5
Effective Group Refraction Index	1310 nm		1,4672
	1550 nm		1,4683
Attenuation Discontinuity	1310 nm	dB	≤0,05
	1550 nm	dB	≤0,05








Geometrical Characteristics

	Conditions	Units	Value
Cladding Diameter		μm	125±0,7
Cladding Non-circularity		%	≤0,8
Core-Cladding Concentricity Error		μm	≤0,5
Coating Diameter		μm	245±5
Cladding-Coating Concentricity Error		μm	≤12,0
Coating-Non-circularity		%	≤3,0
Curl		m	≥4,0

Environmental Characteristics (1310 nm, 1550 nm, 1625 nm)

	Conditions	Units	Value
Temperature Dependence Induced Attenuation	-60°C to + 85°C	dB/km	≤0,05
Temperature Humidity Cycling Induced Attenuation	85°C, RH85%, 30 days	dB/km	≤0,05
Water Soak Dependence Induced Attenuation	-23°C, 30 days	dB/km	≤0,05
Dry Heat Aging Induced Attenuation	-85°C, 30 days	dB/km	≤0,05

Connector Alternatives:

 <p>ST Connector</p>	 <p>SC Connector</p>	 <p>LC Connector</p>
 <p>FC Connector</p>	 <p>MTRJ Connector</p>	 <p>SC/APC Connector</p>
 <p>LC/APC Connector</p>		

Ordering Information:

Example	A	B	C	D	E	F	G	
150903S	150			9	03		S	
	See chart below			9= SM G657	Length in mt		D=Duplex S=Simplex	
	ABC							
		ST	SC	LC	FC	MTRJ	SC/APC	LC/APC
	ST	100	101	102	103	104	105	106
	SC	101	110	111	112	113	114	115
	LC	102	111	120	121	122	123	124
	FC	103	112	121	130	131	132	133
	MTRJ	104	113	122	131	140	141	142
	SC/APC	105	114	123	132	141	150	151
	LC/APC	106	115	124	133	142	151	160
	Pigtails	109	119	129	139	149	159	169