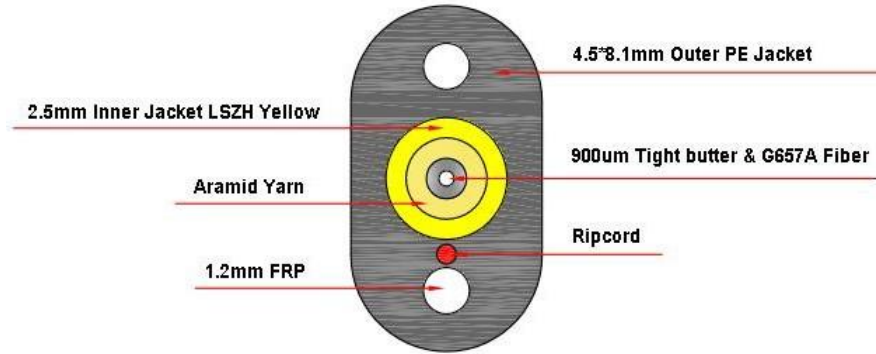


1 STRAND FLAT DROP SELF SUPPORTING OUTDOOR (OSP) SINGLEMODE FIBER OPTIC CABLE Part # FBTF-FDC-OSP-SM-1

Flat FTTH put inside with 2 FRP, the optical fiber unit positioned in the loose tube. Two parallel strength members are placed at the two sides and have loose tube to protect the inside FTTH, outside sheath is PE.

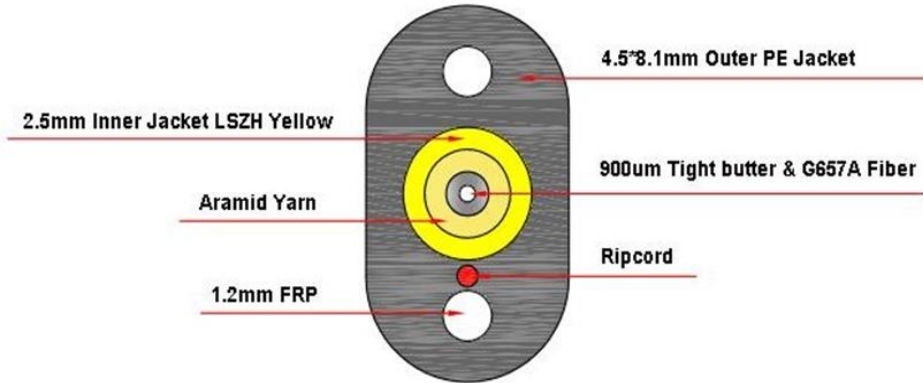


TiniFiber® Key Features

Items		Description
Number of fiber		1
Fiber Color		Blue
Fiber type		G652D/G657A1/G5657A2/G657B3
Strength member	material	FRP
	diameter	1.2±0.1mm
Inner Sheath	material	LSZH Loose Tube
	diameter	2.5mm±0.1mm
	Color	Yellow
Out sheath	material	PE
	Color	Black
	Thickness	0.9mm±0.1mm
Cable size (Height * width)		4.5x8.1±0.2mm
Cable weight/km		45KG±2KG

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Common Installations: Suitable for aerial and duct drop installation. Long distance & local area network communication



Fiber Characteristic

Fiber style	Unit	SM G652D	SM G657A1	SM G657A2
condition	nm	1310/1550	1310/1550	1310/1550
attenuation	dB/km	≤0.36/0.22	≤0.35/0.21	≤0.35/0.21
Dispersion	1310nm	Ps/(nm*km)	≤18	≤18
	1550nm	Ps/(nm*km)	≤22	≤22
Zero dispersion wavelength	nm	1312±10	1312±10	1300-1324
Zero dispersion slope	ps/(nm²xKm)	≤0.091	≤0.090	≤0.092
PMD Maximum Individual Fiber	[ps/√km]	≤0.2	≤0.2	≤0.2
PMD Design Link Value	ps/(nm²xKm)	≤0.08	≤0.08	≤0.08
Fiber cutoff wavelength λ _c	nm	≥1180, ≤1330	≥1180, ≤1330	≥1180, ≤1330
Cable cutoff wavelength λ _{cc}	nm	≤1260
MFD	1310nm	um	9.2±0.4	9.0±0.4
	1550nm	um	10.4±0.8	10.1±0.5
Step(mean of bidirectional measurement)	dB	≤0.05	≤0.05	≤0.05
Irregularities over fiber length and point discontinuity	dB	≤0.05	≤0.05	≤0.05
Difference backscatter coefficient	dB/km	≤0.03	≤0.03	≤0.03
Attenuation uniformity	dB/km	≤0.01	≤0.01	≤0.01
Cladding diameter	um	125.0±0.1	124.8±0.1	124.8±0.1



Flexible. Durable. Adaptable.

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Cladding non-circularity	%	≤1.0	≤0.7	≤0.7
Coating diameter	um	242±7	242±7	242±7
Coating/chaffinch concentricity error	um	≤12.0	≤12.0	≤12.0
Coating non circularity	%	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error	um	≤0.6	≤0.5	≤0.5
Curl(radius)	um	≥4	≥4	≥4
G657A1 fiber Environmental Characteristics (1310nm, 1500nm, & 1625nm)				
Temperature dependence Induced attenuation at		-60°C to +85°C	≤0.05	[db/Km]
Temperature-humidity cycling Induced attenuation at		-10°C to +85°C, 98% RH	≤0.05	[db/Km]
Water soak dependence Induced attenuation at		23°C for 30 days	≤0.05	[db/Km]
Damp heat dependence Induced attenuation at		85°C and 85% RH	≤0.05	[db/Km]
		for 30 days		
Dry heat aging at		85°C	≤0.05	[db/Km]
Mechanical Specification				
Proof test		off line	≥9.0	[N]
			≥1.0	[%]
			≥100	[kpsi]
Macro-bend induced attenuation				
100 turns around a mandrel of 50 mm diameter				
10 turns around a mandrel of 15 mm diameter		1550nm	≤0.1	[dB]
10 turns around a mandrel of 15 mm diameter		1625nm	≤0.2	[dB]
1 turn around a mandrel of 10 mm diameter		1550nm	≤0.2	[dB]
1 turn around a mandrel of 10 mm diameter		1625nm	≤0.3	[dB]
Coating strip force		typical average force	1.7	[N]



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	peak force	≥ 1.3 ≤ 8.9	[N]
Dynamic stress corrosion susceptibility parameter nd(typical)		≥ 20	
G657A2 fiber Environmental Characteristics (1310nm, 1500nm, & 1625nm)			
Temperature dependence Induced attenuation at	-60°C to +85°C	≤ 0.05	[db/Km]
Temperature-humidity cycling Induced attenuation at	-10°C to +85°C, 98% RH	≤ 0.05	[db/Km]
Water soak dependence Induced attenuation at	23°C for 30 days	≤ 0.05	[db/Km]
Damp heat dependence Induced attenuation at	85°C and 85% RH	≤ 0.05	[db/Km]
	for 30 days		
Dry heat aging at	85°C	≤ 0.05	[db/Km]
Mechanical Specification			
Proof test	Off line	≥ 9.0	[N]
		≥ 1.0	[%]
		≥ 100	[kpsi]
Macro-bend induced attenuation			
10 turns around a mandrel of 30 mm diameter	1550mm	≤ 0.3	[dB]
10 turns around a mandrel of 30 mm diameter	1625mm	≤ 0.1	[dB]
1 turns around a mandrel of 20 mm diameter	1550nm	≤ 0.1	[dB]
1 turns around a mandrel of 20 mm diameter	1625nm	≤ 0.2	[dB]
1 turn around a mandrel of 15 mm diameter	1550nm	≤ 0.5	[dB]
1 turn around a mandrel of 15 mm diameter	1625nm	≤ 1.0	[dB]
Coating strip force	typical average force	1.7	[N]
	peak force	≥ 1.3 ≤ 8.9	[N]
Dynamic stress corrosion susceptibility parameter ND(typical)		≥ 20	

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Cable Mechanical characteristic

Items		Description
Installation Temperature range		-20--+60°C
Operation and transport temperature		-40--+70°C
Min Bending Radius(mm)	Long term	15D
	short term	30D
Allowable Tensile Strength(N)	Long term	1000
	short term	2000
Crush Load (N/100mm)	Long term	600
	short term	1200
Span (m)		80