

Outdoor Single Mode FTTH Drop Fiber Cable - 1 Core

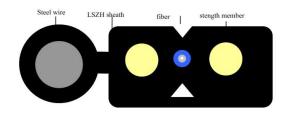
BSF-ODSMFT1

Broadstick provides high quality fiber optic cables compliant with TIA 568-C.3-1.

This Outdoor Single mode FTTH Drop Fiber Optic Cable provides a proper connection for FTTH networks, the operation is simple; the use is more convenient, greatly improving the working efficiency.

This cable offers good mechanical environmental characteristics and the Anti-UV characteristics meet the requirements of the FTTH standards.

Our fiber optic cables are factory tested complying with the requirements of the industry.



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Number of Fiber	1 Core		
Fiber Type	G567A1		
Strength Member Material	Steel Wire		
Strength Member Diameter	2*(0.5-0.8)mm		
Self Support Messenger material	FRP		
Self Support Messenger Diameter	1.0 mm		
Outer sheath material	LSZH		
Outer sheath Diameter	1.8mm		
Cable Size with Steel Wire	2.0mm x 5.2 mm		
Cable Size without Steel Wire	2.0mm x 3.0 mm		

Specification:

Our devices and factories have passed many quality system verifications, like CE, RoHS, FCC, that compliant with international quality standards that assure the production. We strictly implement the standardized management to control the design, production, and service.



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Cable Mechanical Characteristic

Items		Description	
Installation Temperature range		-20+60°C	
Operation and transport temperature		-40-+70°C	
Min Bending	Long term	15D	
Radius(mm)	short term	30D	
Allowable Tensile	Long term	300	
Strength(N)	short term	600	

Fiber Mechanical Characteristic

Fiber style		Unit	SM G657A1		
	conditio	on	nm	1310/1550	
	attenuat	ion	dB/km	≤3.5/0.21	
D.		1310nm	Ps/(nm*km)	≤18	
Dispe	ersion	1550nm	Ps/(nm*km)	≤22	
Zero	dispersion	wavelength	nm	1312±10	
Z	ero dispersio	on slope	ps/(nm²×Km)	≤0.090	
PMD N	Aaximum Inc	lividual Fiber	[ps/√km]	≤0.2	
PN	1D Design L	ink Value	ps/(nm²×Km)	≤0.08	
Fibe	r cutoff wav	elength λc	nm	≧1180,≤1330	
Cable	e cutoff wav	elength λcc	nm		
		1310nm	um	9.0±0.4	
MFD		1550nm	um	10.1±0.5	
Step(m	ean of bi	directional	dB	≤0.05	
	measurem	nent)			
Irregularities over fiber length and point discontinuity		dB	≤0.05		
Difference backscatter coefficient		dB/km	≤0.03		
Attenuation uniformity		dB/km	≤0.01		
Cladding diameter		um	124.8±0.1		
Cla	Cladding non-circularity		%	≤0.7	
	Coating dia	ımeter	um	242±7	
Coating/chaffinch concentrically error		um	≤12.0		

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Coating non circularity		%	≤6.0		
Core/cladding concentricity error		um	≤0.5		
Curl(radius)			um	≥4	
Fiber style		Unit	SM G657A1		
condition			nm	1310/1550	
attenuation	•	-	dB/km	≤3.5/0.21	
Dispersion		1310nm	Ps/(nm*km)	≤18	
		1550nm	Ps/(nm*km)	≤22	
Zero dispersion waveler	ngth		nm	1312±10	
Zero dispersion slope			ps/(nm²×Km)	≤0.090	
PMD Maximum Individu	ıal Fiber		[ps/√km]	≤0.2	
PMD Design Link Value	PMD Design Link Value		ps/(nm²×Km)	≤0.08	
Fiber cutoff wavelength λc		nm	≧1180,≤1330		
Cable cutoff wavelength λcc		nm			
MFD	1310nm		um	9.0±0.4	
1550nm			um	10.1±0.5	
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Difference backscatter of	Difference backscatter coefficient		dB/km	≤0.03	
Attenuation uniformity		dB/km	≤0.01		
Cladding diameter		um	124.8±0.1		
Cladding non-circularity		%	≤0.7		
Coating diameter		um	242±7		
Coating/chaffinch concentrically error		um	≤12.0		
Coating non circularity		%	≤6.0		
Core/cladding concentricity error		um	≤0.5		
Curl(radius)		um	≥4		

Environmental Characteristics

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]
Watersoak dependence Induced attenuation at	23°C for 30 days	≤0.05	[db/Km]
Damp heat dependence Induced attenuation at	85°C and 85% RH for 30 days	≤0.05	[db/Km]
Dry heat aging at	85°C	≤0.05	[db/Km]

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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 dimeter			[dB]
10 turns around a mandrel of 30 mm dimeter	1550nm	≤0.1	[dB]
10 turns around a mandrel of 30 mm dimeter	1625nm	≤0.3	[dB]
1 turn around a mandrel of 20 mm diameter	1550nm	≤0.1	[dB]
1 turn around a mandrel of 20 mm diameter	1625nm	≤0.5	[dB]
Coating strip force	typical average force	1.7	[N]
	peak force	≧1.3 ≤8.9	[N]
Daynamic stress corrosition susceptibility parameter nd(typical)		≧20	