

## Broadstick Outdoor FTTH Fiber Optic Patch Cords



Broadstick provides custom outdoor FTTH waterproof fiber optic patch cords compliant with TIA 568-C.3-1.

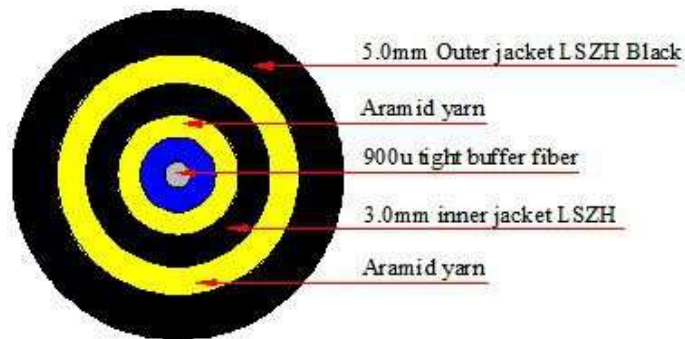
The Broadstick outdoor waterproof fiber Optic patch cords provide a high quality connection for FTTH, telecom rooms, equipment distribution areas, etc. This patch cord allows good protection against physical damage.



The patch cords are available in OM1, OM2, OM3, OM4 and OS1/OS2.

 **BROADSTICK**

### Cable Structure



### Cable Parameters

Cable Count	Out sheath Diameter (MM)	Weight (KG)	Minimum allowable Tensile Strength (N)		minimum allowable Crush Load (N/100mm)		Minimum Bending Radius (MM)		Storage temperature (°C)
			short term	long term	short term	long term	short term	long term	
1	5.0±0.2	26.5	800	400	2000	1000	20D	10D	-20 ~ +60

### Optical Characteristics

Item	Parameter				Reference
	Single mode		Multimode		
	Standard	Elite	Standard	Elite	
Insertion loss	Typical $\leq$ 0.30dB Max $\leq$ 0.75dB	Typical $\leq$ 0.15dB Max $\leq$ 0.35dB	Typical $\leq$ 0.50dB Max $\leq$ 0.25dB	Typical $\leq$ 0.10dB Max $\leq$ 0.35dB	IEC 61300-3-34
Return loss	$\geq$ 50dB (PC) $\geq$ 60dB (APC)	$\geq$ 55dB (PC) $\geq$ 65dB (APC)	$\geq$ 30dB(PC)	$\geq$ 30dB(PC)	IEC 61300-3-6

### End-Face Geometry

Item	UPC (Ref: IEC 61755-3-1)	APC (Ref: IEC 61755-3-2)
Radius of curvature (mm)	10 to 25	5 to 12
Fiber height (nm)	-100 to 100	-100 to 100
Apex offset ( $\mu$ m)	0 to 50	0 to 50
APC angle ( $^{\circ}$ )	/	$8^{\circ} \pm 0.2^{\circ}$
Key error ( $^{\circ}$ )	/	$0.2^{\circ}$ max

### Mechanical Characteristics

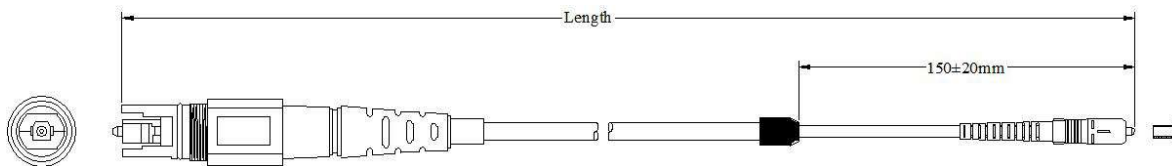
Test	Conditions	Reference
Endurance	500 matings	IEC 61300-2-2
Vibration	Frequency: 10 to 55Hz, Amplitude: 0.75mm	IEC 61300-2-1
Cable retention	100N (main cable); 50N (connector part)	IEC 61300-2-4
Strength of coupling mechanism	80N for 2 to 3mm cable	IEC 61300-2-6
Cable torsion	15N for 2 to 3mm cable	IEC 61300-2-5
Fall	10 drops, 1m drop height	IEC 61300-2-12
Static lateral load	1N for 1h (main cable); 0.2N for 5min (ranch part)	IEC 61300-2-42
Cold	-25 $^{\circ}$ C, 96h duration	IEC 61300-2-17
Dry heat	+70 $^{\circ}$ C, 96h duration	IEC 61300-2-18
Change of temperature	-25 $^{\circ}$ C to +70 $^{\circ}$ C, 12 cycles	IEC 61300-2-22
Humidity	+40 $^{\circ}$ C at 93%, 96h duration	IEC 61300-2-19



### Part Number Construction

The part number of one fiber armored optic patch cords and pigtails can be constructed with the next table. Use as reference the part number **BSO1-SMORSHASOA10** to request a Fiber Optic Outdoor patch cord duplex single mode, round cable, connectors A: SC/APC Huawei Connector, connectors B: SC/APC Optitap Connector of 10 meters.

BRAND		TYPE		TYPE		Jacket		Connector A		Connector B		Length (mts)	
BS	Broadstick	O1	Patch cord Outdoor Simplex	O1	OM1	OR	Outdoor Round	LCU	LC/UPC	LCU	LC/UPC	1F	1 Feet
		O2	Patch cord Outdoor Duplex	O2	OM2	OF	Outdoor Flat	LCA	LC/APC	LCA	LC/APC	1	1 Meter
				O3	OM3			SCU	SC/UPC	SCU	SC/UPC	10	10 Meters
				O4	OM4			SCA	SC/APC	SCA	SC/APC	xx	Custom
				O5	OM5			SHA	SC/APC Huawei	SHA	SC/APC Huawei		
				SM	SM			SOA	SC/APC Optitap	SOA	SC/APC Optitap		
								PTG	PIGTAIL	PTG	PIGTAIL		
								Custom	XXX	Custom	XXX		



For more information contact [sales@broadstick.com](mailto:sales@broadstick.com)

All Broadstick patch cords are tested in fabric.



[www.broadstick.com](http://www.broadstick.com)