

FBT-1×□□□ (FBT Splitter)

Fused Biconical Taper Optical Splitter

PRODUCT DESCRIPTION

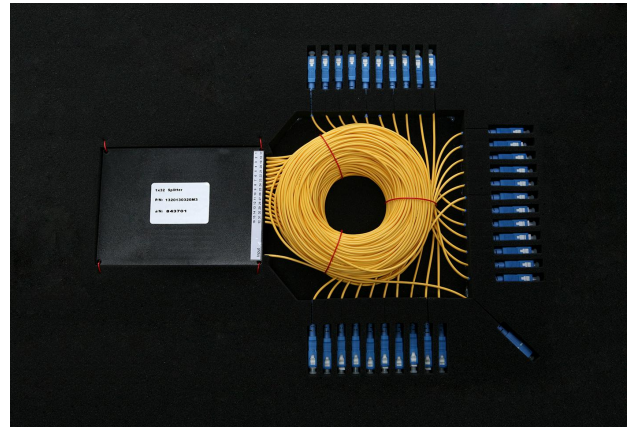
Fused Biconical Taper optical splitter(FBT Splitter), two or more fibers be tied together, then fused and stretched in Fused cone machine, real-time monitoring the change of splitting ratio. When the splitting ratio reaches the demand, fusion and stretch come to the end. One end reserve a fiber (cut off the rest) as input end, and another as multi-output end.

PRODUCT FEATURE

- ▶ Can be single/dual window
- ▶ Low loss
- ▶ Low polarization sensibility loss.
- ▶ Resistance to environmental change.
- ▶ Low added loss
- ▶ High wavelength isolation.
- ▶ Small size.
- ▶ Optional splitting ratio.

MAIN APPLICATION

- ▶ Optical communication equipment
- ▶ Optical Local Area Network(LAN)
- ▶ CATV
- ▶ FTTH
- ▶ Optical fiber sensor(OFS)
- ▶ Measuring device



TECHNIQUE INDEX

1×□□□ type optical splitter optical performance index :

Specification		1×002	1×003	1×004	1×005	1×006	1×007	1×008	1×N
Fiber type		G.657.A							
Optical wavelength		1310nm or 1550nm or 1310&1550nm or 1310&1490&1550nm							
Maximum insertion loss (dB)	Max	3.4	5.6	7.0	7.4	8.6	8.8	10.7	~
	Min	2.7	5.4	6.2	6.9	7.9	8.2	9.3	
Port insertion loss homogeneity (dB)		0.3	0.3	0.6	0.6	0.6	0.6	0.6	~
Wavelength insertion loss homogeneity (dB)		0.4	0.6	0.8	0.8	0.8	0.8	0.8	~
Return loss (dB)		≥55							
Directivity (dB)		≥55							
Package	Device type	3x35/3x40							
	Box Type	89x19x10mm/100x80x10mm				100x80x10mm			

Note: 1. Optical fiber type can be required be customer, e.g. G652D, G657A, 980nm etc;

2. Package type also can be with 900um type;

3. N=9,10,11 etc.

FBT-1×002 optical splitter single-window optical performance index :

Single-window (Plevel)						
	Main route			SUB route		
Splitting	Max	Type	Min	Max	Type	Min
50/50	3.00	3.25	2.70	3.40	3.25	2.70
45/55	2.90	2.80	2.30	3.80	3.70	3.10
40/60	2.50	2.40	2.00	4.40	4.30	3.70
35/65	2.10	2.05	1.50	4.90	4.80	4.20
30/70	1.80	1.20	1.40	5.60	5.30	4.90
25/75	1.50	1.40	1.20	6.50	6.40	5.80
20/80	1.10	1.04	0.90	7.40	7.30	6.90
15/85	0.90	0.85	0.60	8.80	8.07	8.00
10/90	0.60	0.55	0.40	10.80	10.50	9.60
5/95	0.40	0.36	NA	13.80	13.70	11.80
4/96	0.30	0.25	NA	15.50	15.00	12.30
3/97	0.30	0.25	NA	16.20	15.80	14.50
2/98	0.20	0.16	NA	19.00	18.00	16.80
1/99	0.20	0.16	NA	21.00	20.50	19.00

FBT-1×002 optical splitter Dual-window optical performance index :

Dual-window (Plevel)						
	Main route			SUB route		
Splitting	Max	Type	Min	Max	Type	Min
50/50	3.60	3.40	2.60	3.60	3.00	2.60
45/55	3.20	3.05	2.10	4.10	4.00	2.90
40/60	2.70	2.55	1.80	4.70	4.52	3.50
35/65	2.30	2.20	1.33	5.30	5.15	4.00
30/70	1.90	1.80	1.30	6.00	5.78	4.70
25/75	1.60	1.50	1.00	6.80	6.60	5.60
20/80	1.20	1.12	0.80	7.90	7.65	6.50
15/85	1.00	0.95	0.50	9.20	9.00	7.80
10/90	0.60	0.54	0.40	11.30	11.00	9.60
5/95	0.40	0.25	NA	15.20	14.60	11.80
4/96	0.30	0.25	NA	16.00	15.50	12.20
3/97	0.30	0.25	NA	17.40	16.50	14.00
2/98	0.20	0.16	NA	19.40	18.70	16.00
1/99	0.20	0.16	NA	21.50	21.00	18.00

ORDER INFORMATION

FBT - 1 × □□□ - □□□□ - □ - □□										
Fused Biconical Taper Optical Splitter (FBT Splitter)	Input port		Output port		Pass wavelength		Package		Optical connect	
	1	1□	002	2□	1310	1310nm	A	Device	FP	FC/UPC
			003	3□	1550	1550nm	B	Box	FA	FC/APC
			004	4□	1315	1310nm , 1550nm			SP	SC/UPC
			005	5□					SA	SC/APC
			006	6□					LP	LC/UPC
			007	7□					LA	LC/APC
			008	8□						
			N	N□						

Note: Can be multi-channel, non-average splitting ratio FBT type splitter