

FBT-2×□□□ (FBT Splitter)

Dual-wavelength Fused Bi-conical Taper splitter

PRODUCT DESCRIPTION

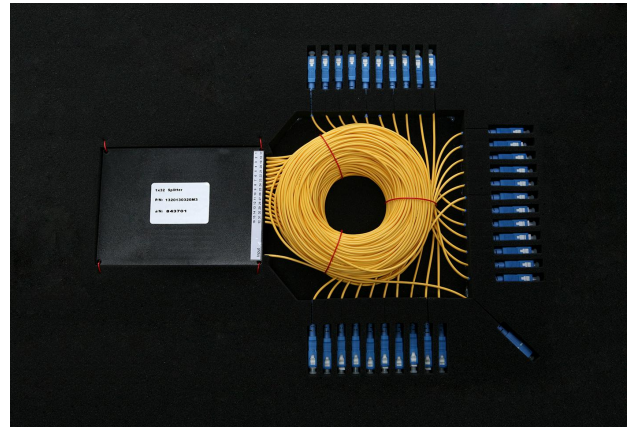
Fused Biconical Taper optical splitter(FBT Splitter), two or more fibers be tied together, then fused and stretched in Fused cone machine, real-time monitoring the change of splitting ratio. When the splitting ratio reaches the demand, fusion and stretch come to the end. One end reserve a fiber (cut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

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

Specification			2×002	2×004	2×008
Fiber type			G.657.A		
Optical wavelength			1260nm~1650nm		
Maximum insertion loss (dB)			More details please refer to (table 2, table 3)	≤7.4	≤10.7
Port insertion loss homogeneity (dB)			≤0.6	≤0.6	≤0.8
Wavelength insertion loss homogeneity (dB)			≤0.8	≤0.8	≤0.8
Return loss (dB)			≥55	≥55	≥55
Directivity (dB)			≥55	≥55	≥55
package	Device type		3×14×8		
	Box type	Minitype	89×19×10		
		General	100×80×10		

Note: 2×002 specific maximum insertion loss please refer to table 2, table 3

FBT-2×002 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-2×002 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 – 2 × □□□ – □□□□ – □ – □□											
Fused Biconical Taper Optical Splitter (FBT Splitter)	Input port		Output port		Pass wavelength		Package		Optical connect		
	2	2□	002	2□	1310	1310nm	A	Device	FP	FC/UPC	
			004	4□	1550	1550nm	B1	Box	FA	FC/APC	
			008	8□	1315	1310nm , 1550nm	B2		General	SP	SC/UPC
			xxx	□□□							SA
									LP	LC/UPC	
								LA	LC/APC		

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