

## FBT Optial Fiber Splitter with Steel Tube

### 1、 Cable Drawing



### 2、 Description

(FBT) Fused biconical taper splitter based on the traditional technology, it is to bundle together two or more optical fibers, and then pull the cone machine melt stretching, and real-time monitoring the change of the ratio, spectral ratio requirements after melt stretching, one side retain a single fiber (the rest of the cut) as input, the other end is a multi-channel output.

### 3、 Features

- Different combinations of coupling ratio
- Low crosstalk & excess loss
- High optical return loss
- Available in dual/single wavelength operation
- Optional connectors termination upon request

### 4、 Application

- CATV, LAN, WAN network
- Active devices
- Optical fiber communication system
- Telecommunication network
- EPON/GPON

## 5. Specification

Parameter	P grade	A grade	Unit
Port Type	1x2 or 2x2		/
Operating Wavelength	1310 ± 40 & 1550 ± 40		nm
Maximum Insertion Loss	≤3.5	≤3.7	dB
Return Loss	≥55		dB
Additional Loss	≤0.15	≤0.20	dB
Return Loss Uniformity	0.4	0.7	dB
Polarization Dependent Loss	≤0.10	≤0.15	dB
Directivity	≥55		dB
Fiber Type	Corning SMF-28e or Customer specified		/
Operating Temperature	-40~+85		°C
Storage Temperature	-40~+85		°C
Cable Dia	250um Bare fiber or 0.9 Loose tube		mm
Package Dim	3mm x 60mm stainless steel tube		mm
<b>Double Window Splitter (1310/1550nm)</b>			
Split Ratio	Insertion loss (dB) P grade	Insertion loss (dB) A grade	Unit
50/50	≤3.5	≤3.7	dB
45/55	≤3.9/2.9	≤4.2/3.1	dB
40/60	≤4.7/2.7	≤5.0/2.9	dB
30/70	≤6.0/1.9	≤6.4/2.2	dB
20/80	≤7.9/1.2	≤8.5/1.4	dB
10/90	≤11.3/0.6	≤12.7/0.8	dB
5/95	≤15.0/0.4	≤16.0/0.5	dB
1/99	≤23.5/0.3	≤24.0/0.4	dB

Single Window Splitter			
Split Ratio	Insertion loss (dB) P grade	Insertion loss (dB) A grade	Unit
50/50	≤3.6	≤3.7	dB
45/55	≤3.8/2.8	≤4.0/3.0	dB
40/60	≤4.4/2.5	≤4.8/2.8	dB
30/70	≤5.6/1.8	≤6.1/2.0	dB
20/80	≤7.6/1.2	≤8.0/1.3	dB
10/90	≤10.8/0.6	≤12.0/0.8	dB
5/95	≤14.0/0.4	≤14.5/0.5	dB
1/99	≤21.0/0.2	≤21.5/0.3	dB

**Notes:**

1. All values specified are without connectors.
2. IL will increase 0.2dB when add one connector.
3. Customized service is available.

**6. Package Dimensions(Ø3x60mm)**

