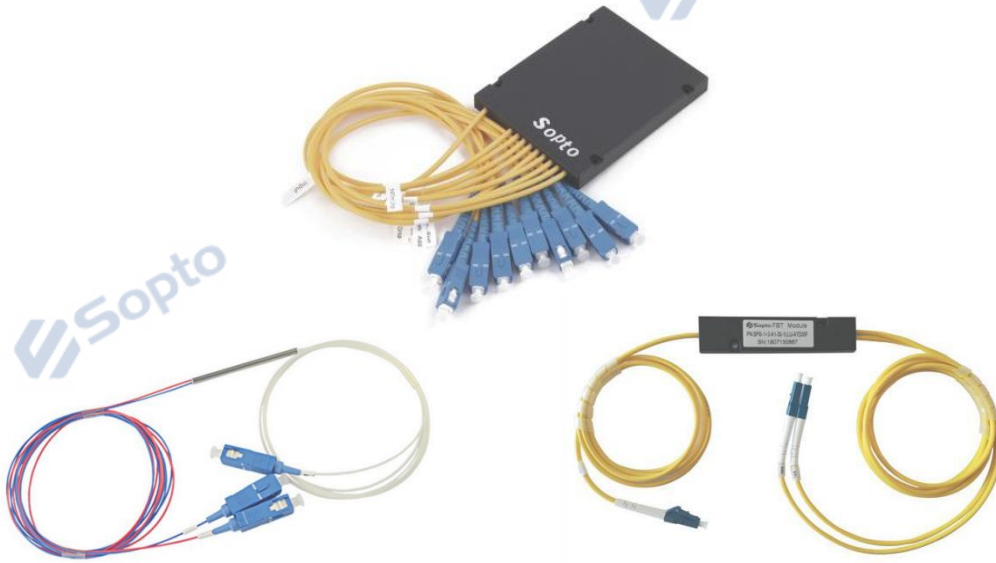


FBT Splitter



Description

Fused Biconical Taper is to tie together with two or more optical fibers, and then fused stretching in the biconical tapering machine, and monitoring the real-time change of splitting ratio, after splitting ratio meet requirements, fused stretching is overed, one side retain a single fiber (the rest is cuted) as input port, another side is regarded as multi-channel output port.

In some applications that are not very sensitive to volume and light wavelength, especially in the case of one minute two (less branching), FBT splitter is more affordable.

Features

- Low Insertion loss
- Wide Operating Wavelength
- Compact Size
- Excellent Environmental & Mechanical Stability

Application

- FTTX Systems
- LAN, WAN and Metro Networks
- Analog/Digital Passive Optical Networks
- CATV Networks
- Subscriber Loop
- Fiber optic Instruments

- Fiber Sensors

Specifications

Single mode Standard Coupler	
Coupling Ratio(%)	50/50
Directivity (dB)	≥55
Operating Temperature (°C)	-20 - +70
Storage Temperature (°C)	-40 - +85
Fiber Type	SMF-28e+LL Fiber
Fiber Pigtail Length (m)	1
Port Configuration	1x2 or 2x2
Package Dimension	Package 3.0x54mm

Single mode Standard Coupler	
Grade	Premium
Coupling Ratio (%)	50/50
Excess Loss (Typical)(dB)	0.1
Maximum Insertion loss (dB)	3.4
Polarization Sensitivity (dB)	0.1
Operating Wavelength (nm)	850, 980, 1310, 1480, 1550, 1585, or custom wavelength
Single mode Wideband Coupler	
Grade	Premium
Coupling Ratio (%)	50/50
Excess Loss (Typical)(dB)	0.1
Maximum Insertion loss (dB)	3.4
Polarization Sensitivity (dB)	0.1
Operating Wavelength (nm)	1310±40, 1550±40, 1585 ±40, or custom wavelength

Coupling Ratio/Insertion Loss Conversion Chart

Coupling Ratio	Insertion Loss
Grade	Premium
40/60	4.4/2.5
30/70	5.6/1.8
20/80	7.4/1.1
10/90	10.8/0.6
5/95	14.6/0.4
2/98	19.0/0.2
1/99	21.0/0.2
Single mode Dual Window Wideband Coupler	
Grade	Premium
Coupling Ratio (%)	50/50
Excess Loss (Typical)(dB)	0.1
Maximum Insertion loss (dB)	3.6
Uniformity (Max.) (dB)	0.7
Polarization Sensitivity (dB)	0.10
Operating Wavelength (nm)	1310 /1550 \pm 40, 1310 /1585 \pm 40, or custom wavelength

Coupling Ratio/Insertion Loss Conversion Chart

Coupling Ratio	Insertion Loss
Grade	Premium
40/60	4.7/2.7
30/70	6.0/1.9
20/80	7.9/1.2
10/90	11.3/0.5
5/95	15.2/0.4
1/99	22.5/0.3

- Note: 1. All parameters are for device without connectors.
 2. Special specifications can be customized according to customer requirements.

Ordering information

Part Number: SPS-<u>1</u>×<u>2</u>-<u>A1</u>-<u>30</u>-<u>1</u>LLU- <u>A</u>7D<u>35</u>F 1 2 3 4 5 6 7 8 9 10 11	
Product Description: SPS-1×2-A1-30-1LLU-A7D35F Splitter FBT Type ABS mini box 1×2 30/70 Splitting ratio Dual Windows 1310nm/1550nm G.657.A1 3.0mm Diameter 1M Fiber Length with Loose Tube Input LC/UPC Output LC/UPC	
1 - Port Type	1×2 1×3 1×4 2×2 3×3
2 - Fiber Type	C: SMF-28e+LL Fiber
3 - Diameter	25: 250μm bare fiber; 09: 0.9mm loose tube; 20: 2.0mm cable; 30: 3.0mm cable;
4 - Length	05: 0.5M; 1: 1M; 1.5: 1.5M etc
5 - Input Connector	【Null】 :No Input Connector; L: LC; S:SC; F:FC
6 - Output Connector	【Null】 :No Output Connector; L: LC; S:SC; F:FC
7 - Connector Endface	U: UPC; A: APC; P: PC
8 - Package	B: Steel Tube; A: ABS minibox(90*20*10); A: ABS ibox(100*80*10);
9 - Splitting ratio	1: 1/99 2: 5/95 3: 10/90 4: 15/85 5: 20/80 6: 25/75 7: 30/70 8: 35/65 9: 40/60 10: 45/55 11: 50/50
10 - Windows	S: Single Window D: Dual Windows T: Triple Windows
11 - Wavelength	3: 1310nm 4: 1490nm 5: 1550nm 34: 1310nm/1490nm 35: 1310nm/1550nm 45: 1490nm/1550nm 345: 1310nm/1490nm/1550nm