



Product Description

Fused Biconical Taper (FBT) optical splitters is where the optical splitting of the signal is achieved by fusing two fibres into one or four fibres into one under high temperatures. A very precise and high tech production will allow the splitting of the signal to be equal ratios (50%-50% or 25% x 4 etc) or uneven so it could be 30%-70% and so on.

FBT splitters with a high split ratio can work only within the frequency bands of 1310 ± 40 nm, 1490 ± 10 nm, and 1550 ± 40 nm. The insertion loss of other frequency bands is too high.

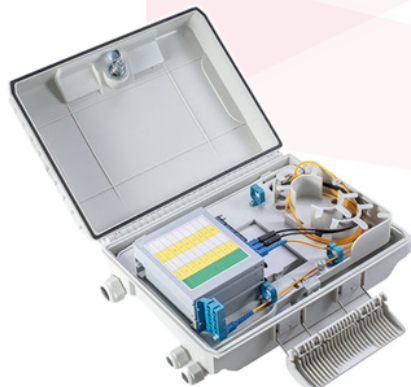
Features & Benefits

- Easy to produce/Low production cost
- Customisable splitter ratios
- Works on three different operating bands 850nm, 1310nm and 1550nm
- IEC Standard 60529
- Loose ends or with connectors
- Suitable for splicing or patching
- SC, LC, ST, FC and others
- Available in all fibre types
- Available in LGX, boxes, panels styles
- RoHS compliant materials

Applications

- Telecommunication
- Data centres
- Patch panels
- Wall boxes
- ODFs and enclosures
- FTTH (Fibre to the Home)





Technical Specifications

	1x2	1x4	2x2	2x4
Operating wavelength range (nm)	1260 ~ 1360; 1450 ~ 1640		1260 ~ 1360; 1450 ~ 1640	
Insertion Loss (dB) without TDL	Typical 3.7 Max ^{*1} 4.0	Typical 7.3 Max ^{*1} 8.0	Typical 3.7 Max ^{*1} 4.0	Typical 7.3 Max ^{*1} 8.0
Insertion Loss (dB) with TDL	Typical 4.0 Max ^{*2} 4.6	Typical 7.8 Max ^{*2} 8.4	Typical 4.0 Max ^{*2} 4.6	Typical 7.8 Max ^{*2} 8.4
PDL (dB) Max	0.2	0.3	0.2	0.3
Uniformity (dB) Max	0.8	1.7	0.8	1.7
PMD (ps) Max	0.1		0.1	
Return Loss (dB) Min	55		55	
Directivity (dB) Min	55		55	
Operating Temperature (°C)	-30 to +70		-30 to +70	
Storage Temperature (°C)	-30 to +70		-30 to +70	
Dimensions (mm) LxWxH	90x14x8.5		90x14x8.5	
WDL (dB) Max	0.7	1.2	0.7	1.2
Fibre Type	G652D			
Jumper Length (m)	1.0m with 2mm LSZH jacket			
Connector Type	SC/APC			

^{*1}Including PDL, WDL ^{*2}Including PDL, WDL and TDL (This maximum insertion loss is valid at end-of-life of the component)

Ordering Information

Use combinations of **bold** letters and numbers to create part numbers for ordering.

Splitter Type		Connector Type		Fibre Type	
B/PLCS	Standard PLC	ST	ST	A1	G657A1
B/FBTS	Standard FBT	SC	SC	A2	G657A2
B/PLCPP	PLC in Patch Panel	MU	MU	B3	G657B3
B/FBTLGX	FBT in LGX module	LC	LC	S2	OS2
B/PLCABS	ABS PLC	FC	FC	M1	OM1
		E2	E2000	M2	OM2
				M3	OM3
				M4	OM4
				M5	OM5
▲		▲		▲	
B/FBTS	1X32	ST	A	S2	
▼		▼			
1 in x 8 out	1X8	Angled	A		
1 in x 16 out	1X16	Uncoated	U		
1 in x 32 out	1X32				
1 in x 64 out	1X64				
Fibre Count		Coating			

Example Part Number	
Description	Part Number
BCP Fibre Optic FBT 1x32 ST A OS2 Optical Splitter	B/FBTS1X32STAS2

