



Product Overview

TTECH adopts the FBT technique to produce the SM splitter/coupler with the high performance and liability. The extremely low excess loss greatly increases the coupler's liability and long-term stability. Unused port is terminated to reduce back reflection. 1×2 splitters are used to split light with minimal loss from one into two fibers or to merge light from two fibers into one. TTECH tree and star splitter/coupler also available.

Characteristic

- ▣ Low polarization dependent loss (PDL)
- ▣ Low excess loss
- ▣ Good directivity
- ▣ Good environmental stability
- ▣ Various splitting/coupling ratio

Application

- ▣ Optical fiber communication systems
- ▣ Optical Fiber CATV
- ▣ Passive Optical Network (PON)
- ▣ Optical amplifiers
- ▣ Optical Access Networks/LAN
- ▣ Monitoring systems
- ▣ Optical fiber sensor
- ▣ Splitter/coupler compact box available

Specifications

Parameter	Grade A			
Operation Wavelength	1310nm or 1550nm, others on request			
Bandwidth	±20nm		±40m	
Excess Loss	≤0.15dB(0.05dB typical)			
Coupling Ratio	50/50	40/60	30/70	20/80
Type Insertion Loss(dB)	3.05	4.2/2.4	5.4/1.8	7.2/1.1
Max. Insertion Loss(dB)	3.4	4.2/2.5	5.6/1.8	7.4/1.1
Polarization Dependent Loss(dB)	≤0.15			
Thermal Stability	≤0.1 dB over -40°C~+85°C			
Directivity	1×2	≤55 dB		
	2×2	≤60dB		
Fiber Length	1meter or others on request			
Operating Temperature	-40°C~+85°C		-20°C~+70°C	