

# Single Mode Broadband Fiber Coupler

Single mode broadband fiber couplers are designed for splitting light with minimal loss from one into two fibers or to combine light from two fibers into one fiber. Accelink offers both single-window and dual-window broadband couplers.

The products are Telcordia GR-1209-CORE qualified, and RoHS compliant.



## Applications

- Telecommunications
- CATV network
- Access network
- Optical amplifier

## Features

- Wide bandwidth
- Low excess Loss

## Specifications

Insertion Loss Table

Parameter	Unit	Value		C or L		1310±40		1310±40&1550±40			
		C or L	1310±40	1310±40&1550±40	Splitter Ratio	Tap	Signal	Tap	Signal	Tap	Signal
Wavelength	nm		1310±40	1310±40&1550±40							
Splitter Ratio			1/99~50/50		1/99	19.0~21.0	≤ 0.20	18.2~21.0	≤ 0.20	18.0~22.0	≤ 0.25
Fiber Type			SMF-28		3/97	14.6~16.2	≤ 0.30	14.4~16.4	≤ 0.30	14.0~16.6	≤ 0.35
Return Loss	dB		>50		5/95	12.4~13.8	≤ 0.35	12.4~14.0	≤ 0.35	11.8~14.5	≤ 0.45
Directivity	dB		>55		10/90	9.60~10.8	≤ 0.60	9.40~11.0	≤ 0.60	9.60~11.3	≤ 0.60
PDL	dB	<0.1		<0.15	20/80	6.60~7.60	≤ 1.15	6.30~7.80	≤ 1.15	6.50~7.80	≤ 1.20
Operation Temperature	°C		-10 ~ +70		30/70	5.00~5.50	≤ 1.75	4.60~5.75	≤ 1.75	4.70~6.50	≤ 1.90
Storage Temperature	°C		-40 ~ +85		40/60	3.95~4.30	≤ 2.50	3.85~4.40	≤ 2.50	3.60~4.70	≤ 2.70
					50/50	2.80~3.30		2.70~3.40		2.70~3.50	

Notes :All insertion loss don't include connector loss.

## Package and Installation Dimension

	A <sup>1</sup>	B <sup>2</sup>	C1	C2	D	E
Package(mm)	Φ3×48	Φ3×55	100×18×9.2	90×16×9	100×80×7.2	130×90×15
Installation(mm)			65×12×4Φ2.4	50×9×2Φ3.2	60×76.2×4Φ3	124×84×4Φ3.5
Box material	SST Tube	SST Tube	Plastics	Metal	Plastics	Metal

Notes: 1. Type A is only for 0.25mm fiber. 2.Type B is for 0.9mm fiber.

## Ordering Information

Port	Wavelength	Splitter Ratio	Fiber Dia.	Fiber Length	Connector	Package
12:1×2	1310: 1310nm	01: 1:99	025:Φ0.25mm	1:1.0m	FC,SC,LC,MU/UPC,APC	A , B ,
22:2×2	1550: 1550nm	02: 2:98	09:Φ0.9mm			C1 , C2 ,
	135: 1310/1550nm	⋮	20:Φ2.0mm			D , E
			30:Φ3.0mm			
		50: 50:50				