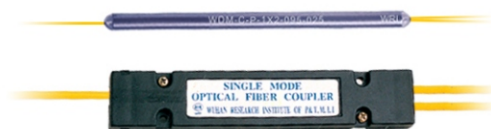


Single Mode Broadband Fiber Coupler

ACCELINK TECHNOLOGIES CO.,LTD.



Single mode broadband fiber couplers are used to split 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. They are designed and manufactured to meet the Bellcore GR-1209-CORE requirements.

Features

- Wide Bandwidth
- Low Excess Loss
- Excellent Performance
- High Stability and Reliability

Applications

- Telecommunications
- CATV Network
- Access Network
- Optical Amplifier

Specifications

Parameter	Unit	Value		
Operating wavelength	nm	C or L	1310 ±40	1310 ±40 & 1550 ±40
Split ratio		1/99~50/50	1/99~50/50	1/99~50/50
Fiber type		SMF-28e		
Return loss	dB	>50		
Directivity	dB	>55		
PDL	dB	<0.10	<0.10	<0.15
TDL	dB	<0.1		
Operation temperature	°C	-10~+70		
Storage temperature	°C	-40~+85		

Insertion Loss

Split Ratio	C or L		1310 ±40		1310 ±40 & 1550 ±40	
	Tap	Signal	Tap	Signal	Tap	Signal
1/99	19.0~21.0	≤0.20	18.2~21.0	≤0.20	18.0~22.0	≤0.25
3/97	14.6~16.2	≤0.30	14.4~16.4	≤0.30	14.0~16.6	≤0.35
5/95	12.4~13.8	≤0.35	12.2~14.0	≤0.35	11.8~14.5	≤0.45
10/90	9.60~10.8	≤0.60	9.40~11.0	≤0.60	9.60~11.3	≤0.60
20/80	6.60~7.60	≤1.15	6.30~7.80	≤1.15	6.50~7.80	≤1.20
30/70	5.00~5.50	≤1.75	4.60~5.75	≤1.75	4.70~6.50	≤1.90
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		2.80~3.30	

Note: All insertion loss referenced without connector loss, PDL and TDL.

Package and Installation Dimension

	A	B	C1	C2	D	E
Package(mm)	Φ3×52 ¹	Φ3.5×65 ²	100×18×9.2	90×16×9	112×80×10.6	130×90×15
Installation(mm)			65×12×4Φ2.4	50×9×2Φ3.2	102×72×4Φ3.2	124×84×4Φ3.5
Box material	SST Tube	SST Tube	Plastics	Metal	Plastics	Metal

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

Ordering information

WBC						
12:1×2 22:2×2	131:1310nm 155:1550nm 135:1310 & 1550nm 159:L Band	01: 1:99 02: 2:98 50: 50:50	00:adapter (only for package E) 025: Φ0.25mm 09: Φ0.9mm 30: Φ3mm	00:adapter (only for package E) 1:1.0m customer specify	00:no connector FC/PC,FC/APC, SC/PC,SC/APC, LC/PC,MU/PC, customer specify	Selected from the dimension table A, B,.....
Port	Wavelength	Couple ratio	Fiber Dia.	Fiber length	Connector	Package