

## Special Wavelength Coupler



### Product Introduction

Besides 1310nm and 1550nm fiber couplers, Accelink manufactures special couplers working at wavelength of 1480nm, 980nm, 1590nm, etc. These couplers use special single mode fiber, and the coupling ratio can be made on customer request. The products are Telcordia GR-1221-CORE qualified, and RoHS compliant.

### Features

- Low excess loss
- Coupling ratio on customer request
- Accurate split ratio

### Applications

- Optical instruments
- EDFA

### Standards

- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE

### Specifications

Parameter	Unit	Value	
Wavelength	nm	980 ± 10	1480 or 1590 ± 40
Splitter Ratio		1/99 ~ 50/50	
Fiber Type		OFS 980-16	SMF-28e+
Return Loss	dB	> 50	
Directivity	dB	> 55	
PDL	dB	< 0.1	
Operation Temperature	°C	-10 ~ +70	
Storage Temperature	°C	-40 ~ +85	

Splitter Ratio	Max IL (Tap)	Max IL (Signal)
1/99	21.0	0.25
2/98	17.9	0.30
3/97	16.0	0.35
5/95	14.0	0.45
10/90	10.9	0.7
15/85	9.0	1.1
20/80	7.7	1.3
25/75	6.7	1.7
30/70	5.8	2.0
33/67	5.4	2.1
35/65	5.2	2.3
40/60	4.6	2.7
45/55	4.0	3.1
50/50	3.5	3.5

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

Package and Installation Dimension

	A	B	D	F	E(Adapter)
Package (mm)	φ3×48	φ3×55mm	100×80×7.2	100×80×10	130×90×15
Installation (mm)	SST Tube	SST Tube	60×76.2×4φ3.0	94×74×4φ3.5	124×84×4φ3.5

	C	G	J	M
Package (mm)	90×16×9	130×90×14	133.5×96×18	150×110×19
Installation (mm)	49.9×9.3×2φ3.0	60×87×4φ3.0	128.5×90×4φ3.0	145×105×4φ3.5

	LGX		11	12
Package (mm)	129×158×28 (1U)	129×158×58 (2U)	482×230×44	482×202×88

Ordering Information

WBC-□-□-□-□-□-□-□

- Package: A,B,C,D,E...
- Connector: FC,SC,LC,MU/PC,UPC,APC
- Fiber Length: 00:adapter; 1:1m; customer specify
- Fiber Dia.: 00:adapter; 025:Φ0.25mm; 09:Φ0.9mm; 20:Φ2.0mm;  
30:Φ3.0mm
- Splitting Ratio: 01:1/99; 02:2/98.....50:50/50
- Wavelength: 980:980nm; 1480:1480nm; 1590:1590nm
- Port: 12: 1×2; 22:2×2;

