

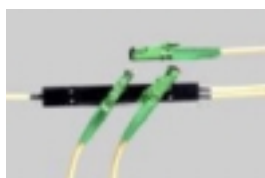
# Optical Coupler

## Plank Multi-mode 1x2 and 2x2 Coupler

**Plank Optoelectronics Inc.** is a professional developer and manufacturer of fiber optical communication components that deploy high-capacity broadband communications networking with advances in Fiber Optics technologies.

### Features

- Low Insertion loss
- Variety of fiber types
- Variety of coupling ratios
- Environmentally stable and reliable



### Applications

- Test equipment
- Video Networks
- Local Area Networks(LAN)
- Optical fiber sensors



### Specifications

#### 1x2, 2x2, Multi mode, Standard Coupler

Parameters	A Grade	B Grade
Operating Wavelength(nm)	850 & 1310	
Excess loss (dB)	0.7	1.0
Uniformity (dB)	≤ 0.8	≤ 1.0
Coupling Ratio (%)	1 : 99 to 50 : 50	
Polarization Stability (dB)	0.10	0.15
Directivity (dB)	>35	
Operation temp.(°C)	-40 to +70	
Storage temp.(°C)	-50 to +85	
Temp. Coefficient (dB/°C)	<0.002( Max.)	
Dimensions (mm)	Bare fiber: 3.0 (Φ) x 54 ( L ) Loose tube: 3.5(Φ) x 65 ( L ) PVC: 95(L) x 12(W) x 10(H)	

#### Coupling Ratio / Insertion Loss Reference Table

Desired Splitting Ratio	A Grade	B Grade
50 : 50	3.9	4.3
40 : 60	4.9/3.0	5.4/3.5
30 : 70	6.2/2.3	6.7/2.7
20 : 80	8.0/1.6	8.7/2.1
10 : 90	11.3/1.1	12.2/1.6
5 : 95	14.9/0.9	16.2/1.3
1 : 99	22.1/0.7	22.7/1.0

\*\* The specifications listed above do not include the effect of connector loss.

\*\* Connector Type: SC,FC,ST,SC/APC,FC/APC,LC,MU are available.

\*\* Specification values for devices with unbalanced split ratios are available upon request.