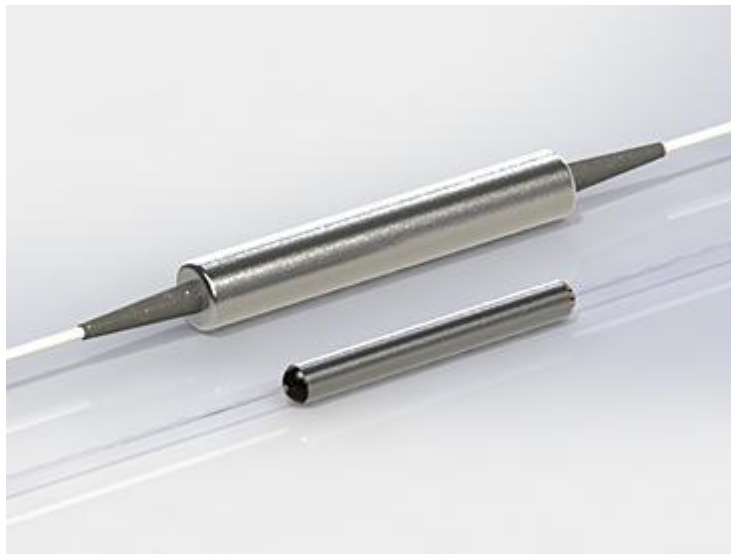


## 2um Fiber Optic Coupler 1x2



### ● Product Description

The FBC series fiber optic couplers are based on Agiltron's fusion double-cone taper technology and compact packaging structure. They feature excellent uniformity, low excess loss, and extremely low polarization sensitivity. This device is ideal for splitting or combining light with outstanding performance across a wide wavelength range.

## ● Product features

Ultra-low loss 、 Low polarization sensitivity 、 High reliability and stability 、 Ultra-low cost 、 No impact on wavelength

## ● Part Number

MP-FBC-2000-A-1-50/50-SA

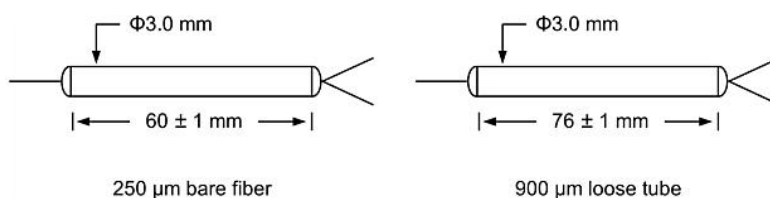
## ● Application area

Optical communication 、 Cable television 、 Local area networks (LAN) 、 Fiber optic instruments

## ● Core parameters

| Center Wavelength | Splitting Ratio | Port Structure |
|-------------------|-----------------|----------------|
| 2000nm            | 50/50           | 1x2            |

## ● Dimension Drawing



## ● General Parameters

### Parameters

| FC Series                   | Parameter                                          |          | Unit |
|-----------------------------|----------------------------------------------------|----------|------|
| Coupling Ratio              | 1/99 to 50/50                                      |          |      |
| Bandwidth                   | $\pm 20$                                           |          | nm   |
| Additional Loss             | <0.1                                               |          | dB   |
| Insertion Loss              | Output 1                                           | Output 2 |      |
| Split Ratio: 50/50          | <3.6                                               | <3.6     | dB   |
| Split Ratio: 40/60          | <4.8                                               | <2.8     | dB   |
| Split Ratio: 30/70          | <6.1                                               | <2.0     | dB   |
| Split Ratio: 20/80          | <8.0                                               | <1.3     | dB   |
| Split Ratio: 10/90          | <12.0                                              | <0.8     | dB   |
| Split Ratio: 5/95           | <18.4                                              | <0.5     | dB   |
| Split Ratio: 1/99           | <22                                                | <0.3     | dB   |
| Consistency (50:50)         | <1                                                 |          | dB   |
| Polarization Dependent Loss | <0.15                                              |          | dB   |
| Directionality              | >55                                                |          | dB   |
| Return Loss                 | >55                                                |          | dB   |
| Maximum Operating Power     | <5                                                 |          | W    |
| Operating Temperature       | -40~75                                             |          | °C   |
| Storage Temperature         | -40~85                                             |          | °C   |
| Dimensions                  | 250um:( $\phi$ )3x(L)60<br>900um:( $\phi$ )3x(L)77 |          | mm   |

### Ordering Info

| Coupling ratio | Port | Fiber Type | Fiber Jacket | Fiber Length | Connector |
|----------------|------|------------|--------------|--------------|-----------|
| 1/99           | 1x2  | SM1950     | 250um        | 0.5m         | None      |
| 5/95           |      |            |              |              | FC/APC    |
| 10/90          |      |            |              |              | FC/PC     |
| 20/80          |      |            |              |              | LC        |
| 30/70          | 2x2  | PM1950     | 900um        | 1m           | SC/APC    |
| 40/60          |      |            |              |              | SC/FC     |
| 50/50          |      |            |              |              | ST/PC     |
| Special        |      |            |              |              | Special   |