

# 50:50 470nm 1x2 SM Fiber Optic Coupler



## ● Product Description

The VIS-FC-W0633 VISIBLE series single-mode fiber optic coupler is developed and produced based on our single-mode fiber fusion splice machine IPCS-5000-SMT. It is designed for light splitting in the visible wavelength range with excellent performance. We can offer couplers with central wavelengths of 405nm, 488nm, 532nm, 633nm, and 650nm, with a narrow bandwidth of  $\pm 20\text{nm}$ . Our couplers have a maximum power rating of 500mW when used with connectors or bare fiber. We offer various coupling ratios such as 50:50, 75:25, 90:10, or 99:1 for customer selection. Our 2x2 couplers, based on the fusion splicing process, are bidirectional, meaning any port can be used as the input.

## ● Part Number

VIS-FC-W0470-S12-CR5050-1-9-SA

## ● Product features

Fusion fiber optic coupler, used for 405nm, 488nm, 532nm, 633nm 、

Coupling ratios: 50:50, 75:25, 90:10, or 99:1 、 Bidirectional coupling (either

end can be used as the input) 、 2.0mm narrow-key FC/PC or FC/APC connectors 、 Each broadband coupler is accompanied by its own test report

## ● Application area

Visible light communication 、 Power monitoring 、 Optical power splitting 、 Testing instruments

## Parameters

Technical Parameters

VIS-FC-650 Parameters	
Spectral	
Central Wavelength	650 nm
Bandwidth	±20 nm
Insertion Loss	<3 .7 dB
Return Loss	> 55dB
Fiber Type	630-HP/S M600
Operating Power	500mw
Connector	FC/APC or FC/PC
Operating Temperature	-10 -+70 °C
Storage Temperature	-45 -+85 °C
PDL	≤ 0 . 15 dB
Uniformity	≤ 1 .0 dB
Dimension Information	
Package Size	3 .0mm ( Φ ) x 60 .0mm (L)
Pigtail Length	1m
Rechargeable	No

Note:

1. All test results do not include connectors.
2. Better parameters or other requirements can be customized.

Single-point data testing 1X2, 50:50 (633nm, 5mW single-mode fiber optic coupler laser testing as an example)

**VIS-FC- W0633-633nm black port**

**VIS-FC- W0633-633nm white port**


### Ordering Info

VIS-FC-W□□□□-S○-CR▽-☆-△-XX

W□□□□: Wavelength

0405: 405nm

0488: 488nm

0532: 532nm

0633: 633nm

0650: 650nm

S○: Port Structure

12: 1x2

22: 2x2

13: 1x3

33: 3x3

CR▽: Coupling Ratio

0199: 1:99

1090: 10:90

5050: 50:50

☆: Pigtail Length

05: 0.5m

1: 1m

10: 10m

△: Loose Tube

B: Bare Fiber

9: 900um Loose Tube

20: 2mm Loose Tube

30: 2mm Loose Tube

XX: Fiber and Connector Type

SA = SMF-28E + FC/APC

SP = SMF-28E + FC/PC

PA = PMFiber + FC/APC

PP = PMFiber + FC/PC