

# Single-Mode Visible Light Fiber Coupler (Fused Fiber Optic Splitter)



## FEATURES

- ✓ Low Insertion Loss
- ✓ Low PDL
- ✓ High Reliability and Stability

## APPLICATIONS

- Optical Communication System
- Fiber Sensor
- Optical Power Distributor
- Fiber Amplifier

## Single-Mode Visible Light Fiber Coupler (Fused Fiber Optic Splitter) Specifications

Port Configuration	1x2, or 2x2
Center Wavelength (nm)	400~700nm (Optional), Typical Visible Light of 405 nm, 430 nm, 450 nm, 457 nm, 460 nm, 473 nm, 488 nm, 532 nm, 630 nm, 633 nm, 635 nm, 650 nm; Others on Request
Bandwidth (nm)	± 10
Grade	P
Insertion Loss (dB)	≤3.8 (50/50)
Uniformity (dB)	≤1.0
PDL (dB)	≤0.15
Fiber Type	Single-mode Fiber
Working Temperature (°C)	-40 ~ +85
<b>Splitting Ratio</b>	
50/50	≤3.8
60/40	≤3.0/5.0
70/30	≤2.2/6.6
80/20	≤1.4/8.4
90/10	≤0.9/13.0
95/5	≤0.6/19.6
98/2	≤0.4/23.0
99/1	≤0.4/24.0
<b>Package (mm)</b>	
250µm Bare Fiber	Steel Tube, Φ3.0 × 54
900µm Loose Tube	Steel Tube, Φ3.0 × 70 or Φ3.0 × 54
2 mm or 3 mm Cable	Custom-sized ABS Box

Notes:

1. This single-mode visible light fiber coupler (singlemode fused fiber optic splitter) is optional for the visible spectrum from 400 to 700 nm, covering typically visible wavelengths of 650 nm, 635 nm, 633 nm, 630 nm, 532 nm, 488 nm, 473 nm, 460 nm, 457 nm, 450 nm, 430 nm, 405 nm, etc. Other operating wavelengths are available on request.
2. Above data are test results without connectors. The insertion loss of one pair of connector is less than 0.3 dB.
3. The single-mode visible light fiber coupler is customizable and above specifications are subject to change without notice.
4. To customize special single-mode visible light fiber coupler, please contact our sales representative.

### Ordering Information

	Port	Split Ratio	Wavelength	Fiber Type	Pigtail	Package	Fiber Length	Connector	
<b>Single-Mode Visible Light Fiber Coupler</b>	1×2	50/50	405 nm	630-HP	250 μm	Φ3 × 70	0.5 m	None	
	2×2	60/40	430 nm	460-HP	900 μm	Φ3 × 54	1.0 m	LC/UPC	
		70/30	450 nm	405-HP	2 mm	Custom ...	Custom ...	LC/APC	
		80/20	457 nm	400-HP	3 mm			SC/UPC	
		90/10	460 nm	S405-XP				SC/APC	
		95/5	473 nm	SM450				FC/UPC	
		98/2	488 nm	SM600				FC/APC	
		99/1	532 nm	SM650				ST	
		Custom ...	630 nm	Custom ...					MU
			633 nm						Custom ...
			635 nm						
				650 nm					
			Custom ...						

