

## Optogenetics 1x2 2x2 MM Fiber Fused Coupler

Optogenetics 1x2 2x2 MM Fiber Fused Coupler is built with large fiber core multimode fiber and has a 400-2200nm wavelength range, it features low excess loss and flat wavelength response over the wide band wavelength, the input port terminated with FC or SMA 905 connector, the output port terminated with  $\Phi$ 1.25mm or  $\Phi$ 2.5mm ferrule. It's widely used in optogenetics application.

### Application:

optogenetics System  
Fiber Optic Sensor  
Testing System  
Lab & Research

### Features:

Low Excess Loss  
High Return Loss  
Low Insertion Loss  
High Reliability



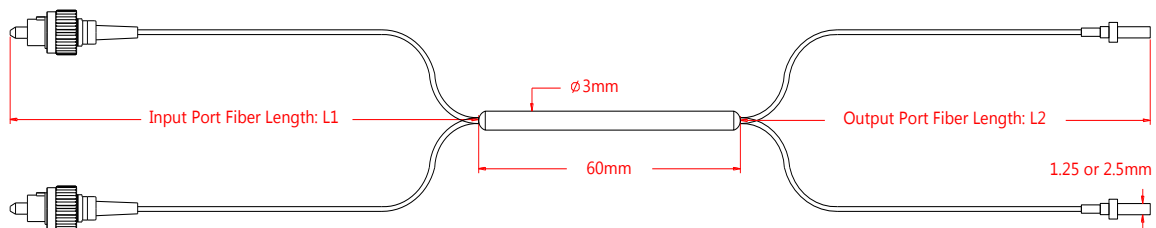
### Specification:

| Parameter                   | Symbol    | Value   | Unit         |
|-----------------------------|-----------|---|--------------|
| Center Wavelength           | $\lambda$ | 400-2200  | nm           |
| Coupling Ratio              |           | 50/50   | %            |
| Coupling Ratio Tolerance    |           | $\pm$ 5   | %            |
| Max. Excess Loss            | EL        | 0.6   | dB           |
| Max. Insertion Loss (50/50) | IL        | 4.1/4.1   | dB           |
| Min. Return Loss            | RL        | 40  | dB           |
| Fiber Type                  |           | 105/125 0.22NA, 200/230 0.37NA, 400/430 0.37NA MM fiber | -            |
| Max. Tensile Load           |           | 5   | N            |
| Max. Optical Power (CW)     | P         | 5   | W            |
| Operating Temperature       | T         | -40~75  | $^{\circ}$ C |
| Storage Temperature         | T         | -40~85  | $^{\circ}$ C |
| Package Dimension           |           | $\Phi$ 3.0xL60  | mm           |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}$ C.

For devices with connectors, IL will be 0.3dB higher. Connectors only 1W (Continue Wavelength) optical power guarantee.

### Drawing:



### Ordering Information (Part Number):

| OGC- <b>WWW</b> - <b>PP</b> - <b>RR</b> - <b>FFF</b> - <b>J</b> - <b>LL</b> - <b>LL</b> - <b>CC</b> - <b>CC</b> |           |                        |                      |                 |                 |                      |                   |
|---|-----------|------------------------|----------------------|-----------------|-----------------|----------------------|-------------------|
| <b>WWW</b>  | <b>PP</b> | <b>FFF</b>             | <b>J</b>             | <b>LL</b>       | <b>LL</b>       | <b>CC</b>            | <b>CC</b>         |
| Test Wavelength   | Port      | Fiber Type             | Fiber Jacket         | Fiber Length L1 | Fiber Length L2 | Input Port Connector | Output Ferrule    |
| 593 - 593nm   | 12 - 1x2  | 105 - 50/125 MM Fiber  | B - 250um Bare Fiber | 05 - 0.5m       | Z2 - 0.2m       | FC - FC/PC           | 1 - $\Phi$ 1.25mm |
| 650 - 650nm   | 22 - 2x2  | 200 - 200/230 MM Fiber | 9 - 900um Loose Tube | 10 - 1.0m       | Z3 - 0.3m       | SMA - SMA-905        | 2 - $\Phi$ 2.5mm  |
| 850 - 850nm   |           | 400 - 400/430 MM Fiber | 2 - 2.0mm Loose Tube | 15 - 1.5m       | Z5 - 0.5m       | SS - Specify         |                   |
| SSS - Specify   |           | SSS - Specify          |                      | 20 - 2.0m       | 10 - 1.0m       |                      |                   |
|   |           |                        |                      | SS - Specify    | SS - Specify    |                      |                   |