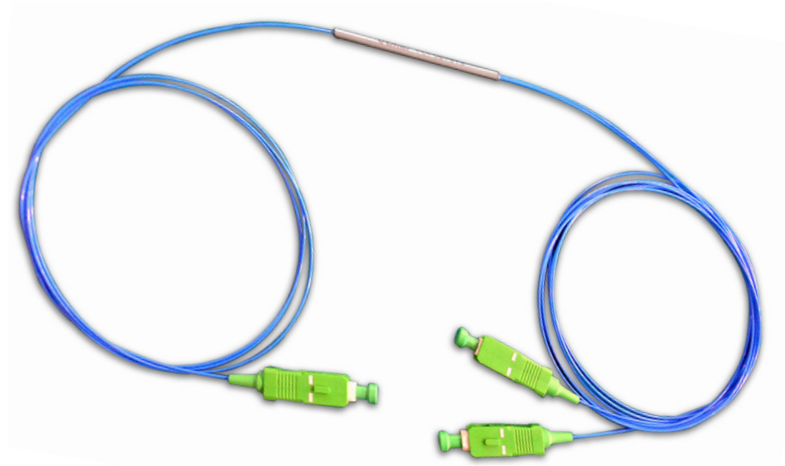


Features:

- All-Fiber Device
- Low Insertion Loss
- High Power Handling
- Any Coupling Ratio Available
- Visible Wavelength Operation
- No Unwanted Back Reflections

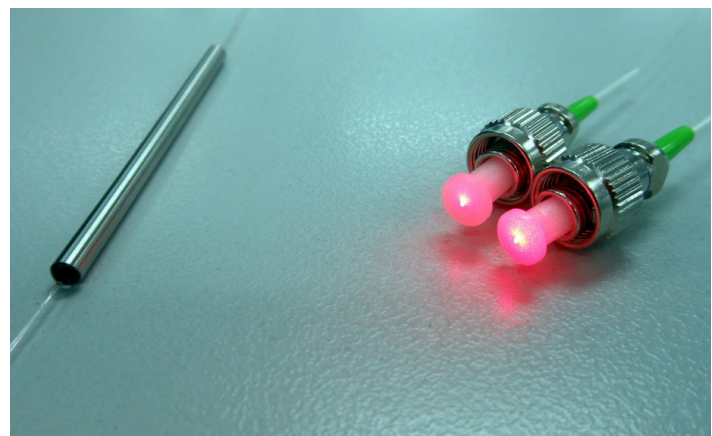
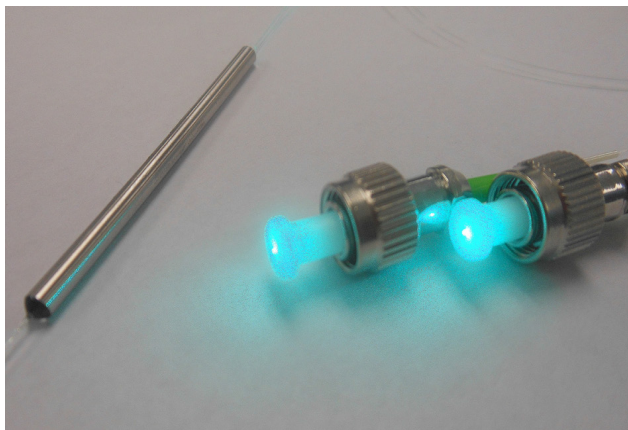


Applications:

- Fiber-optic Sensors
- Visible and Display Systems
- Biomedical System Applications

Description:

Go!Foton's Visible Wavelength Fused Coupler utilizes Fused Biconical Tapering Technology to create a composite waveguide structure capable of splitting or combining light in the visible region (400 to 700nm). This device is suitable for biomedical system applications like confocal and fluorescence microscopy, flow cytometry and others. Fiber ports can be made as input/output fiber pigtailed or connectorized which can be directly integrated into beam delivery systems.



Specifications:

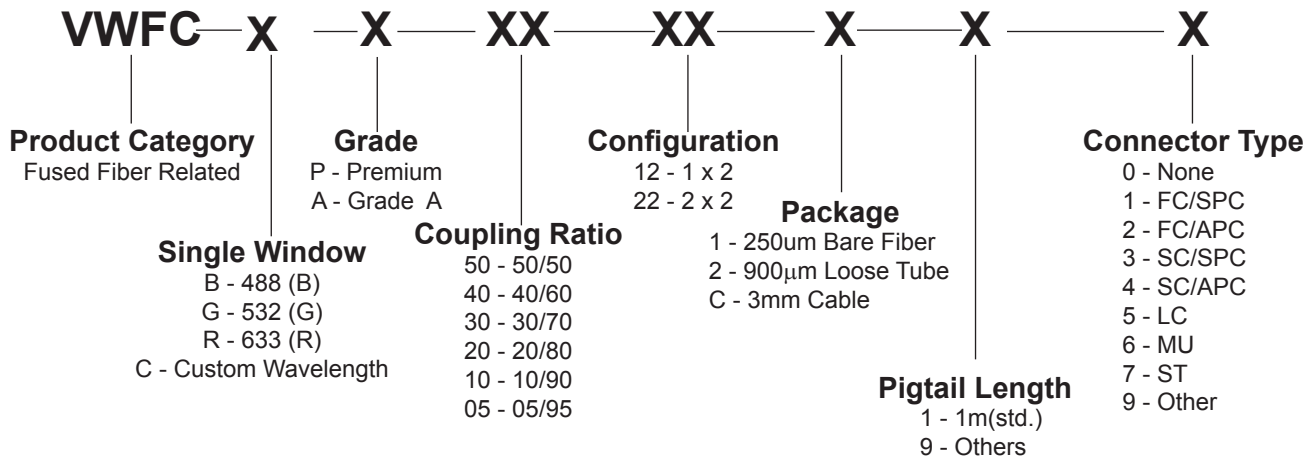
| Grade | Premium | Grade A |
|---|---|---------|
| Wavelength (nm) ¹ | 488, 532 or 633 | |
| Excess Loss (dB) ² | ≤ 0.3 | ≤ 0.5 |
| Coupling Ratio Tolerance (%) | | |
| 50% | ±5 | ±6 |
| 40% | ±4 | ±5 |
| 30% | ±4 | ±5 |
| 20% | ±3 | ±4 |
| 10% | ±3 | ±4 |
| 5% | ±2 | ±3 |
| 1% | ±2 | ±3 |
| Operating Temperature ³ (°C) | -40 to 85 | |
| Storage Temperature (°C) | -40 to 85 | |
| Package Dimension (mm) | 250µm Bare Fiber: (φ)3.0 x (L) 54 900µm Loose Tube: (φ)3.0 x (L) 65 3mm Cable: (L)80 x (W)12 x (H)7 | |
| Fiber Type | SM450, SM600 | |
| Power Handling (mW) | ≤ 500 | |

¹ Other wavelength available upon customer request

² Applicable for all coupling ratios

³ -20 to 70 °C for 900um loose tube and 3mm cable assembly packaging

Ordering Information:



Example: VWFC - G - P - 50 - 12 - 1 - 1 - 4

Visible Wavelength Fused Coupler, 532 nm (G), Premium Grade, with 50/50 Coupling Ratio, 1 x 2 Configuration, 250um Bare Fiber, 1m with SC/APC connectors on all port

