**Features:**
- Low Insertion Loss
- High Isolation
- High Directivity
- Low PDL
- Bi-directional
- Epoxy-Free Optical Path
- Exceptionally Stable and Reliable
- Telcordia GR-1221 Compliant

**Application:**
- Telecommunications
- Local Area Network
- CATV
- Metro Network
- Subscriber Loop

**Description:**
Go!Foton’s Fused WDM couplers are designed for multiplexing and demultiplexing two wavelengths. These versatile, mux and demux products are based on Go!Foton Fused Biconical Taper Fiber Technology. This proven technology produces highly quality 3-port devices with low PDL, low insertion loss and stable environment performance.

**Wavelength Spectrum:**
## Fused Wavelength Division Multiplexer Coupler

### Specifications:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Premium Grade A</th>
<th>Premium Grade A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength</td>
<td>nm</td>
<td>1310/1550</td>
<td>980/1550</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>nm</td>
<td>±20 ±15 ±10</td>
<td>±20 ±15 ±10</td>
</tr>
<tr>
<td>Insertion Loss¹</td>
<td>dB</td>
<td>0.5 0.3 0.25</td>
<td>0.6 0.4 0.3</td>
</tr>
<tr>
<td>Isolation</td>
<td>dB</td>
<td>16 17 20</td>
<td>15 16 17</td>
</tr>
<tr>
<td>Polarization Dependent Loss</td>
<td>dB</td>
<td>0.10 0.15</td>
<td>0.20 0.25</td>
</tr>
<tr>
<td>Temperature Dependent Loss</td>
<td>dB</td>
<td>0.15 0.20</td>
<td>0.20 0.25</td>
</tr>
<tr>
<td>Directivity</td>
<td>dB</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td>Return Loss</td>
<td>dB</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Power Handling Capacity</td>
<td>mW</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>°C</td>
<td>-40 to 85</td>
<td>-40 to 85</td>
</tr>
<tr>
<td>Fiber Type</td>
<td></td>
<td>Corning SMF 28e or equivalent OFS BF05635 Fiber</td>
<td></td>
</tr>
<tr>
<td>Package Dimension</td>
<td>mm</td>
<td>φ3.0x54 for 250um Bare Fiber</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>φ3.0x65 for 900um Loose Tube</td>
<td></td>
</tr>
</tbody>
</table>

Notes: 1. Values are reference without connectors.
Fused Wavelength Division Multiplexer Coupler

Ordering Information:

<table>
<thead>
<tr>
<th>F</th>
<th>W</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Product Category**: FWC– Fused WDM Coupler
- **Product Series**: 3 Numeric Series
- **Customer Code**: 4 Letters Series
- **Connectors**: 3
  - 0 – None
  - 1 – FC/UPC
  - 2 – FC/APC
  - 3 – SC/UPC
  - 4 – SC/APC
  - 5 – LC/UPC
  - 6 – MU/PC
  - 7 – LC/APC
  - X – Special or as specified by customer
- **Fiber Length**: 2
  - 1 – 1 meter
  - 2 – 2 meters
  - 3 – 3 meters
  - X – Special or Specified by customer
- **Package Type**: 4
  - 1 – 250um Single Mode Fiber
  - 2 – 900um Loose Tube White (250um Single Mode Fiber)
  - X – Special or Specified by customer
- **Configuration**: 1
  - 1 – 1x2
  - 2 – 2x2
- **Grade Type**: 2
  - P – Premium
  - A – Grade A
- **Operating Wavelength**: 2
  - 1 – 1310nm/1550nm
  - 2 – 980nm/1550nm

Notes:
1. See Package Dimension in Table above specification for Package Standard.
2. The mechanical fiber length tolerance is ±0.1 meters.
3. All ports are with connector of same type.
4. Only applicable for products which is not cover by standard specifications.

Example: FWC1P222
- Fused WDM Coupler, 1310/1550nm, Premium Grade, 1x2 configuration with 900um Loose Tube, 2 meters with FC/APC all ports