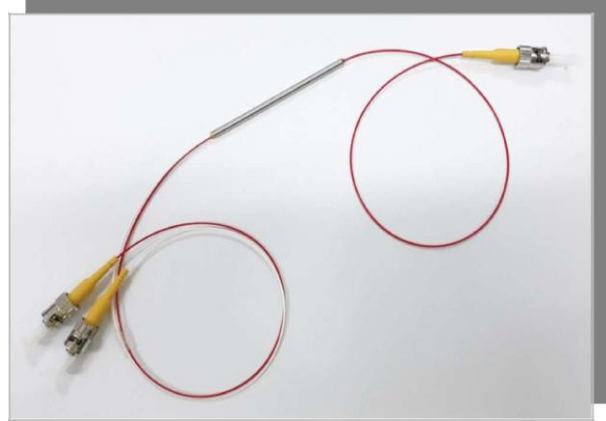


Features:

- Telcordia GR-1221 Compliant
- Low Insertion Loss
- Low PDL
- Low Excess Loss
- Wide Operating Temperature Range

Application:

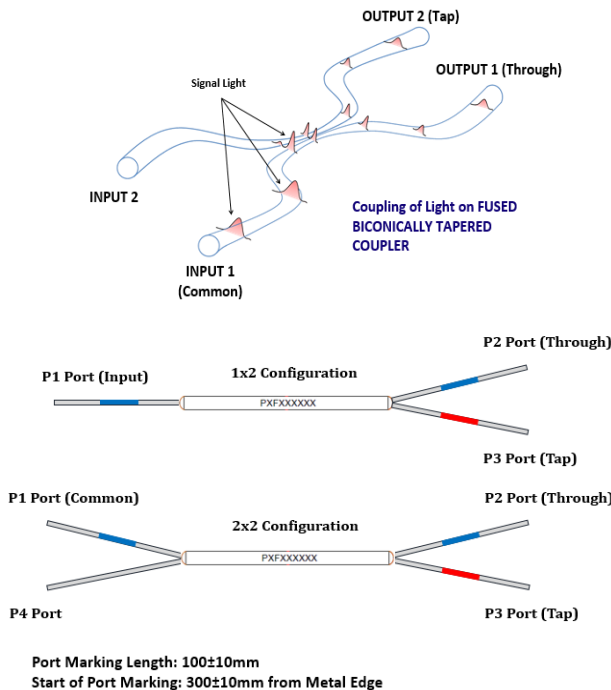
- Optical Fiber Distribution
- Signal Monitoring
- Optical Test System
- Power Splitting



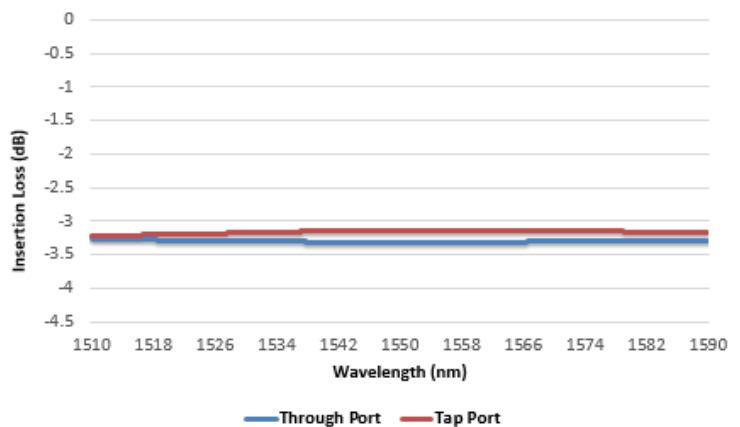
Description:

The Go!Foton Single Window Fused Tap Coupler can be used to split light from one fiber to two fibers or to combine light from two fibers to one and provide high performance across a broad wavelength. These devices are ideal for CATV systems and telecommunications, and provide low insertion loss with high reliability.

Schematic and Wavelength Spectrum:



50/50 Coupler



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Specification:

| Specifications | | Splitting Ratio 50/50 | | |
|-----------------------------|-----|-----------------------|--|---------|
| Parameter | | Unit | Premium | Grade A |
| Center Wavelength | | nm | 1310 and 1550 | |
| Bandwidth | | nm | ±40 | |
| Insertion Loss ¹ | Max | dB | 3.4 | 3.6 |
| Uniformity ² | Max | dB | 0.6 | 0.8 |
| Polarization Dependent Loss | Max | dB | 0.15 | 0.15 |
| Directivity | Min | dB | 55 | |
| Return Loss | Min | dB | 50 | |
| Power Handling Capacity | Max | mW | 500 | |
| Operating Temperature | | °C | -40 to 85 | |
| Storage Temperature | | °C | -40 to 85 | |
| Fiber Type | | | Corning SMF 28e or equivalent | |
| Package Dimension | | mm | φ3.0x45 for 250um Bare Fiber φ3.0x65 for 900um Loose Tube | |

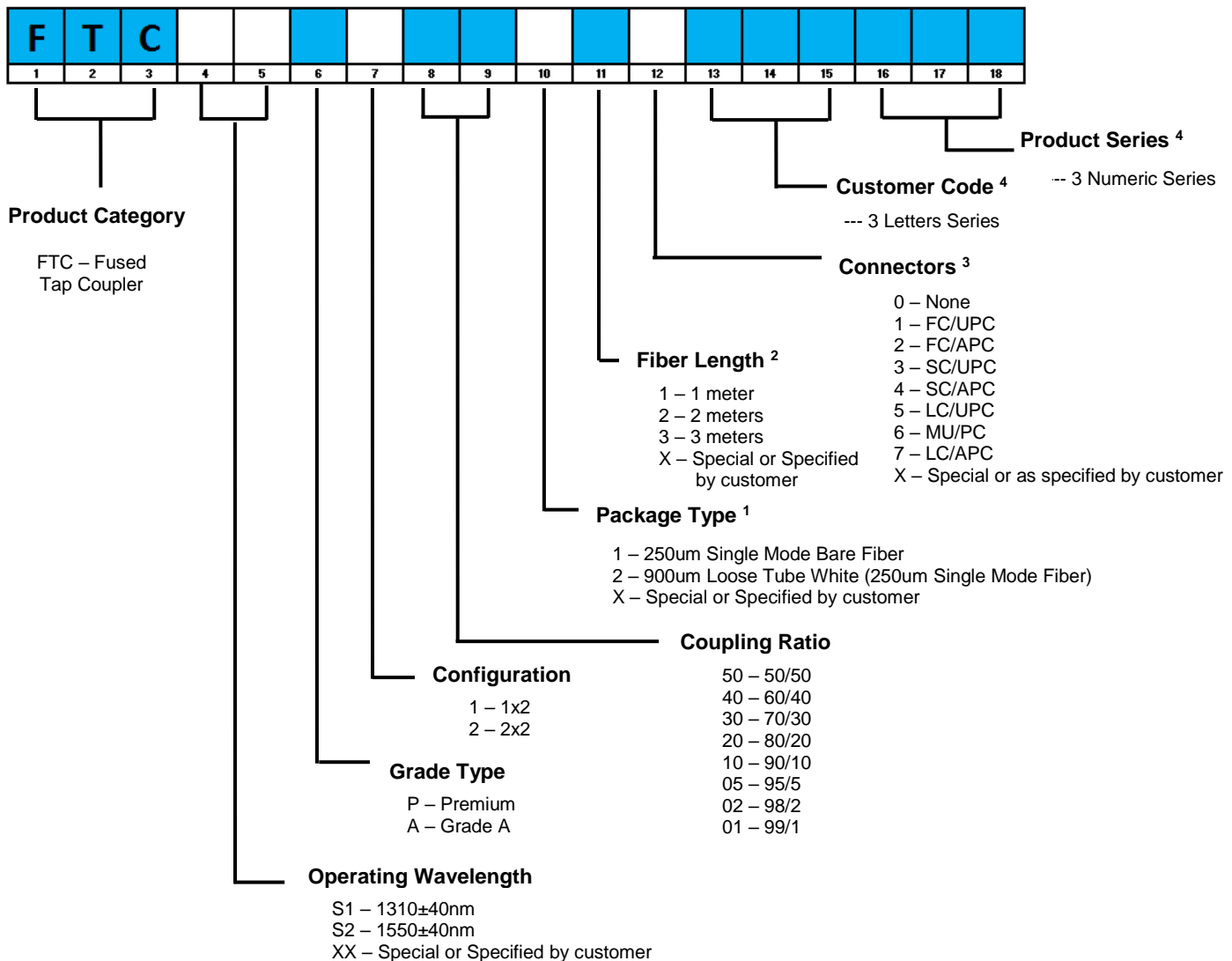
Notes: 1. Values are reference without connectors.

2. Parameter used for 50/50 tap coupler only and other parameters are applicable also to different coupling ratio.

Coupling Ratio and Insertion Loss Table

| Coupling Ratio | Maximum Insertion Loss (dB) | | | |
|----------------|-----------------------------|---------------|---------------|---------------|
| | Premium | | Grade A | |
| | Output Port 1 | Output Port 2 | Output Port 1 | Output Port 2 |
| 50:50 | 3.4 | 3.4 | 3.6 | 3.6 |
| 60:40 | 2.5 | 4.4 | 2.8 | 4.6 |
| 70:30 | 1.8 | 5.6 | 2.0 | 6.0 |
| 80:20 | 1.2 | 7.4 | 1.3 | 7.7 |
| 90:10 | 0.6 | 10.8 | 0.7 | 11.2 |
| 95:5 | 0.4 | 14.0 | 0.5 | 15.4 |
| 98:2 | 0.2 | 19.0 | 0.3 | 19.5 |
| 99:1 | 0.2 | 21.5 | 0.3 | 22.0 |

Ordering Information:



Notes:

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

Example: FTCS2P110112

Fused Tap Coupler, Single window @ 1550nm, Premium Grade, 1x2 configuration with 90/10 coupling ratio and 250um Single Mode Bare fiber, 1 meter with FC/APC Termination

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