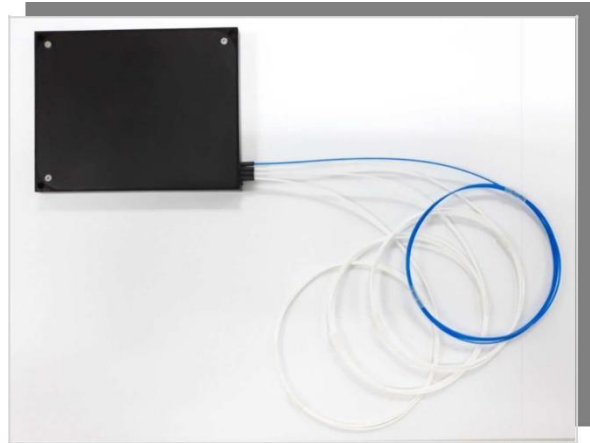


Features:

- All fiber Construction
- High Power Handling
- Low Noise
- Broadband Operation
- Fiber NA's Available
- Stable Environment Performance
- Good Heat Dissipation Packaging

Application:

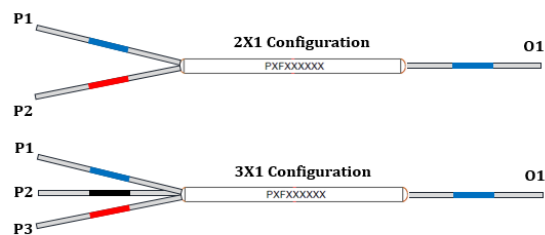
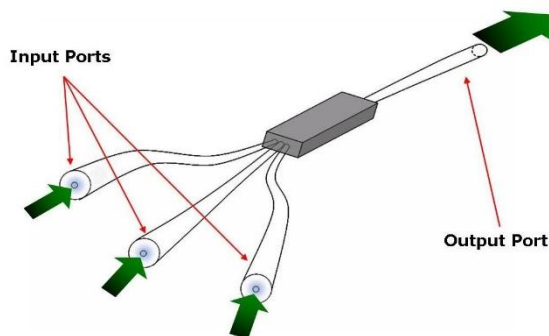
- Fiber Lasers
- Telecoms
- Medical Application
- Fiber Lasers
- Fiber Amplifiers



Description:

Using the reliable Fused Biconical Tapering Technology (FBT) and low loss splicing technique, the Go!Foton Tapered Fiber Power Combiner enables high efficiency coupling for high power pump lasers into single large mode area output fiber with a low loss high efficiency transmission. It can also be used to couple multiple high power fiber coupled lasers into a single multimode fiber with very low loss on each available paths. This device can handle very high power and has a good heat dissipation packaging to eliminate local heating that can possibly cause optical performance instability of the device.

Schematic:



Note: For 2X1 and 3X1 Configuration both MT and Box Cassette Packaging Bare Fiber Package

Port Marking Length: 100±10mm

Start of Port Marking: 300±10mm from Metal Edge

900um Loose Tube

Output Port Loose Tube Color : BLUE

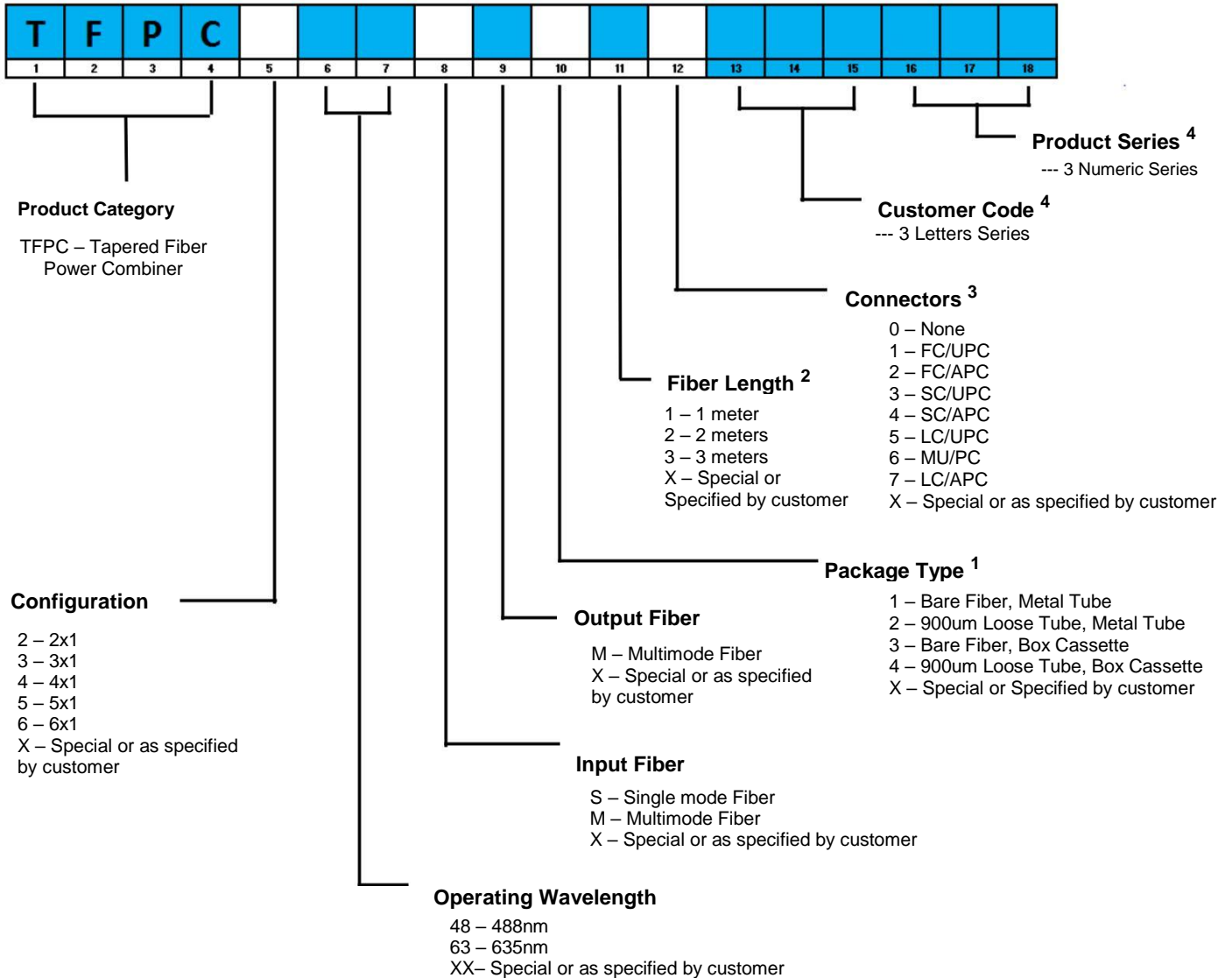
Input Port Loose Tube : WHITE with port color marking above

Specification:

| Parameter | Unit | |
|---------------------------------------|------|--|
| Operating Wavelength | nm | 488 and 635 |
| Fiber Type Configuration ¹ | | Input |
| | | Single Mode Fiber |
| | | Multimode Fiber |
| | | Output |
| | | Multimode Fiber |
| Fiber Number (Input) | | 2 - 6 |
| Transmission Efficiency ² | % | ≥ 90 for Single Mode Input Fiber ≥ 70 for Multimode Input Fiber |
| Max Power per Input Port ³ | W | 7 |
| Return Loss | dB | ≥ 40 |
| Operating Temperature | °C | -40 to 85 |
| Storage Temperature | °C | -40 to 85 |
| Package Dimension ⁴ | mm | φ3.0x54 Metal Tube for 250um Bare Fiber |
| | | φ3.0x65 Metal Tube for 900um Loose Tube |
| | | (L)110x(W)90x(H)8 Cassette Box Packaging Type |

- Notes: 1. Standard Input Fiber is SM600 for 635nm operating wavelength and SM450 or Nufern460HP for 488nm operating wavelength
Standard Multimode Fiber for Input is GI50 and Output Fiber is AFS 105/125um, NA0.22
2. Values are reference without connectors.
3. Typical Power Handling.
4. Metal Tube Package is applicable only for 3x1 and 2x1 Power Combiner Configuration.

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: TFPC363SM410

Tapered Fiber Power Combiner, 3x1 configuration, 635nm operating wavelength, Single mode to multimode, 900um loose tube box cassette, 1 meter, no connector

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