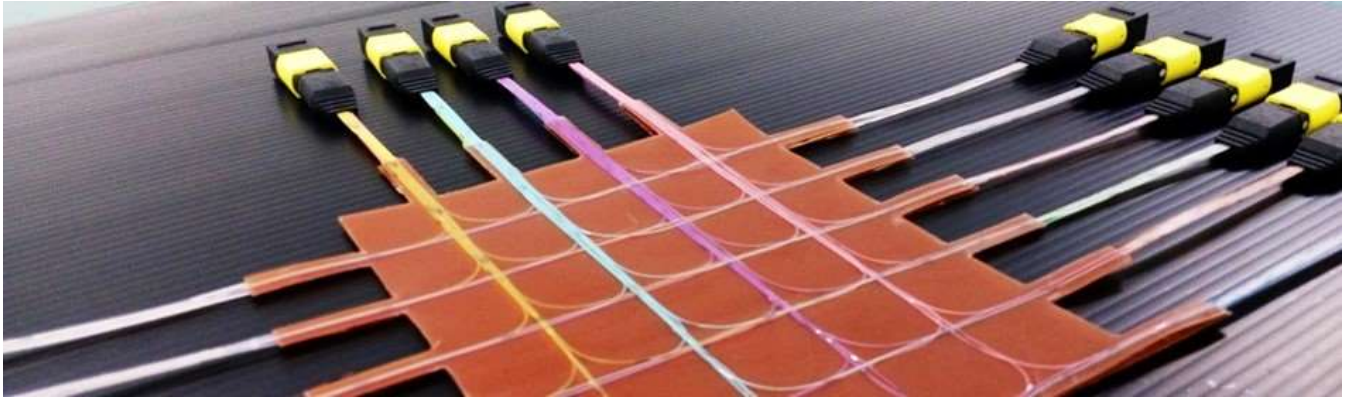
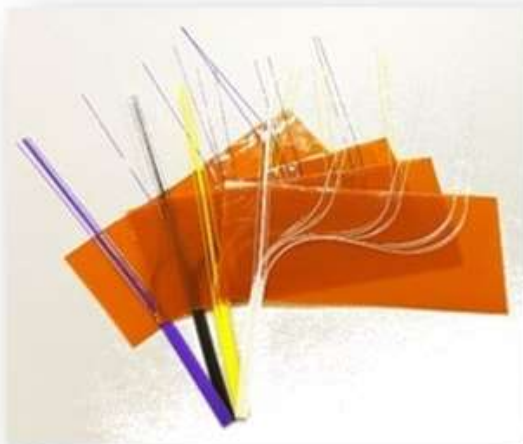


## Optical Fiber Flex Circuits



### Description:

The Go!Foton Optical Fiber Flex Circuits are manufactured using highly efficient routing and precision placement of optical fibers onto an ultra thin and flexible substrate to create an accurate, reliable, and space-saving fiber circuit. These highly durable and flexible fiber circuits can be made in virtually any shape or size allowing them to be more easily arranged into high-density packages saving valuable space on circuit boards, card level interconnections in optical line-cards, backplane interconnects and other applications requiring high density fiber routing and management.



Go!Foton high-density optical fiber flex circuits are made using fiber manufactured by industry leading suppliers which ensures the highest possible optical performance while utilizing the Go!Foton production process which can accurately create circuits with over 1000 fibers.

The Go!Foton optical flex circuit can withstand extreme environmental conditions in compliance with GR-1221-CORE Environmental Testing without impact on optical performance.

The GoFoton high-density optical fiber flex circuits may be used in both controlled and uncontrolled environments without compromising the optical performance or mechanical integrity of the fiber path.

All connectors supplied with the Go!Foton optical fiber flex circuits are certified to meet the highest Telcordia GR and Verizon TPR standards.



## Applications:

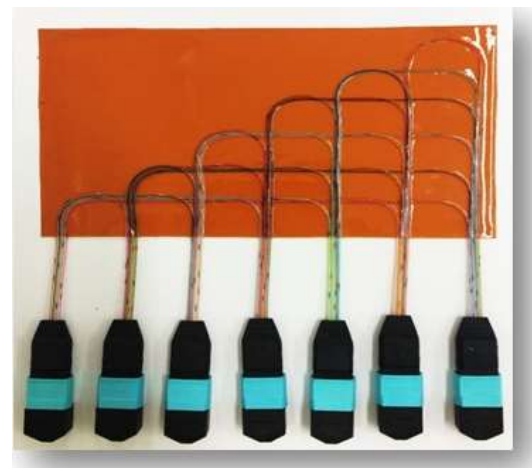
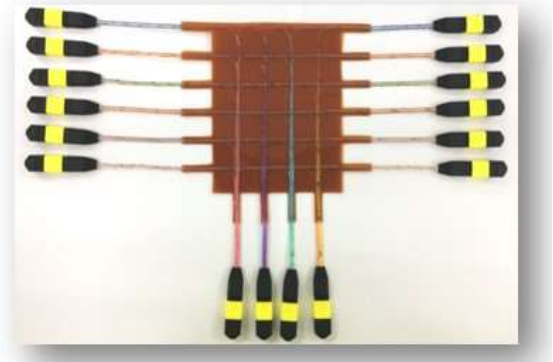
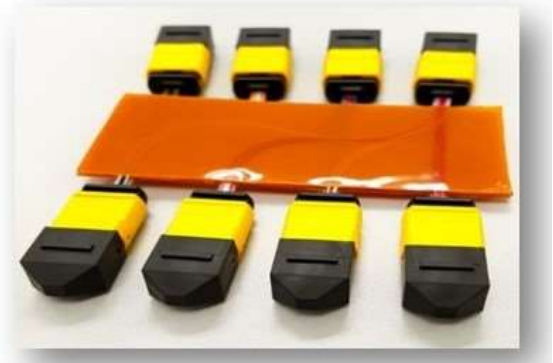
- High fiber count shuffling in optical transmission & switching equipment:
- Optical backplane interconnects
- Card level interconnects (Line Cards)
- Wavelength selective switches
- Complex optical fiber harnesses
- High density fiber management

## Features and Benefits:

- Ideal for complex fiber routing schemes and high fiber count applications
- Space saving for improved airflow around temperature sensitive components
- Supports any connector type
- Automated highly efficient and accurate manufacturing process for precise fiber placement and routing
- Available in both singlemode and multi-mode fiber types
- Versatile routing and management of fibers
- Compatible with different termination configurations (as well as pigtails for splicing)
- Well-defined polarity and continuity checking
- Complete port-to-port Insertion Loss (IL) testing on every fiber pathway
- Compact single and multi-layered designs

## Product and Design Features:

- Adhesive layer on substrate holds the fiber securely in place
- 250 $\mu$ m colored optical fibers are routed onto a substrate which is engineered with proper bend radius providing long mechanical lifetime and no impact on optical performance
- Coated with flame-resistant conformal coating to lock fibers in place, securely hold the fiber under crossovers, and provide a thermally stable polymer substrate conforming to UL94V0 flammability standards



## Specifications:

Optical	Specification
Insertion Loss	Typical values - SM: 0.30dB - MM: 0.50dB
Return Loss	Typical values - SM: 65dB - MM: 25dB
Fiber Type	Singlemode (9/125um): - G.657A2 / B2 - G.657B3  Multimode (50/125um): - OM3 - OM4
Mechanical	Specification
Substrate	Polyimide film
Circuit Shape	<i>*Customized to your specific requirements and applications</i>
Termination	MT, MPO, MTP, LC, FC, ST, SC
Enclosure	<i>Works well in Go!Foton's PEACOC™ 1RU fiber panel (custom designed enclosures also available depending on your specific requirements)</i>



**Fiber Flex Circuits in Go!Foton's PEACOC 1RU Fiber Panel**



## Ordering Guide:

Call or email Go!Foton for more information

