FlexPlane Optical Flex Circuits provide versatile, high-density routing on a flexible substrate, and Routed Ribbon Solutions offer cable management and mitigate airflow challenges for low-profile Network interface cards (NICs), switch fabric modules, complex shuffling and backplane applications.

**Features and Advantages**

**FlexPlane Optical Circuit Solution Options**

Compatible with mass and discrete-fiber terminations
Ensures customized solutions

Entire circuit 100% tested for insertion loss and continuity
Ensures correct pin-out prior to shipment

Singlemode, multimode and hybrid versions
Provide a variety of options

**Routed Ribbon Solutions**

Automated fiber routing platform
- Accurate and repeatable patterns
- Scalable: High-volume capacity

Efficient solutions for high-fiber system
- Organized fiber management
- Efficient front panel patching (i.e., shuffling)

Multiple interconnect options
- Complement onboard optical engines
- Supports optical backplanes

Diverse substrate size, shape, packaging and fiber routing
- Small footprint, compact density
- Low-profile package, increased airflow
FlexPlane Optical Circuitry and Routed Ribbon Cable Solutions

On-Board Fiber Management with Routed Ribbon

Routed ribbon reduces ribbon fiber height in stacked areas and curves. Improves fiber management and airflow on the board.

Routed ribbon interconnects and modules. Eases circuit pack assembly and opens up PCB real estate. Allows ribbon shuffling and breaks from single or multiple MT ferrules.

Simple or complex shuffle designs. Fibers within ribbons can be shuffled or ribbons can be blended together for small compact products with complex interconnect patterns.

Specifications

**REFERENCE INFORMATION**
Packaging:
- FlexPlane Optical Circuitry – Packaged Flat in Box Mates With: MT-Based Connectors (MTP, HBMT, BMTP); Single-Fiber Connectors (Series LC, SC, BLC, BSC)

**OPTICAL**
Insertion Loss (IL): Dependent on Terminated Connector Type
Fiber Type:
- Singlemode – 9/125µm
- Multimode – 50/125µm
- Multimode – 62.5/125µm

**PHYSICAL**
FlexPlane Substrate: Kapton
Thickness: Typical is Less Than 1.50mm per Layer
Mounting: Mounting Holes or Devices Are Designed to Customer Requirements

www.molex.com/fiber/flexplane.html

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