FEATURES AND SPECIFICATIONS

查询"106401-0000"供应商

High-density FlexPlane Optical Circuitry provides high-density optical routing on PCBs or backplanes

Molex's FlexPlane optical flex circuitry provides one of the highest density and versatile interconnect systems on the market today. For high fiber-count interconnects in backplanes and cross-connect systems, Molex's FlexPlane provides a manageable means of fiber routing from card-to-card or shelf-to-shelf. Designed for versatility, the standard FlexPlane (Series 106401) provides high-density routing on a flexible, flame-resistant substrate. Additional options are now available including flame-retardant assemblies and 3D versions.

As the industry requirements for flammability have become more stringent, Molex developed a custom flame-retardant FlexPlane assembly. The flameretardant FlexPlane assembly (Series 106404) meets the UL Optical Branching Device Flammability requirements. The 3D FlexPlane (Series 106406) provides almost a 50% substrate size reduction compared to the standard FlexPlane. This is critical, as board space and air flow continue to become a stringent part of 0EM design requirements. Traditional FlexPlane flex circuits are routed on a single substrate. The 3D FlexPlane routes the fiber on multiple stacked substrates to achieve a compact routing area.

A variety of interconnects, including Blind Mate MTP (BMTP™), High Density Blind Mate MT (HBMT™), Blind Mate LC (BLC™) and Blind Mate SC (BSC™) can be used to connect the optical flex circuits to individual cards in a shelf. Available in any routing scheme, fiber can be routed point-to-point, in a shuffle, or in a logical pattern to meet specific requirements. Direct or fusionspliced terminations are available.

FlexPlane™ Optical Circuitry

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106401 Standard 106404 Flame-Retardant 106406 3D Compact Substrates

Packaging alternatives include standard bare flexible substrate, sandwiched in FR-4 or custom laminating. Each FlexPlane circuit can be fully tested down to the per port insertion loss and return loss. For more information on Molex's FlexPlane offering, visit: www.molex.com/fiber/flexplane.html.







Flame-Retardant FlexPlane (Series 106404)





3D FlexPlane (Series 106406)

FEATURES AND SPECIFICATIONS

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Features and Benefits

- Diverse substrate size, shape and packaging provides efficient and manageable solutions to high-fiber count systems
- Compatible with mass and discrete-fiber terminations to ensure customized solutions
- Available in virtually any routing scheme to provide a variety of design alternatives
- Direct or fusion splice terminations available to eliminate additional insertion loss
- Compatible with MT ferrules, an ideal solution for high-density applications using Molex's backplane HBMT and BMTP interconnect systems

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- Singlemode, multimode or hybrid versions provide a variety of options
- Entire circuit is 100% insertion loss (IL) and continuity tested to ensure correct pin-out prior to shipment

FlexPlane™ Optical Circuitry

106401 Standard 106404 Flame-Retardant 106406 3D Compact Substrates

SPECIFICATIONS

Reference Information

Packaging: Packaged flat in a box Flame Retardant FlexPlane (Series 106404): Meets UL Optical Fiber Branching Device (File # E236312) Mates With-Terminate with: MT based connectors (MTP, HBMT[™], BMTP[™]) Single-fiber connectors (Series LC, SC, BLC[™], BSC[™]) **Optical** Insertion Loss (IL): Dependant on terminated connector type Fiber Type: Singlemode – 9/125µm Multimode – 50/125µm Multimode – 62.5/125µm

Physical

Substrate: Kapton* Thickness: Typical is less than 1.50mm (.059") per layer Mounting: Mounting holes or devices are designed to customer requirements

*Kapton is a registered trademark of DuPont

APPLICATIONS

- Telecommunication
 - Hubs
 - Servers
 - Routers
 - Switches









Order No.	Description	Substrate Width	Substrate Length	Substrate Height
106401-0000 ⁺	Standard Routing 8-by-8 Perfect Shuffle	74.00mm (2.193")	137.00mm (5.394")	1.50mm (.059")
106404 [†]	Flame-Retardant Standard Shuffle Series	Standard or 3D versions are also available as Flame-Retardant FlexPlane assemblies		
106406-0000 ⁺	3D Routing 8-by-8 Perfect Shuffle	32.00mm (1.260")	71.00mm (2.795″)	3.00mm (.118")
106404 [†]	Flame-Retardant 3D Shuffle Series	Standard or 3D versions are also available as Flame-Retardant FlexPlane assemblies		

[†] Only sold as terminated assemblies. Part numbers and sales drawings will be established based on specific customers design requirements.

www.molex.com/fiber/flexplane.html

Molex Fiber Optics 5224 Katrine Avenue Downers Grove, IL 60515 amerinfo@molex.com Asia Pacific North Headquarters Yamato, Kanagawa, Japan 81-46-265-2325 apninfo@molex.com Asia Pacific South Headquarters Jurong, Singapore 65-6268-6868 fesinfo@molex.com European Headquarters Munich, Germany 49-89-413092-0 eurinfo@molex.com Corporate Headquarters 2222 Wellington Ct. Lisle, IL 60532 U.S.A. P: 630-969-4550 F: 630-969-1352