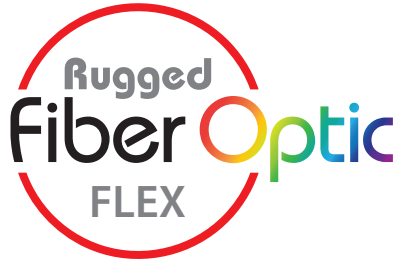


High fiber count, small form-factor optical flex circuits for rugged defense, aerospace, and space applications

SHUFFLE CIRCUITS AND OPTICAL FIBER CROSSOVER DESIGNS

High data rate **Optical** assemblies

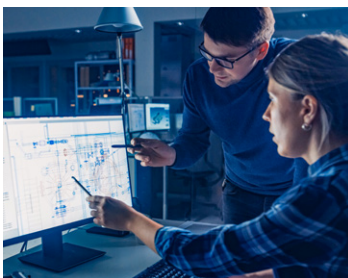
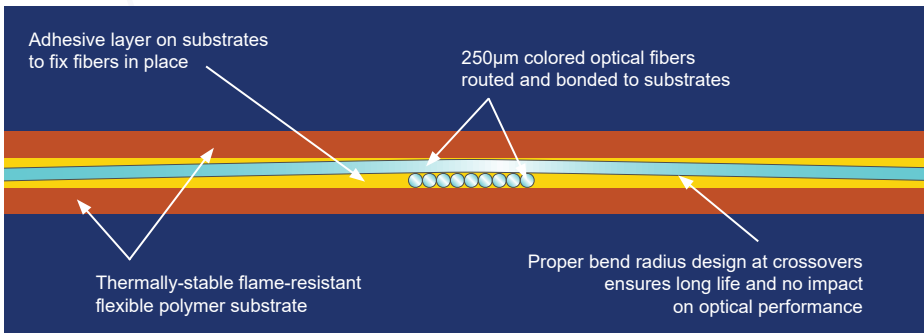


FEATURES

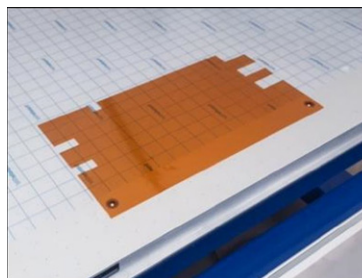
- Connectorized optical harness assemblies and breakouts, SM and MM
- Shuffle circuits with low-loss multimode fiber
- Ribbonized MT leads up to 12 inches and longer

BENEFITS

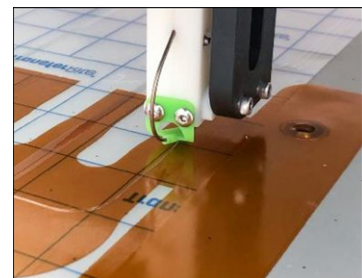
- Reduced installation / termination time and improved reliability
- Superior fiber management
- Complex fiber routing in minimal space
- Controlled routing lengths (low-skew)
- Controlled bend radius for minimized bend loss



3D layout and routing designs in Fusion 360



Build-to-print per customer specifications

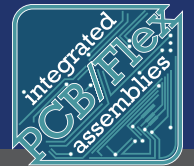


Single- and multimode fiber bonding

- **Optical fiber bonded to a flame-resistant Kapton substrate—rad-hardened and outgassed assemblies available**
- **High-density fiber-to-fiber spacing: 250 µm**
- **Optimized fiber layouts, bend radius, and routing for high fiber-count applications**
- **Industry-standard connector terminations including FC, SC, LC, and others plus Glenair Signature F/O terminations including MT, GC, GHD, GFR, Eye-Beam, and others**

Optical Fiber Nominal OD	250um
Fiber Types	Singlemode/Multimode
Operating Temperature	-40° to +100°C
Typical Minimum Bend Radii	0.5 inch
Circuit Thickness	.018 inch
Flat and 3D Designs	Yes
Flame Resistance	UL-V1 or Better
Shuffle Circuits	Yes
Substrate	Kapton

Optical Flex Circuit Assemblies



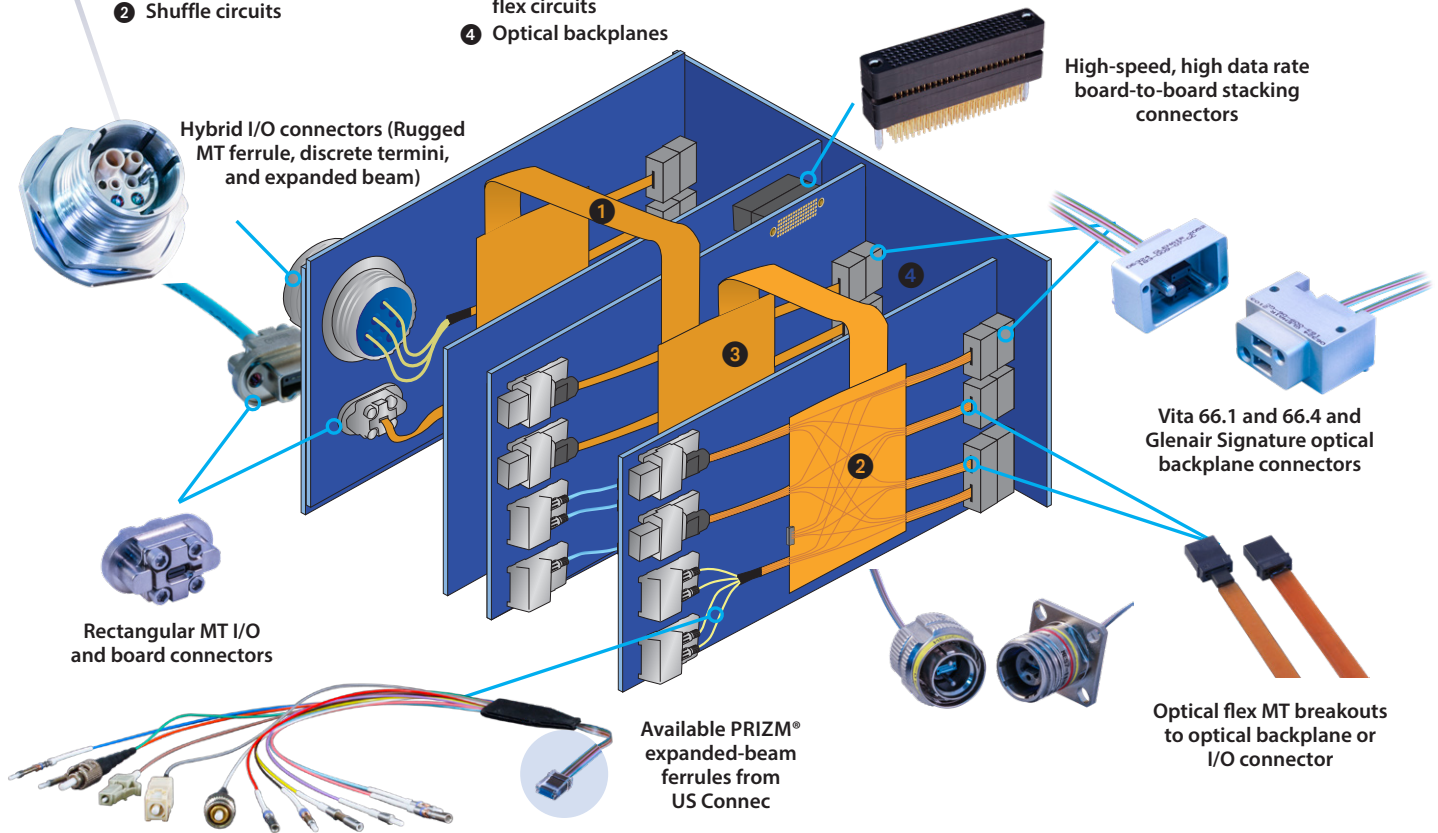
High fiber count, small form-factor optical flex circuits for rugged defense, aerospace, and space applications

OPTICAL FLEX ECOSYSTEM

Integrated SM and MM Optical Flex assemblies

Ecosystem includes MTP®/MPO transceiver interface connectors, turnkey fiber optic breakout cables, and ruggedized MT ferrule-equipped I/O connectors—circular and rectangular.

- 1 Card-to-card optical flex circuits
- 2 Shuffle circuits
- 3 On-board optical flex circuits
- 4 Optical backplanes



TURNKEY OPTICAL FLEX JUMPERS



Optical flex jumpers terminated to MT fiber optic ferrules, PRIZM MT expanded-beam ferrules, and standard Fiber Optic connectors, as well as Glenair signature environmental I/O fiber optic connectors, are available as catalog items.