

MISSION-CRITICAL
INTERCONNECT
SOLUTIONS

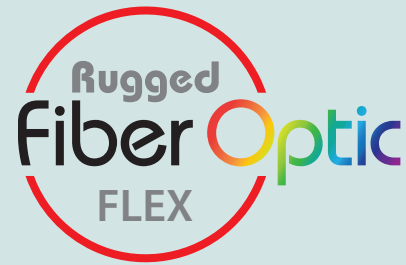


Glenair
SIGNATURE SERIES

Optical Flex Circuit Assemblies

With MT or M29504 Fiber Optic Breakouts





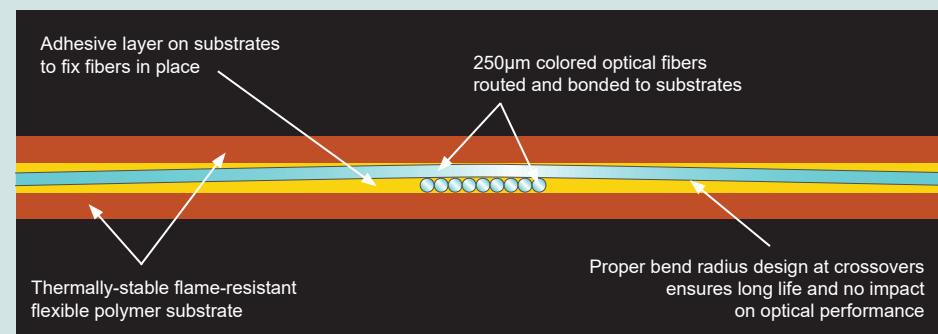
Rugged High-Density,
High Data Rate
Optical Flex Circuits for
F/O Backplane and Card-
to-Card Applications



Integrated, turnkey optical flex circuit assemblies with high-density MT ferrule terminations and Glenair Signature or M29504 F/O breakouts

OPTICAL FLEX CIRCUIT DESIGN FEATURES: FIBER CROSSING

Cross-section of a two-layer optical flex circuit with crossover fibers



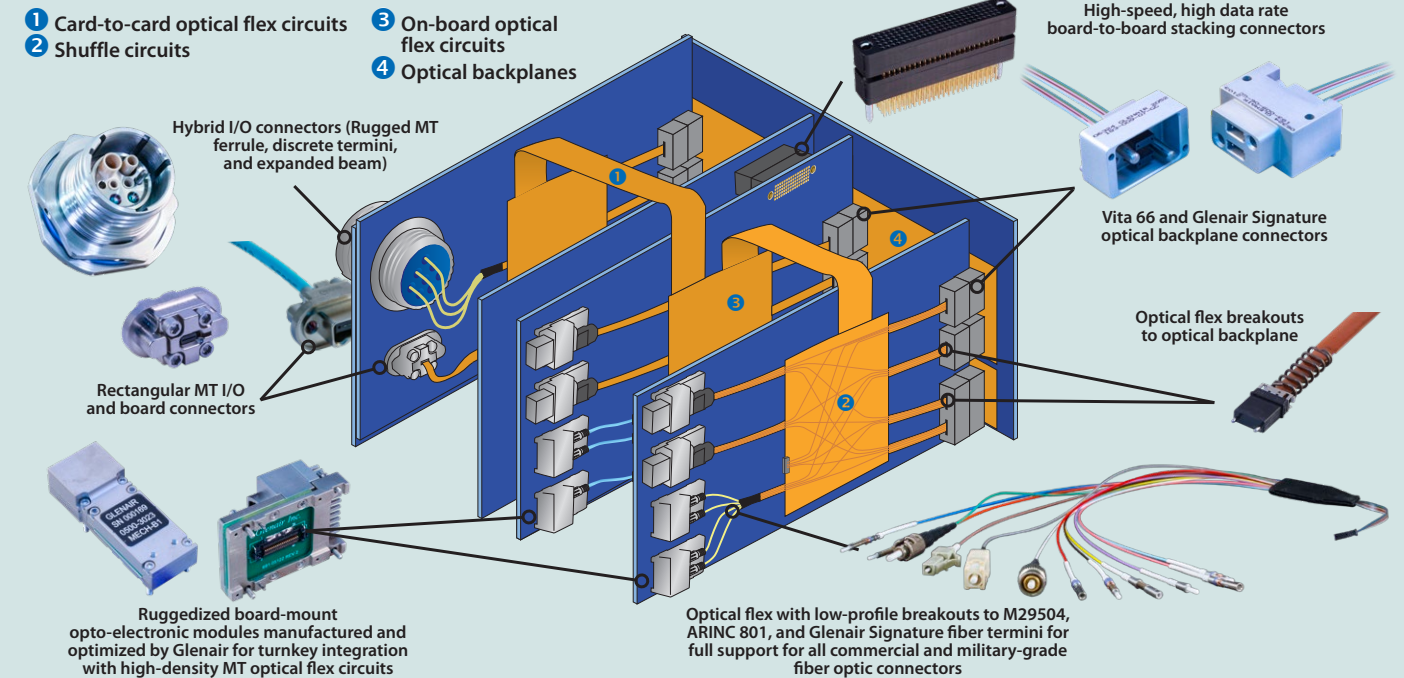
- Discrete optical harness assemblies and breakouts
- Shuffle circuits
- On-board (inter/intra-board) optical flex circuits
- Optical backplanes
- Turnkey PhotonicFlex integrated assemblies
 - Available MT I/O and board connectors
 - Available board-mount opto-electronic modules
 - VITA 66 type backplane connectors
 - Rugged fiber optic datalink connectors with Glenair high-performance termini
- Glenair in-house design, fabrication, integration, and test

INTEGRATED, TURNKEY Optical Flex Circuit Assemblies

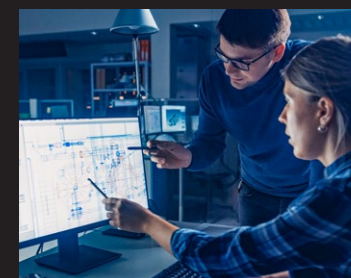


High fiber count, small form-factor optical flex circuits for rugged defense, aerospace, and space applications

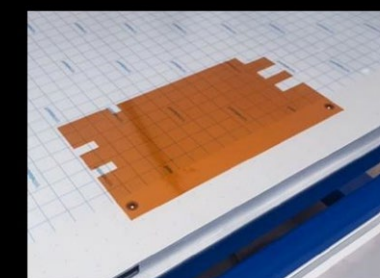
THE ROLE OF OPTICAL FLEX CIRCUITRY IN BOARD-TO-BOARD AND BACKPLANE APPLICATIONS



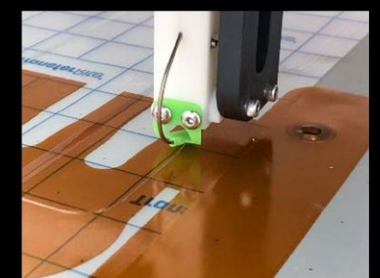
IN-HOUSE FABRICATION MINIMIZES CROSSOVER STRESS IN COMPLEX ROUTING ARRANGEMENTS



3D layout and routing designs in Fusion 360



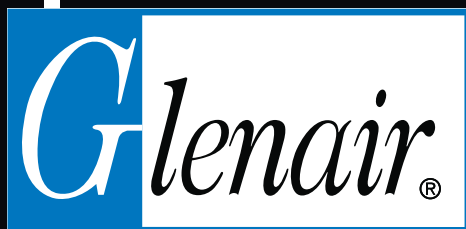
Build-to-print per customer specifications



Single- and multimode fiber bonding

- Optical fiber bonded to a flame-resistant Kapton substrate
- 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	250µm
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



MISSION-CRITICAL INTERCONNECT SOLUTIONS

Glenair, Inc.

1211 Air Way • Glendale, California • 91201-2497

Telephone: 818-247-6000 • Fax: 818-500-9912 • sales@glenair.com

www.glenair.com

Glenair Power Products Group

20 Sterling Drive
Wallingford, CT
06492

Telephone:
203-741-1115
Facsimile:
203-741-0053
sales@glenair.com

Glenair UK Ltd

40 Lower Oakham Way
Oakham Business Park
Mansfield, Notts
NG18 5BY England

Telephone:
+44-1623-638100
Facsimile:
+44-1623-638111
sales@glenair.co.uk

Glenair Microway Systems

7000 North Lawndale Avenue
Lincolnwood, IL
60712

Telephone:
847-679-8833
Facsimile:
847-679-8849

Glenair Nordic AB

Gustav III : S Boulevard 42
SE-169 27 Solna
Sweden

Telephone:
+46-8-50550000
sales@glenair.se

Glenair GmbH

Schaberweg 28
61348 Bad Homburg
Germany

Telephone:
06172 / 68 16 0
Facsimile:
06172 / 68 16 90
info@glenair.de

Glenair Iberica

C/ La Vega, 16
45612 Velada
Spain

Telephone:
+34-925-89-29-88
Facsimile:
+34-925-89-29-87
sales@glenair.es

Glenair Italia S.p.A.

Via Del Lavoro, 7
40057 Quarto Inferiore –
Granarolo dell'Emilia
Bologna, Italy

Telephone:
+39-051-782811
Facsimile:
+39-051-782259
info@glenair.it

Glenair France SARL

7, Avenue Parmentier
Immeuble Central Parc #2
31200 Toulouse
France

Telephone:
+33-5-34-40-97-40
Facsimile:
+33-5-61-47-86-10
sales@glenair.fr

Glenair Korea

6-21Tapsil-ro 58beon-gil
Giheung-gu, Yongin-si
Gyeonggi-do
Republic of Korea

Telephone:
+82-31-8068-1090
Facsimile:
+82-31-8068-1092
sales@glenair.kr

