

PCB / Flex Circuit Assemblies

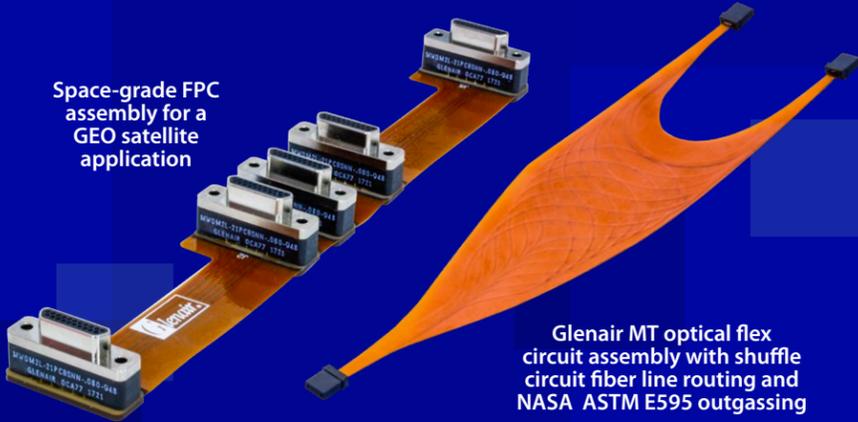
**SPACE-
GRADE**



Ultra lightweight flex circuit assemblies manufactured by Glenair have traveled to and from orbit dozens of times on NASA and ESA platforms as well as on numerous commercial space-launch vehicles and satellites.

Glenair connectorized flex circuit assemblies are available in configurations optimized for space with inherently radiation-resistant materials, NASA EEE-INST-002 screening, and lot traceability.

Space-grade FPC assembly for a GEO satellite application



Glenair MT optical flex circuit assembly with shuffle circuit fiber line routing and NASA ASTM E595 outgassing



Inherently radiation-resistant materials, space agency screening, Class G space-grade interconnects, and lot traceability

ADVANTAGES OF FLEX CIRCUITRY FOR SPACE APPLICATIONS:

Optimal Size and Weight Reduction

- Withstands high levels of launch shock and vibration
- Broad temperature tolerance
- Inherently radiation-resistant materials
- NASA screening and lot traceability
- TRL 9 with space agency and commercial flight legacy



TECHNICAL READINESS LEVEL TRL 9

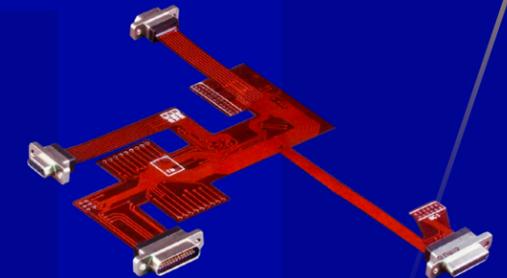
Connectorized PCB Flex Assembly Designs



Space-grade Series 28 HiPer-D to Series 80 Mighty Mouse I/O jumper



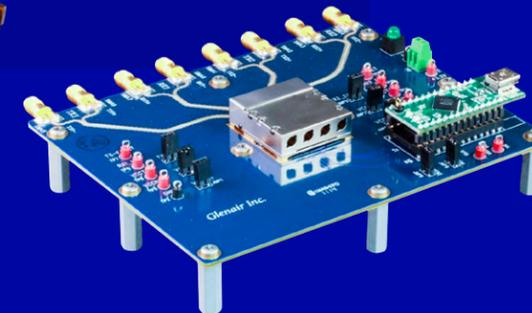
EMI/RFI filtered power transmission flex circuit assembly



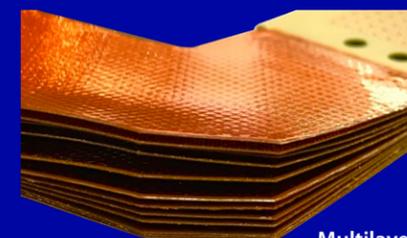
Micro-D subminiature multibranch flex assembly



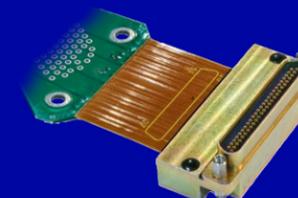
Connectorized I/O-to-board jumper assemblies



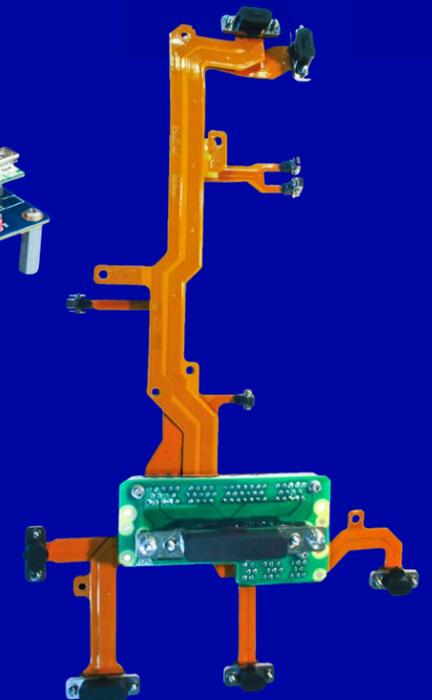
Rigid board assemblies with surface-mount components



Multilayer flex and rigid-flex assemblies



Rigid flex Micro-D assembly with ecobond strain relief



Hybrid rigid/flex assemblies