

MEDICAL FLEXIBLE CIRCUITS

Advanced flex engineering powering medical performance



Flexible Circuit Technologies (FCT) continues to lead the way in delivering advanced flexible and rigid-flex circuit solutions for the medical industry. As healthcare technology evolves, the demand for high-performance, compact, and reliable interconnects continues to grow across diagnostic, monitoring, wearable, and surgical applications.

Trends in Electronics Transforming Healthcare

The medical industry is experiencing a rapid transformation driven by IoT, miniaturization, wearables, and mobility. These forces are redefining how electronic systems are integrated into healthcare devices and are fueling demand for specialized flexible interconnect solutions.

- **Remote Patient Monitoring & Home Health**
- **High-Density Interconnects (HDI)**
- **Flexible Hybrid Electronics (FHE)**
- **Sustainability & Advanced Materials**





SUPERIOR DESIGN SUPPORT

Significant growth in the need for medical interconnect solutions has created demand for engineering expertise. FCT's senior application engineers average over 30 years of experience in flex and rigid-flex design, supported by a team of more than 100 engineers across our global locations.

We understand material capabilities, limitations, and cost optimization strategies—ensuring our customers achieve reliable and manufacturable designs that meet or exceed their performance targets.

These advancements have increased the need for custom interconnects such as Flexible Circuits, Rigid-Flex, Flexible Heaters, and Advanced High-Performance Circuits that meet the rigorous demands of today's medical applications.

- PROTOTYPING
- PRODUCTION
- VALUE-ADDED ASSEMBLY
- COMPLETE PRODUCT BOX BUILDS
- PLASTIC MOLDINGS
- FLEXIBLE CIRCUITS
- WEARABLES
- FLEXIBLE HEATERS

We currently partner with major medical OEMs across the globe!

Contact FCT to explore the possibilities for your catheter program! sales@flexiblecircuit.com

inTFlex

The EMS Group of Flexible Circuit Technologies

With over 900,000 sq/ft of cutting-edge manufacturing technology, inTFlex merges FCT's electronic manufacturing and contract manufacturing services into a new state-of-the-art facility. inTFlex, the EMS group of Flexible Circuit Technologies, features high-speed, fully automated SMT smart lines, plastics molding, membrane switches, CNC capabilities, fixtures, and all existing value-added services. inTFlex allows FCT to continue providing outstanding EMS and CM services to bring world-class interconnect solutions to life, optimize production efficiency, and support program scalability for global medical clients.

To learn more about inTFlex, visit: flexiblecircuit.com/intflex

- FPCA and PCBA
- Sub-Assembly
- Box Build
- Plastics and Sterilization
- Bare flex circuits



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