

Flexible Circuit Technologies

EV BATTERY

MONITORING SOLUTIONS



Flexible Circuit Technologies (FCT) is a leading global supplier of **flexible circuits and flexible heaters** utilized in a broad range of **Battery applications**. Flexible Circuits are being utilized to connect to the battery cells while integrating to the vehicles electronics and monitors the health of the battery. Beyond battery monitoring often flexible heaters are being utilized in support of extending the batteries life in cold climates.

With significant momentum in the EV market and need for proven solutions; it is important for OEMs to identify those that bring significant experience in addressing these important applications.

- FCT has been engaged in the design, development, prototyping, and production of EV Battery Monitoring solutions dating back to 2014.
- We have served direct to OEMs, and to Tier I, Tier II suppliers in meeting EV Battery monitoring needs.
- We have developed a broad range of solutions for **automotive, transit, recreational, off-road, and other related vehicles and product offerings**.

SOLUTION DEVELOPMENT

Design Services Support

- Early Design Consultation and support.
- Conceptual design, design for functionality, and (DFM) design for manufacturing.
- Design reviews aimed at cost reduction to attain the most cost-effective solution.
- Assembly services design to attain the most automated and economical approach.
- CAD layout services in support of your project.

Multiple Stack-up options

Single sided	Single sided Dual Access
Double sided	Multi-Circuit assembly options

Selecting Tab materials

Nickel	Aluminum
Nickel plated copper	Copper/Aluminum Fused

Tab Assembly methods

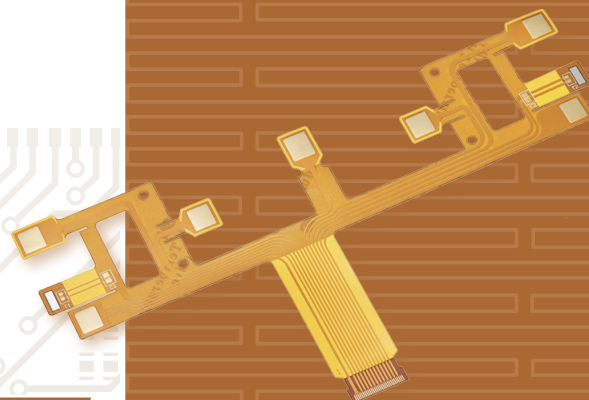
Soldering	Ultra Sonic Welding	Arc Welding	Crimp pin	Surface Mount
Laser Weld	Riveting	Connector Options	Ziff Tail	Through hole

DESIGN CHALLENGE

Trends in **AUTOMOTIVE** continue to drive design engineers to specialty interconnects including:

- **FLEXIBLE CIRCUITS**
- **RIGID FLEX**
- **FLEXIBLE HEATERS**
- **ADVANCED CIRCUITS**
- **LARGE FORMAT CIRCUITS**

that are often required to meet the demands of these challenging applications.



Circuit Connector Tab Reinforcement

Epoxy	Conformal Coating
Eco-Bond	Stiffeners – including: Polyimide, PET, FR-4, Stainless

Component Procurement and Assembly Services

Flexible Circuit Technologies can procure and managed the components needs for your assembly solution. We provide value added SMT assembly to completing product module builds including circuit assembly, carrier and/or other needed items.

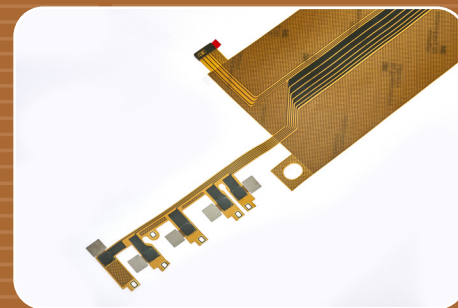
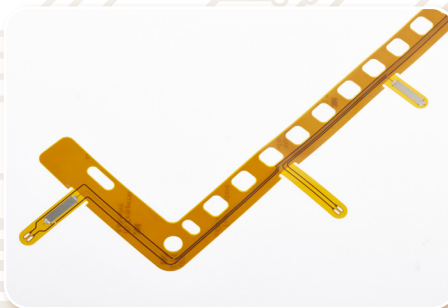
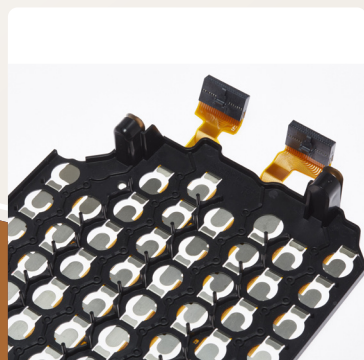
DESIGN * PROTOTYPING * PRODUCTION * ASSEMBLY

FCT offers significant capacity and flexibility enabling us to meet low, mid, to high volume program needs while providing you with outstanding overall program management and responsive customer support!

Flexible Circuit Technologies is a premier supplier of flexible circuits, rigid flex, flexible heaters, membrane switches, plastic moldings, and value added SMT assembly, to product module builds to complete box builds.

In **AUTOMOTIVE** we offer extensive expertise addressing a broad range of applications including:

Tail light accent, head light accent, mirror heaters, seat heaters, dashboard lighting, light touch sensors, phone charging station, speakers, back up camera, heated camera lens, brake assembly, brake controls, control switches), daytime running lights, door handle touch sensors, motor controls, rear view mirror camera display, steering column controls, after market lighting products, EV–battery monitoring and heating, large format circuits, and much more...



FCT's Global Team

is committed to staying abreast of industry trends, monitoring the various applications that we address and capturing our successes while coordinating our activities aimed at ensuring customer success.

For further information or consultation please contact:

Juergen Furgoll FCT Europe
Director of Business Development
Juergen.Furgoll@flexiblecircuit.eu.com
Mobile: +49 (0) 172-6104-063

Anita Whalen – FCT USA
Director of Business Development
Anita.whelen@flexiblecircuit.com
Mobile : 612-289-5416

Terrill Schmidt FCT USA
Director of Technology
Terrill.Schmidt@flexiblecircuit.com
Mobile: 612-751-4890

Mark Finstad FCT USA
Director of Application Engineering
Mark.Finstad@flexiblecircuit.com
Mobile: 763-291-1808

Carey Burkett FCT USA
Vice President Business Development
Carey.Burkett@flexiblecircuit.com
Mobile: 612-518-0140

Michigan USA FCT Representative
Miltimore Sales
248-349-0260

FLEXIBLECIRCUIT
Technologies

Flexible Circuit Technologies
9850 51st Ave. N. | Plymouth, MN 55442
flexiblecircuit.com | +1-763-545-3333