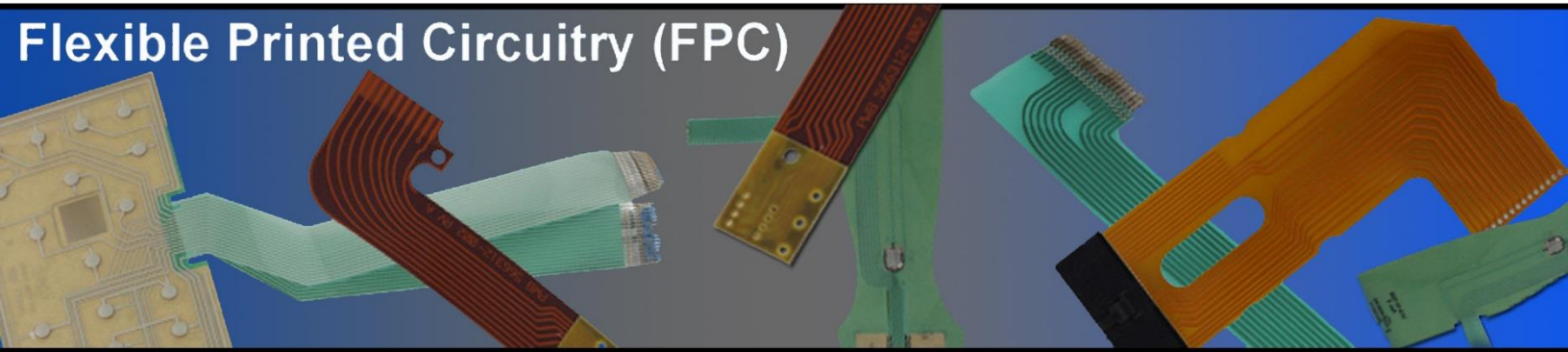


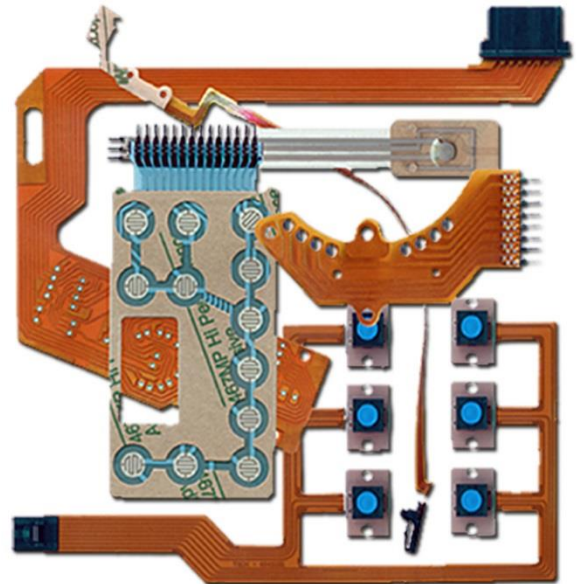


Flexible Printed Circuitry (FPC)



CUSTOM TERMINATIONS for

- * FLEXIBLE PRINTED CIRCUITS
- * MEMBRANE SWITCHES



Flexible Printed Circuit and Membrane Switch Termination Services

Many designers in the electronics industry are choosing to use Flexible printed circuits to address a multitude of issues, including:

1. Solve packaging problems.
 - Flexible circuits allow unique designs which solve interconnection problems.
 - The formability of a Flexible circuit enables a package size reduction.
 - A Flexible circuit makes installation and repair practical and cost effective.

2. Reduce assembly costs.

- Flex circuits can be tested prior to assembly components.
- Elimination of connectors and solder joints reduce costs.

3. Replace Circuit boards and wires.

- Flex circuits simplify system design.
- Flex circuits reduce the number of levels of interconnection required in an electronic package.
- Flexible circuits eliminate human error common in wire assemblies as routing is determined by artwork and repeatability is guaranteed.

4. Reduce weight and space.

- Considerable weight reduction is a benefit over traditional round-wire harnesses. Thickness can be as thin as .004 inches (.10mm) in total.

5. Dynamic Flexing.

- The thinness of the material makes Flex circuits the best candidate for Flexible applications up to millions of flexures.

6. Thermal management/high temperature applications.

- Flex circuits dissipate heat at a better rate than any other dielectric materials while providing the added benefits of vastly improved flexibility.

7. Aesthetics.

- Flexible circuits improve the internal appearance of an electronic package, which can have an influence on the decision making process of prospective users of the product.

Gopher Electronics has the tooling, products and expertise required to properly terminate flexible printed circuits.

CUSTOM TERMINATION SERVICES

* Flexible Circuit Terminations

* Insulation Materials

- Kapton®
- Mylar
- Teflon®

* Pitches

- .100" [2.54mm]
- .075" [1.905mm]
- .050" [1.27mm]

* Terminations

- .100" Centerline
 - Solder Tabs
 - Receptacles (with or without housings)
 - Pins (with or without housings)
- .075" Centerline
 - Solder Tabs (long or short)
 - Receptacles (without housings only)
- .050" Centerline
 - Solder Tabs (long or short)
 - Receptacles (with or without housings)

*All terminations are compliant with Tyco Electronics' AMP Application Specifications 114-16008 and 114-16015.

* Membrane Switch Terminations

* Insulation Materials

- Kapton®
- Mylar
- Teflon®

* Terminations

- .100" Centerline
 - Solder Tabs
 - Receptacles (with or without housings)
 - Pins (with or without housings)
- .050" Centerline
 - Solder Tabs (long or short)
 - Receptacles (with or without housings)

* Test and Compliance Certifications are available on request.