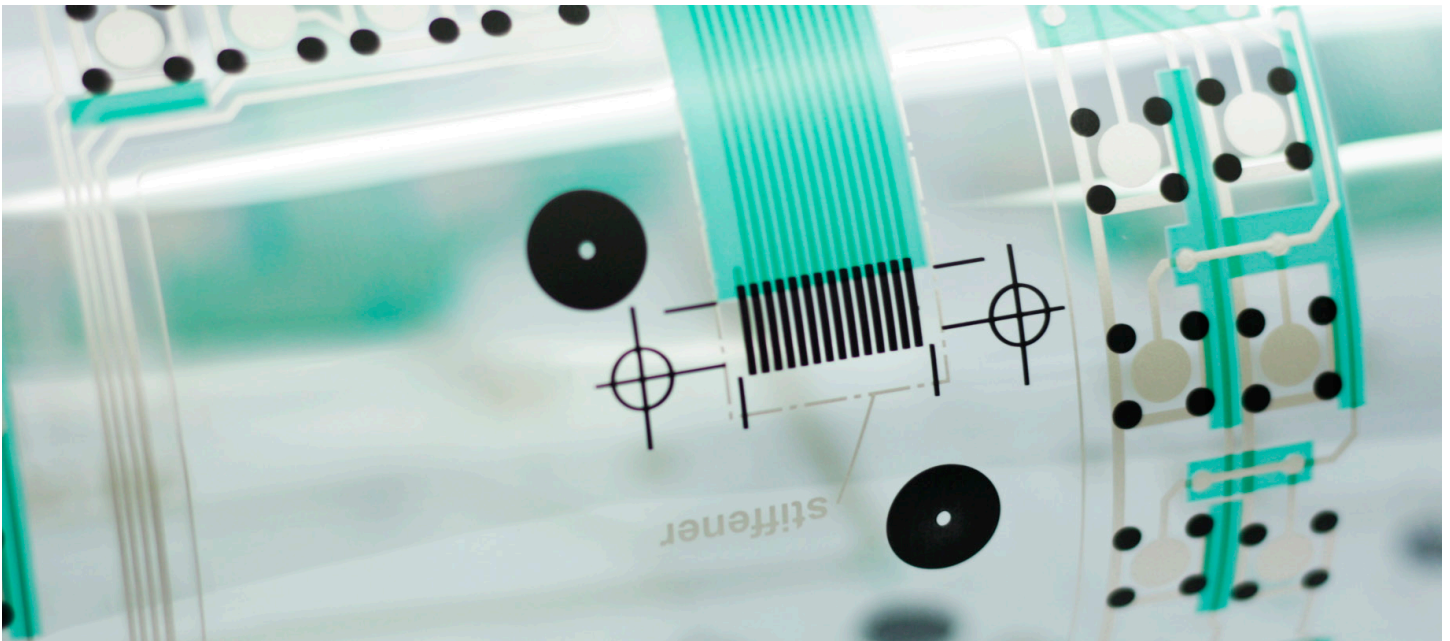


Silver Ink Flexible Circuits



The Secret in Smart, Sustainable Circuitry.

e₂ip's Silver Ink Flexible Circuits are produced using silk screening on flexible substrates (mostly PET): making them true printed circuits. They are environmentally-friendly and also represent an effective and affordable alternative to copper polyimide flexible circuits.

Traditional copper-based circuits are costly and often involve material waste during copper etching. The e₂ip technologies circuits are instead manufactured with an additive process, to minimize production costs and reduce the ecological footprint.

e₂ip technologies uses sustainable materials, in-house printing, a comprehensive range of inks and state-of-the-art equipment, to provide customers with the most tailored and complete solutions.

Applications

- Aerospace
- Medical
- Industrial
- Consumer

Key Features & Benefits

- Flexible
- Lightweight
- Cost-Effective
- Environmentally friendly

Free Up Design Space

Continued product innovations and enhancements are expected in every field. Using thin and flexible circuits will provide extra space in product design, allowing for new features and style updates.

Applications



Aerospace

Weight reduction in aerospace is critical. By integrating a thin & flexible circuit, seat controls become lighter and better adapted for curved, ergonomic seating applications.



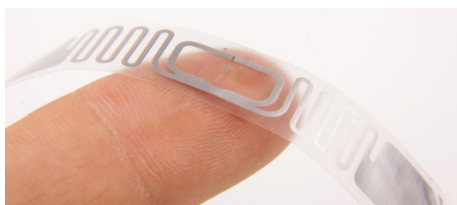
Medical

For integration into printed ECG and other disposable devices, the Silver Ink Flexible Circuits enable quality production at high volumes and were designed with patient safety and comfort in mind.



Industrial

Electronic transaction keypads require reliable technologies for banking security. Silver Ink Flexible Circuits can be specifically designed for tamper proofing to ensure protection of end-user data.

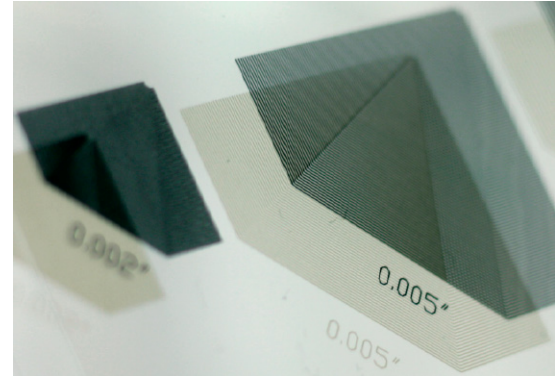


Consumer

Smart labels, wearables and home appliances also use Silver Ink Circuits. Consumer product manufacturers can maximize product flexibility and lower production costs - allowing them to meet consumer demands for affordable solutions.

Traces and Spaces

e₂ip's fine line printing capabilities can print traces as narrow as 0.005". Thinner traces are used to create more elaborate circuitry.



The following surface mount components can be soldered onto silver ink flexible circuits:

- SMD LED
- Connectors
- Metal Domes
- SMD Diodes
- SMD Resistors
- SMD Capacitors

Technical Information

Printing Process	Silk-Screen printing
Available inks	Silver flake, silver molecular, PEDOT
Substrates	Films (0.13 mm – 0.51 mm): PET (polyester), PEN, PC, Polyimide Sheets: (0.51 mm & up) PET, PEN, PC
Maximum circuit size	56 cm x 82 cm
Line width and spacing	Min 0.13 mm width / 0.13 mm spacing Recommended: 0.25 mm / 0.25 mm
Interface	Contact pads, ZIF tail and other options available on request.



**Transforming the surfaces we
touch in our everyday lives.**

For more information, speak with
a specialist at e₂ip technologies.

We're always looking forward to
hearing from you!

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