AirBorn’s flexible circuit business has provided innovative and high quality flexible printed circuit and assembly solutions to the world for over 30 years. Our roots are in applications that demand high reliability such as medical, aerospace, instrumentation and defense.

AirBorn provides early stage technical support to allow system and device designers to solve interconnect design challenges utilizing a full range of unique flex circuit attributes. Over the years, we have taken over 2,500 designs into production. As our capability evolves, in combination with our extensive experience, AirBorn will continue to offer effective flex interconnect solutions to fit our customers’ needs.

**FLEX TYPES**

- Single-sided Flex ............................ 1 layer
- Double-sided Flex ............................ 2 layers
- Multilayer Flex .............................. 3-8 layers
- Multilayer Rigid Flex ....................... 2-12 layers
- Sculptured Flex ............................. 1-3 layers
- HDEC ........................................ 1-2 layers
- Extended-Length Flex ..................... 1-2 layers [up to 100 ft long]
- Liquid Crystal Polymer [LCP] Flex ........ 1-2 layers

**DIELECTRIC MATERIALS**
- Polyimide Film ≥ 0.5 mil
- Polyester Film 1, 2, 3 mils
- Polyimide/Epoxy Glass ≥ 5 mil

**ADHESIVES**
- Acrylic ≥ 0.5 mil
- Epoxy ≥ 1 mil
- Polyester 1, 2, 3 mils

**COPPER**
- Rolled Annealed 0.5-7oz

**CONDUCTOR**
- Line Width 3 mils
- Spacing 3 mils

**ANNULAR RING**
- External PTH 2.5 mils
- Internal PTH 1 mil
- Min Drill Size 6 mils
- Aspect Ratio 12:1

**TOLERANCE**
- Product Outline Tolerance ± 3 mils

**SHIELDING**
- Copper Solid
- Copper Crosshatch Pattern
- Silver Ink Solid

**ELECTRICAL**
- Impedance Control ± 5%

**SURFACE**
- LPI Soldermask
- Bright Tin
- Solder Coat or Reflow
- Immersion Tin
- Immersion Silver
- Immersion Gold (ENIG)
- Electrolytic (Hard) Gold
- Tin/Lead
- Anti-Tarnish
- HASL (Hot Air Solder Leveling)

**STIFFENERS**
- Polyimide Film 0.5 mil or >
- Polyester Film 1 mil or >
- Polyimide/Epoxy Glass 5 mils or >

**PANEL SIZES**
- 12” x 18” Standard
- 18” x 24” Standard
- Other Non-Standard