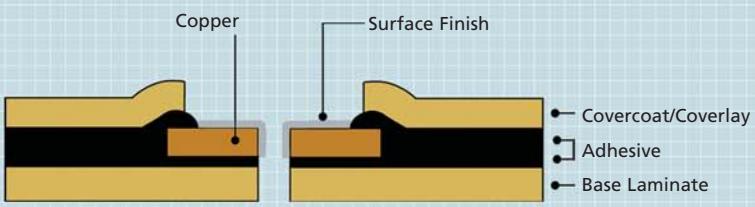
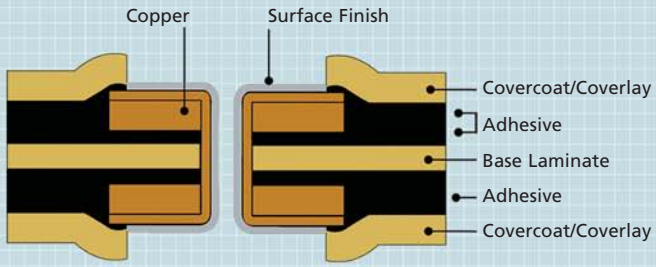
Flexible Printed Circuits

Universally adopted technology for wide ranging applications

Single-Sided Construction



Double-Sided Through-Hole-Plated



General Description

Single and double-sided flexible circuits are extremely cost effective interconnection media for low to high volume applications.

Benefits

- High reliability
- Space and mass saving
- Total repeatability
- 3-D packaging system
- Cost reduction
- Improved current carrying capability
- Improved heat dissipation
- Light weight
- Mechanical strength
- Excellent in dynamic applications

Materials / Applications

- Polyester - a low cost dielectric film. Lower temperature performance capability, solderable with care. Automotive, communication, consumer and similar highly cost conscious applications.
- Polyethylene naphthalate (PEN) - an intermediate cost and performance option which can be soldered using conventional tin / lead alloys. Automotive, communication, consumer, computer and other applications.
- Polyimide - high reliability, high performance material with good thermal and mechanical properties. Numerous applications from automotive to aerospace.
- EMI/RFI and cross-talk shielding can be achieved by the use of silver loaded polymer or cross-hatched copper screen layers.
- Surface finishes – tin / lead, nickel / gold, immersion gold, immersion tin, immersion silver and OSP.

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