

CHEMTRONICS

Technical Data Sheet

TDS # CW2900

CircuitWorks® Flex Conductive Pen

PRODUCT DESCRIPTION

CircuitWorks® Flex Conductive Pen makes instant highly adherent silver traces on flexible polymeric substrates used in flexible circuitry. CW2900 is used in prototype, rework and repair of Mylar®, Melinex®, and other flexible circuits by linking components, repairing defective traces, and making smooth jumpers. The Flex Conductive Pen traces also have excellent adherence to Indium Tin Oxide (ITO) substrates. The silver traces dry in minutes and have excellent mechanical properties.

- Single component system
- Highly adherent/flexible polymer
- Fast drying
- Excellent electrical conductivity
- Operating temperature to 212°F (100°C)

TYPICAL APPLICATIONS

CircuitWorks® Flex Conductive Pen may be used for electronics applications including:

- Circuit Trace Repair
- Solderless Linking of Components
- EMI Shielding
- Grounding
- Quick Prototype Modifications

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Composition

Material	Silver Filled Polymer
Silver Particle Size	< 20 microns
Color	Silver Gray

Properties

Conductivity	0.05-0.15 ohms/sq/mil
Max. Temperature	212°F (100°C)
Tack-Free Time @ 25°C	5 minutes
Initial Cure Time @ 25°C	1 hour
Cure Time @ 80°C	15 minutes
Electrical Conductivity	Excellent
Tape Adhesion	Excellent
Flexibility	Excellent
Chemical Resistance	Very Good

RoHS Compliant

Shelf life	12 months @ 25 °C
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COMPATIBILITY

CircuitWorks® Flex Conductive Pen material has excellent compatibility with materials used in flexible circuit board fabrication. As with any chemical system, compatibility with the substrate must be determined on a non-critical area prior to use.

