# CONDUCTIVE SILVER PEN

# STANDARD TIP

Use the Conductive Pen to draw precise, highly conductive silver traces, jumpers and shielding. The quick drying, tough, and durable acrylic base is pigmented with high purity silver. Draw on conductive silver pathways, repair damaged circuit traces and apply smooth jumpers in electronic applications. The Conductive Pen *dries at room temperature*, or can be heat cured for maximum performance. Air dried, it's ideal for electronic prototyping, manufacturing and repair applications where heat curing is not desirable.Safe for use with common circuit materials, the Conductive Pen can be applied over metal, glass, solder mask, and both rigid and flexible surfaces. The silver content also provides superior corrosion resistance.

**COMPOSITION PROPERTIES**

Assay..... 45-50% Silver
Silver Particle Size.....<10 Microns
Setting Rate.....<2 mm/Hr
Thinner.....Butyl Acetate

**CURED PROPERTIES**

Resistivity.....0.2 Ohms x Mil
Adhesion.....Excellent to good
Solder Wetting.....2-3 Seconds
Solder Leach Wetting.....<5 Seconds

**OTHER INFORMATION**

Trace Width.....1/32” (min); 1/16” (average)
Dry Time.....10 min. at room temperature
Fill.....8.5 grams
Shelf Life.....Six months from first use. About 18 months unopened.
Soldering.....350°F (176°C) for <5 seconds after heat cure. Use low temperature soldering iron for best results. Hand soldering at higher temperatures is not recommended.

**DISTRIBUTED BY**

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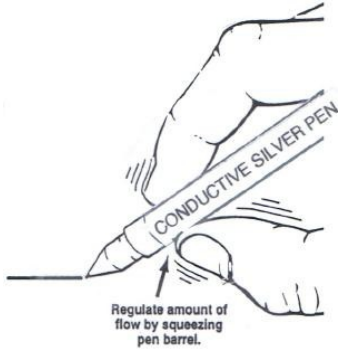
**Rockville, MD 20855**
**www.semicro.org**

**INSTRUCTIONS:**

1. Make sure the surface to be repaired is clean and free of oil.
2. Shake the pen VIGOROUSLY for 20-30 seconds to mix the conductor. Note the pen's internal shaker assists in mixing the silver particles.
3. Press the pen lightly against the surface to be repaired. Squeeze the pen barrel firmly to start and then regulate the conductor's flow. Practice with the pen before working on the repair. If clogged, remove white pen tip by turning it clockwise, and clean.
4. Allow to dry for about ten minutes. Air cure conductivity is reached in 20-30 minutes. Heat cure in 3-5 minutes at 250-300°F (121-148°C) for maximum conductivity.
5. Wipe pen tip clean after use.




**WARNING:** FLAMMABLE. Keep away from sparks or open flame. DO NOT TAKE INTERNALLY. Avoid prolonged breathing of vapor. Use only in well ventilated area. HARMFUL OR FATAL IF SWALLOWED. Material Safety Data Sheets (MSDS) are available on request or at www.semicro.org.

**KEEP OUT OF REACH OF CHILDREN**