

RoHS  
Compliant



## Description

This pen dispenses an acrylic lacquer pigmented with conductive nickel flakes. The cured traces are durable and corrosion resistant. They adhere well to plastics and most electronic substrates. The traces are flexible, but the product works best on a smooth, flat, hard surface. The valve tip opens when pressed against the surface, and the flow is controlled by squeezing the barrel.

This pen repairs damaged traces on keyboards, game controllers, remote controls, mixing boards, and PCBs. It also creates conductive traces for prototyping, hobbies, or maker projects. It is great for making small connections in or between circuits, such as jumpers, through-holes, bridges, and links. It can also be used to increase the surface area of contacts by painting the area around them.

For applications requiring lower resistance, use the Silver Conductive Pen. For a more economical alternative, use the Carbon Conductive Pen.

## Features and Benefits

- Creates durable, reliable and conductive traces
- Typical trace width: 1.5mm to 2.0mm
- Dries in 1 minute at room temperature
- Strong corrosion resistance
- Does not contain toluene, xylene, or MEK

## Uncured Properties

Viscosity @ 25°C	: 160 cP
Density	: 1.51 g/mL
Percent Solids	: 57%
Shelf Life	: 2 y
Calculated VOC	: 337 g/L

## Application Instructions

1. Shake pen vigorously until ball moves freely inside.
2. Hold pen at an angle and depress tip against surface.
3. Draw pen across surface while gently squeezing barrel.
4. Let dry 1 min before handling or heat cure.
5. Clean tip, replace cap and store tip up after use.

## Cured Properties

Resistivity	: $4 \times 10^{-3} \Omega \cdot \text{cm}$
Service Temperature Range	: -40°C to 120°C

## Usage Parameters

Dry To Touch	: 1 min
Cure Times	: 24h @ 22°C 30min @ 65°C
Approximate Linear Coverage	: 30 m

## Cure Instructions

Allow to dry at room temperature for 24 hours, or after letting sit for 1 min, cure the coating in an oven for 30 minutes @ 65°C.

## Storage and Handling

Store between -5 and 22°C in a dry area.

## Part Number Table

Description	Part Number
Conductive Pen, Nickel, 5mL	MP014033

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