

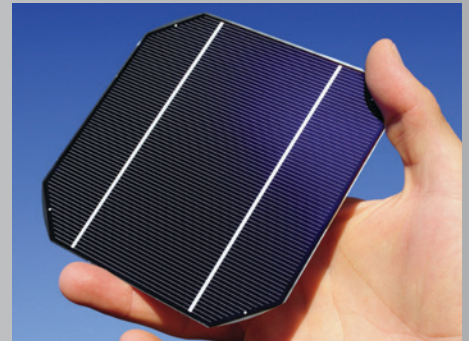
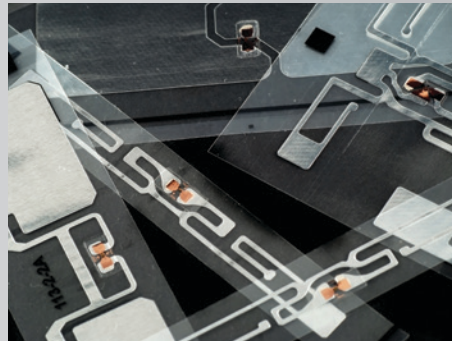


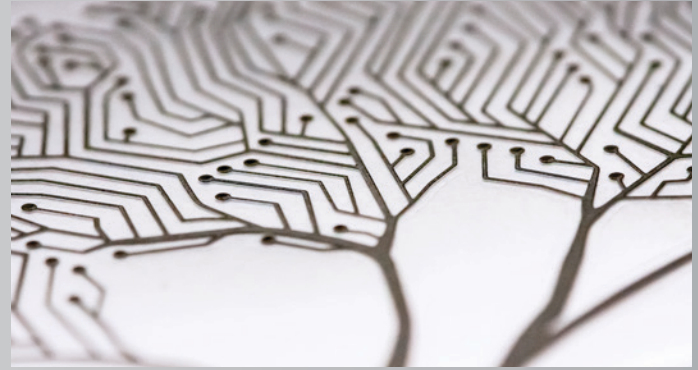
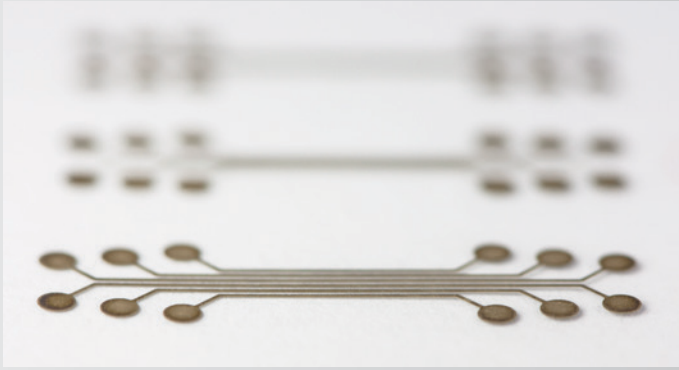
## LOCTITE® ECI 1006 E&C

**HALOGEN-FREE, ELECTRICALLY CONDUCTIVE INK WITH FINE-LINE PRINTING CAPABILITIES**



Henkel's latest conductive ink innovation, LOCTITE® ECI 1006 E&C, is a fine-line, screen-printable electrically conductive ink ideal for touch-screen and other applications where fine feature printing is required. High resolution printability and good conductivity are the cornerstones of this material, which delivers excellent adhesion to indium-tin oxide (ITO), etched ITO and polyethylene (PET). The fine-line capability and electrical conductivity make *LOCTITE* ECI 1006 E&C well-suited for touch-screen manufacture, in addition to RFID, photovoltaic, membrane switch and flexible circuit applications.





## Key Benefits and Applications

PRODUCT	DESCRIPTION	APPLICATIONS	KEY BENEFITS
<b>LOCTITE ECI 1006 E&amp;C</b>	Halogen-free, silver-filled printable ink, with fine-line printing capabilities	<ul style="list-style-type: none"> <li>• Busbar support for ITO films</li> <li>• Membrane switches</li> <li>• Digitizers</li> <li>• Flexible circuits</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent fine-line and high resolution printability</li> <li>• 50 µm lines and spaces attainable</li> <li>• Excellent adhesion to sputtered ITO and PET</li> <li>• Good electrical conductivity</li> <li>• High aspect ratio with minimal slump</li> </ul>

## Markets Served

- Touch-Screens
- RFID (Radio Frequency Identification)
- Photovoltaic (Solar)

TYPICAL PROPERTIES OF UNCURED MATERIAL	
Solids Content, TGA (%)	71
Density (g/cc)	2.45
Viscosity (cP at 10 s <sup>-1</sup> )	75,000
Shelf Life at 25°C (days)	365
Flash Point (°C)	100
TYPICAL CURING PERFORMANCE	
Recommended Drying Cycle at 130°C (min.)	20

## DISPLAY TOUCH-SCREEN PRODUCT APPLICATION

Henkel offers conductive inks with varying levels of conductivity to meet production requirements.

### LOCTITE NCI 9001 E&C

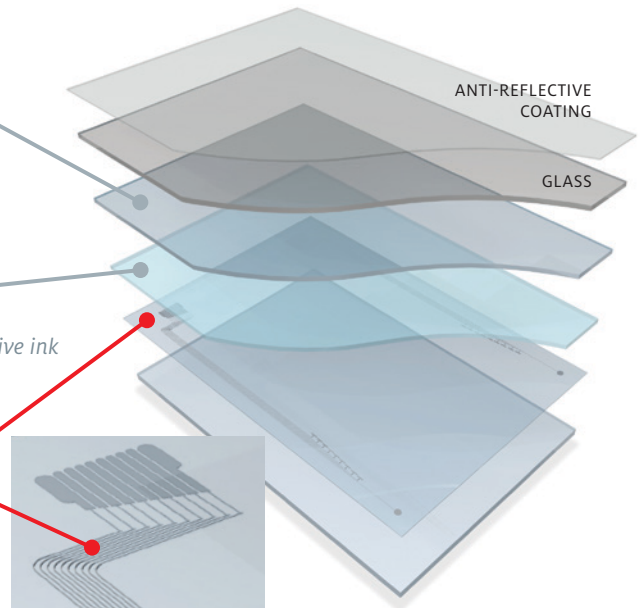
Protective overcoat dielectric ink

### LOCTITE ECI 5000 E&C Series

Transparent conductive ink

### LOCTITE ECI 1006 E&C

Fine-line silver ink



**Across the Board,  
Around the Globe.**  
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