Technical Data Sheet

LOCTITE® ECI 1216 E&C

July 2026

PRODUCT DESCRIPTION

LOCTITE® ECI 1216 E&C provides the following product characteristics:

Technology	Solvent based ink
Appearance	Silver liquid
Filler type	Silver
Product benefits	• High conductivity • Excellent adhesion • Suitable for pad printing • Low temperature drying
Cure	Heat dry
Application	Inks and coatings, Electrically conductive ink
Typical application(s)	Pad printable circuit
Key substrates	PC, LPA, PA+GF

LOCTITE® ECI 1216 E&C is a grey conductive ink designed for pad printable conductive tracks. The ink is heat-cured and offers excellent adhesion on to PC, LPA, PA+GF.

LOCTITE® ECI 1216 E&C is specially designed for pad printing of highly conductive antenna structures.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield, mPa.s (cP): @ 20 s^{-1}	3,000
Solids at 200°C, %	80±2

TYPICAL DRYING PERFORMANCE

Recommended drying cycle
120 min @ 90 to 95°C

LOCTITE® ECI 1216 E&C is a low temperature processing material which builds up conductivity in time at 80 to 120°C. Higher drying temperature will give better conductivity and abrasion resistance on the substrate.

LOCTITE® ECI 1216 E&C can be dried with forced air or infrared systems. Higher temperatures for longer time will improve the performance. Design drying rates for the maximum the substrate and production speeds can tolerate. Too much energy can destroy the coating. Design drying rates for the maximum the substrate and production speeds can tolerate.

The above cure profiles are guideline recommendations.
Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical properties

Adhesion on PA substrates	
Cross Hatch Grade	5B

Electrical properties

Resistivity, after 120 mins @ 90°C, Ω/□/25µm	<0,008

GENERAL INFORMATION

Please consult the Safety Data Sheet (SDS) for safe handling information of this product.

DIRECTIONS FOR USE

1. Surface preparation
- Keep surface clean before use to avoid possible contamination.

2. Mixing/Dilution
- Stir to ensure homogeneity before use.
- Avoid rapid stirring, as this causes air entrapment.

3. Clean up
- The equipment can be cleaned with ethanol.

LOCTITE® ECI 1216 E&C is a low temperature processing paste which build up conductivity in time at 80-120°C. Higher curing temp will give better conductivity and abrasion resistance on substrate.

STORAGE

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal storage: -20°C. Storage above -20°C can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel representative.

Not for product specifications
The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on the specifications of this product.

Conversions
(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

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