



# IPC-TM-650 TEST METHODS MANUAL

**1 Scope** This test method is used to determine the adhesion quality of marking paints and inks on the laminate surface and/or metal surfaces of finished PWBs.

## 2 Applicable Documents

**Federal Specification A-A-113** Tape, Pressure Sensitive Adhesive

## 3 Test specimen

**3.1** Any finished PWB having the marking under test applied to its surface. A minimum of three tests should be performed for each evaluation.

## 4 Equipment/Apparatus

**4.1 Tape** A roll of pressure sensitive tape 3M Brand 600 13 mm wide, or a tape as described in CEDAA-1 13, Type 1 Class 3, except that the tape may be clear

## 5 Procedure

### 5.1 Test

Number <b>2.4.1.1</b>	
Subject <b>Adhesion, Marking Paints and Inks</b>	
Date <b>11/88</b>	Revision <b>Revision B</b>
Originating Task Group <b>N/A</b>	

**5.1.1** Press a strip of pressure sensitive tape 13 mm wide and 5 cm long firmly across the surface of the board, covering the marking on both the laminate and metal conductors.

**5.1.2** Rapidly remove the tape by manual force applied approximately perpendicular to the markings and board surface. Fresh tape must be used each time.

## 5.2 Evaluation

**5.2.1** Visually examine the tape and specimen for evidence of any portion of the markings having come off the surface of the board, as evidenced by particles of markings adhering to the tape.

## 6 Notes

**6.1** Failure of the marking to properly adhere to either the laminate or metal conductors constitutes a failure of the test.