



IPC-TM-650 TEST METHODS MANUAL

1 Scope This method is used to determine the mechanical and electrical behavior of flexible printed wiring materials after exposure to two cycles of folding.

2 Applicable Documents None

3 Test Specimen

3.1 A random sample of the flexible material at least 61 cm long by the width

4 Apparatus

4.1 Two metal plates, the upper plate having sufficient weight to apply 206 KPa to the specimen, as calculated from the length of fold and width of specimens

4.2 Electrical test equipment to measure continuity and dielectric strength after cycling

Number 2.4.5	
Subject Folding Endurance, Flexible Printed Wiring Materials	
Date 4/73	Revision
Originating Task Group N/A	

5 Procedure

5.1 Test

5.1.1 Fold the specimen 180° transversely along a 45° angle to the conductors and press between two metal plates with a pressure of 206 KPa for 15 minutes.

5.1.2 Unfold specimen and reapply pressure for another 15 minutes.

5.1.3 Repeat cycle one more time.

5.2 Evaluation After the two complete cycles, examine specimen for separation, cracks, discontinuity or breaks, and perform an electrical test.