The Institute for Interconnecting and Packaging Electronic Circuits
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IPC-TM-650
TEST METHODS MANUAL

Number	
2.2.15	
Subject	
Cable Dimensions (Flat Cable)	
Date	Revision
6/79	
Originating Task Group	
N/A	

1 Scope This method describes the measuring technique used to measure the physical dimensions of flexible flat cable.

2 Applicable Document None

3 Test Specimen

3.1 The number of production samples shall be determined by the manufacturer and/or user, and as a minimum shall be three samples.

3.2 The test specimen shall be a minimum of 3 m.

4 Apparatus

4.1 Toolmakers microscope calibrated to 0.0001, or equivalent

4.2 Flange micrometer calibrated to 0.0001, or equivalent

4.3 Gauge blocks

5 Procedure

5.1 Prepare test specimens from Section 3 by cutting perpendicular to the edge across the full width of the cable using a paper cutter or other suitable cutter. A minimum of five random cuts are to be made per 3 m sample, resulting in six cable segments.

5.2 Measure cable thickness using apparatus from 4.2. Measurements shall be made across the full width of the cut edge of each cable segment.

5.3 Fixture each cable segment between two parallel gauge blocks, which are longer than the segment is wide. Cut edge of cable must be flush with surface ''A'' of the gauge blocks. All remaining dimensions are to be measured with the apparatus from 4.1. One edge of each of the segments is to be measured (see Figure 1).

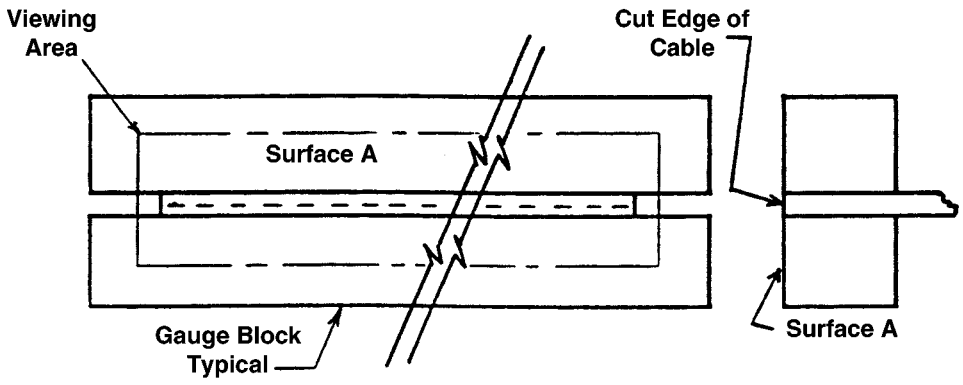

Figure 1 Gauge Blocks and Test Specimen Example