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

Number	
2.5.24	
Subject	
Conductor Resistance, Flexible Flat Cable	
Date	Revision
6/79	
Originating Task Group	

1 Scope This method describes the test procedure required to measure the conductor resistance of flexible flat cable.

2 Applicable Documents None

3 Test Specimen

3.1 The number of production samples and length should be determined by the manufacturer and/or user and shall be a minimum of one sample with a minimum length of 3 m.

4 Apparatus

4.1 Kelvin Bridge or other suitable instrument

5 Procedure

5.1 The flat cable specimen shall be stripped at each end to expose the conductors. A minimum of three or 10% of the total number of conductors (whichever is the greater) shall be tested. The location of the conductors tested shall include some conductors at the edges and central areas of the cable.

5.2 The individual conductors shall be tested using the apparatus in 4.1 at 20°C ± 3°C. Conductors shall be tested at the minimum current value consistent with the instrument used. The attachment of the test apparatus terminals shall be such as to establish a specific cable length used for resistance calculations.

5.3 Evaluation Using the determined specific cable length, calculate the resistance in ohms per 304 m of length and compare to values specified in the appropriate document.