



IPC-TM-650 TEST METHODS MANUAL

1 Scope This test method describes the test procedure required to measure the dielectric strength 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. As a minimum, one sample of at least 3 m should be tested.

4 Apparatus

4.1 A suitable container in which the specimen may be immersed in water

4.2 A power source capable of the specified potential

5 Procedure

5.1 Prepare the specimen by commoning all of the conductors together and sealing the other end in dielectric wax.

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Subject Dielectric Withstand Voltage Flexible Fat Cable	
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5.2 Immerse the specimen, with both ends out of the water, for a minimum of four hours.

5.3 The water is to provide one polarity of the specified potential and the commoned conductors the other polarity. Potential is to be increased at a uniform rate of 500V/sec until the test voltage is reached or until breakdown occurs.

5.4 The specimen should also be tested conductor-to-conductor at the specified potential by separating every other conductor to one side or the other and attaching the test leads.

5.5 All test voltage is to be held for one minute.

6 Notes

6.1 There shall be no failures.