

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10810-50 (1984): Methods of test for cables, Part 50:
Bending test [ETD 9: Power Cables]



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“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

METHODS OF TEST FOR CABLES

PART 50 BENDING TEST

1. Scope — Prescribes the method for carrying out bending test on cables.

Note — Normally bending test, by itself, is not a complete test and to assess the effect of bending, apart from visual examination, this test is followed by other test(s) as prescribed in relevant specification.

2. Significance — All electric cables are subjected to bending operations during handling and installation. The minimum radii are specified in the relevant specifications. In order to ensure that the cables withstand, without damage or showing any cracking of the sheaths, the recommended bending radii during installation and handling, it is necessary to conduct a bending test which is more rigorous than what the cable is likely to be subjected to in actual practice.

3. Terminology

3.1 Bending — Operation of winding, unwinding, winding in reverse and unwinding of the cable on test cylinder having predetermined diameter depending on type and diameter of the cable.

4. Apparatus

4.1 Test Cylinder — Having diameter as specified in relevant specification.

4.2 Vernier Calliper — Least count 0.01 mm.

5. Material — No material other than the specimen is required for performing this test.

6. Test Specimen — A sufficient length of cable with open ends to give at least one complete turn round the test cylinder.

6.2 Number of Specimens — One.

7. Conditioning — No pre-conditioning of specimen is required.

8. Test Procedure

8.1 The cable sample shall undergo, at ambient temperature, 3 bending cycles, each cycle shall consist of winding the cable sample on the test cylinder, unwinding, winding on again in the reverse direction and unwinding. The bending shall be carried out at a reasonably uniform speed between 15 and 30 seconds per half cycle.

8.2 After the above operation the specimen shall be subjected to visual examination and other test(s) as specified in individual specification.

9. Tabulation of Observations

Sample No.	Description of Sample	Over all Diameter of Cable mm	Test Cylinder Diameter mm	Visual Observations	Results of Subsequent Tests (in Accordance with Relevant Specification)

Adopted 14 March 1984

© September 1985, ISI

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IS : 10810 (Part 50) - 1984

10. Calculation — No calculation is involved.

11. Report

11.1 Reference Specification _____

[illegible]

11.2 Conclusion— Specimen meets/does not meet the requirement of the specification.