

BUREAU OF INDIAN STANDARDS
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मसौदा भारतीय मानक
समाक्ष संचार केबल
भाग 1- इलैक्ट्रिकल परीक्षण विधियाँ परीक्षण
अनुभाग-105 केबल के वोल्टेज को झेलने के लिए परीक्षण
डाइइलेक्ट्रिक
(पहला पुनरीक्षण)

Draft Indian Standard
Coaxial Communication Cables
Part 1- Electrical Test Methods
Section – 105 Test for Withstand Voltage of Cable
Dielectric
(First Revision)

ICS 33.120.10

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NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard (Part 1/Section 5) (First Revision) which is identical with IEC 61196-1-105: 2024 ‘Coaxial communication cables – Part 1-105: Electrical test methods – Test for withstand voltage of cable dielectric’ issued by the International Electrotechnical Commission (IEC) *will be* adopted by the Bureau of Indian Standards on the recommendation of Wires, Cables, Waveguides and Accessories Sectional Committee and approval of the Electronics and Information Technology Division Council.

This standard was originally published in 2011 and was identical with IEC 61196-1-105: 2005. The first revision of this Indian Standard has been under taken up to align it with the latest version of IEC 61196-1-105: 2024.

This second edition cancels and replaces the first edition published in 2005. This edition constitutes a technical revision. This edition includes the following significant technical change with respect to the previous edition:

- a) The scope provides indication on the specific area concerned.
- b) The test equipment is updated.
- c) The rate of increase of the test voltage has been changed.
- d) The leakage current has been taken into consideration in the test report and requirements.
- e) The test procedures for the cables with special structure are specified in Annex A.

The text of IEC Standard *may be* approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appears referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

International Standards	Corresponding Indian Standards	Degree of Equivalence
IEC 61196-1, Coaxial communication cables – Part 1: Generic specification – General, definitions and requirements	IS/IEC 61196-1: 2005, Coaxial communication cables: Part 1 generic specification - General, definitions and requirements	Identical with IEC 61196-1: 2005

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:2022 'Rules for rounding off numerical values (*Second Revision*)'. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

SCOPE OF IEC 61196-1-105: 2024

“This part of IEC 61196 applies to coaxial communication cables. It specifies test methods for determining the withstand voltage of the dielectric of coaxial cables. It is intended to detect the flaws in the dielectric of finished coaxial cables.

The test procedures for the cables with special structure are specified in Annex A”.

Note: - The Technical content of this document has not been enclosed as these are identical with the corresponding IEC Standard. For details, please refer to IEC 61196-1-105: 2024 or kindly contact.

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