

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

**Coaxial communication cables –
Part 1-108: Electrical test methods – Test for characteristic
impedance, phase and group delay, electrical length and
propagation velocity
(First Revision)**

मसौदा भारतीय मानक

समाक्ष संचार केबल –

**भाग 1-108: इलैक्ट्रिकल परीक्षण विधियाँ - सरचना प्रतिबाधा, फेज और
ग्रुप विलम्ब, विद्युतीय लम्बाई और संचारित वेग के लिए परीक्षण
(पहला पुनरीक्षण)**

ICS 33.120.10

Wires, Cables, Waveguides & Accessories
Sectional Committee, LITD 06

Last Date for Comments: 30 May 2024

NATIONAL FOREWORD

(Formal clauses will be added later)

This preliminary draft Indian Standard (Part 1/Sec 108) (Second Revision) which is identical with IEC 61196-1-108: 2011 'Coaxial communication cables – Part 1-108: Electrical test methods – Test for characteristic impedance, phase and group delay, electrical length and propagation velocity'

issued by the International Electrotechnical Commission (IEC) *will be* adopted by the Bureau of Indian Standards on the recommendations of the Dependability of Electronic, Electrical Components, Equipment and Systems Sectional Committee and approval of the Electronics and Information Technology Division Council.

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

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard', and
- 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 draft adopted standard, reference appears to the following International Standard for which Indian Standard also exists. The corresponding Indian Standard which is to be substituted in its place is listed below along with its degree of equivalence for the edition indicated:

<i>International Standards</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 61196-1:2005, 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
IEC 61196-1-103, Coaxial communication cables – Part 1-103: Electrical test methods – Test for capacitance of cable	Doc. No.: LITD 06 (25559) (<i>Under Development</i>) IS/IEC 61196-1-103 : 2005 Coaxial communication cables — Part 1-103: Electrical test methods — Test for capacitance of cable	Identical with IEC 61196-1-103 : 2005

Scope of IEC 61196-1-108: 2011 is as follows:

This part of IEC 61196 applies to coaxial communications cables. It specifies test methods for determining the characteristic impedance, phase and group delay, electrical length and propagation velocity of coaxial cables for use in telecommunications networks.

A procedure to measure phase dispersion of coaxial cable is included as 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 IEC 61196-1-108: 2011 or kindly contact.

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.

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