Doc. No.: LITD 06 (25572) Draft IS/IEC 61196-1-108: 2011 June 2024

BUREAU OF INDIAN STANDARDS

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Draft Indian Standard

Coaxial Communication Cables – Part 1: Electrical Test Methods – Section 108: Test for Characteristic Impedance, Phase and Group Delay, Electrical Length and Propagation Velocity (First Revision)

मसौदा भारतीय मानक

समाक्ष संचार केबल – भाग 1: इलैक्ट्रिकल परीक्षण विधियाँ – अनुभाग 108: सरंचना प्रतिबाधा, फेज और ग्रुप विलम्ब, विद्युतीय लम्बाई और संचारित वेग के लिए परीक्षण *(पहला पुनरीक्षण*)

ICS 33.120.10

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Wires, Cables, Waveguides & AccessoriesLast Date for Comments: 10 August 2024Sectional Committee, LITD 06

NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard (Part 1/Sec 108) (First 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 Wires, Cables, Waveguides & Accessories Sectional Committee and approval of the Electronics and Information Technology Division Council.

This standard was originally published in 2012 and was identical with IEC 61196-1-108: 2005. The first revision of the Indian Standard has been under taken up to align it with the latest version of IEC 61196-1-108:2011.

The main changes to the previous edition is the enclosing of Annex A describing the measurement of phase dispersion.

The text of IEC Standard *will be* 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. 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 Standard	Degree of Equivalence
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	IS/IEC 61196-1-103 : 2005 Coaxial communication cables — Part 1-103: Electrical test methods — Test for capacitance of cable (Under Development as Doc. No.: LITD 06/25559)	Identical with IEC 61196-1-103 : 2005

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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 61196-1-108: 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."

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: 2011or kindly contact.

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