

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Coaxial communication cables –  
Part 1-206: Environmental test methods – Climatic sequence**

**Câbles coaxiaux de communication –  
Partie 1-206: Méthodes d’essai d’environnement – Séquence climatique**





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65 000 entrées terminologiques électrotechniques, en anglais et en français, extraites des articles Termes et Définitions des publications IEC parues depuis 2002. Plus certaines entrées antérieures extraites des publications des CE 37, 77, 86 et CISPR de l'IEC.

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**COAXIAL COMMUNICATION CABLES –****Part 1-206: Environmental test methods –  
Climatic sequence**

## FOREWORD

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International Standard IEC 61196-1-206 has been prepared by subcommittee 46A: Coaxial cables, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories.

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 changes with respect to the previous edition: it utilizes the test method of IEC 60068-2-61: *Environmental Testing – Part 2-61: Test methods – Test Z/ABDM: Climatic sequence*, which replaces the thermal cycle test.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
46A/1338/FDIS	46A/1349/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 61196 series, published under the general title *Coaxial communication cables*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

# COAXIAL COMMUNICATION CABLES –

## Part 1-206: Environmental test methods – Climatic sequence

### 1 Scope

This part of IEC 61196 specifies the method of test to determine the stability of transmission performance of a finished RF coaxial cable when subjected to a set of temperatures, temperature changes, and humidity stresses that would accelerate exposures observed in storage and transportation.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-2-1, *Environmental testing – Part 2-1: Tests – Test A: Cold*

IEC 60068-2-30, *Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)*

IEC 60068-2-61, *Environmental testing – Part 2-61: Test methods – Test Z/ABDM: Climatic sequence*

IEC 61196-1, *Coaxial communication cables – Part 1: Generic specification – General, definitions and requirements*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61196-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 4 Test sample

The length of the cable under test (CUT) shall be of sufficient length as indicated in the sectional or the detail specification to achieve the desired accuracy.

In order to gain reproducible values, it may be necessary for the CUT to be brought into the climatic chamber as a loose coil or on a reel, depending on the installation practice.

The ends of the cable shall be terminated with a suitable connector to enable the specified RF transmission performance.