

# INTERNATIONAL STANDARD

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**Coaxial communication cables –  
Part 1-215: Environmental test methods – High temperature cable ageing**





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High temperature cable ageing****FOREWORD**

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International Standard IEC 61196-1-215 has been prepared by subcommittee 46A: Coaxial cables, of IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

The text of this standard is based on the following documents:

FDIS	Report on voting
46A/1297/FDIS	46A/1300/RVD

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

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

A list of all the 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 publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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- withdrawn,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

A bilingual version of this publication may be issued at a later date.

# COAXIAL COMMUNICATION CABLES –

## Part 1-215: Environmental test methods – High temperature cable ageing

### 1 Scope

This part of IEC 61196 defines a thermal ageing test to evaluate the transmission performance of coaxial cables under the effects of material temperature ageing.

This procedure specifies a qualitative thermal ageing test that evaluates the performance degradation of the cable due to chemical and physical reactions that are accelerated by high temperature.

Information on acceleration life testing is provided in Annex A.

### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050 (all parts), *International Electrotechnical Vocabulary* (available at [www.electropedia.org](http://www.electropedia.org))

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

IEC 60068-2-2, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050 and IEC 61196-1 apply.

### 4 Method

#### 4.1 General

The allowable RF transmission performance characteristics and mechanical pass and fail criteria shall be specified in the detail specification.

RF performance shall consider the allowable change in the following characteristics:

- a) insertion loss,
- b) return loss, and/or
- c) passive intermodulation, RF-leakage, time delay or impedance.