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Coaxial communication cables –
Part 1-200: Environmental test methods – General requirements

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CONTENTS

FOREWORD 3
1 Scope 5
2 Normative references 5
3 Terms and definitions 5
4 Sampling 5
4.1 Cable under test (CUT) 5
4.2 Pre-conditioning 5
5 Tests 6
6 Test conditions 6
6.1 Ambient conditions 6
6.2 Tolerance on temperature values 6
7 Equipment calibration 6
8 Test report 6
Annex A (informative) Environmental test methods of the IEC 61196-1-2xx series 7

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COAXIAL COMMUNICATION CABLES –

Part 1-200: Environmental test methods – General requirements

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This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 61196-1-200:2014. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

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IEC 61196-1-200 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. It is an International Standard.

This third edition cancels and replaces the second edition published in 2014. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) Update of Annex A.

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

Draft	Report on voting
46A/1544/FDIS	46A/1555/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

This International Standard is to be used in conjunction with IEC 61196-1. It is based on the second edition (2005) of that document.

A list of all parts of the IEC 61196 series, 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 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.

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COAXIAL COMMUNICATION CABLES –

Part 1-200: Environmental test methods – General requirements

1 Scope

This part of IEC 61196 gives the general requirements and conditions for environmental tests to be performed on coaxial communication cables and applies to the IEC 61196-1-2xx series, which specifies environmental test methods for coaxial communication cables.

Further test details (e.g. temperature, duration) and/or test requirements ~~may~~ can be given in the relevant test procedure and/or the relevant sectional or detail specification.

A table with environmental test methods of the IEC 61196-1-2xx series is given in Annex A.

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 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 Sampling

4.1 Cable under test (CUT)

Unless otherwise specified in the relevant test method, the length of the CUT shall be selected to take into account the dynamic range of the measuring equipment to yield the required level of accuracy. The length should be measured with an accuracy better than 1 % unless otherwise stated in the relevant cable specification.

4.2 Pre-conditioning

The CUT shall be pre-conditioned at a constant ambient temperature for such time as to allow the specimen temperature to stabilize according to 6.1.

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5 Tests

The tests required and performance characteristics applicable to each type of cable are given in the relevant cable standard.

6 Test conditions

6.1 Ambient conditions

Tests shall be made at:

– temperature: 15 °C to 35 °C,
– relative humidity: 25 % to 75 % (no condensation),
– air pressure: 86 kPa to 106 kPa,

unless otherwise specified.

6.2 Tolerance on temperature values

Unless otherwise specified in the relevant specification, the tolerance on temperature shall be ±2 °C.

7 Equipment calibration

Equipment calibration shall be considered as part of the quality system.

8 Test report

The test report shall include the measurement results and the actual measuring conditions with their maximum deviations.

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