



EDC6 (2617) DTZS
IEC 61196-1-200:2022

DRAFT TANZANIA STANDARD

(Draft for comments only)

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

TANZANIA BUREAU OF STANDARDS

1 National Foreword

This draft Tanzania Standard is being prepared by the Telecommunications and Information Technology Technical Committee, under the supervision of the Electrotechnical divisional standards committee (EDC)

This draft Tanzania Standard is an adoption of the International Standard **IEC 61196-200:2022** Coaxial communication cables - Part 1-200: Environmental test methods - General requirements, Which has been prepared by the International Electrotechnical Commission

2 Terminology and conventions

Some terminologies and certain conventions are not identical with those used in Tanzania standards; attention is drawn especially to the following: -

- 1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use “full point” on the baseline as the decimal marker.
- 2) Where the words “International Standard(s)” appear, referring to this standard they should read “Tanzania Standard(s)”.

Draft for stakeholders' comments only



IEC 61196-1-200

Edition 3.0 2022-02
REDLINE VERSION

INTERNATIONAL STANDARD



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

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COAXIAL COMMUNICATION CABLES –

Part 1-200: Environmental test methods – General requirements

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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.

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.

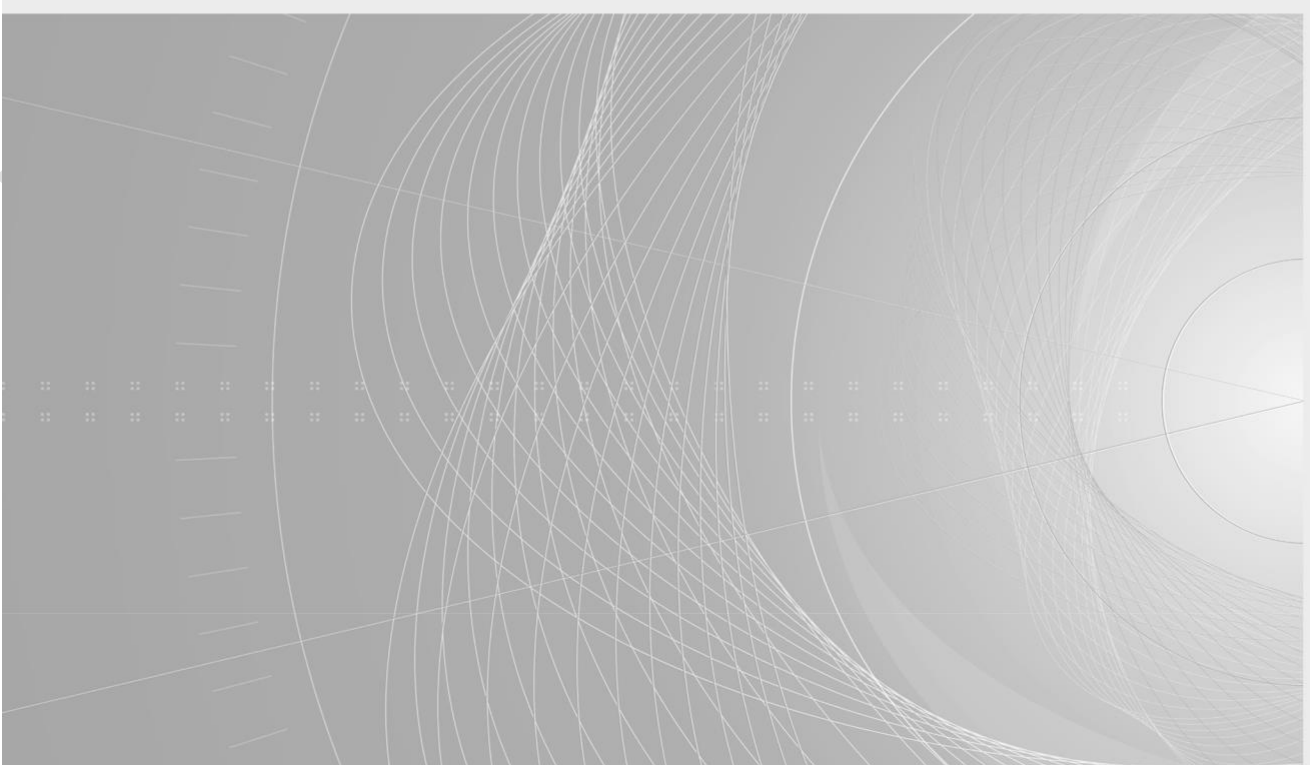
INTERNATIONAL STANDARD

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

**Câbles coaxiaux de communication –
Partie 1-200: Méthodes d’essai d’environnement – Exigences générales**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

CÂBLES COAXIAUX DE COMMUNICATION –

Partie 1-200: Méthodes d'essai d'environnement – Exigences générales

AVANT-PROPOS

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- 9) L'attention est attirée sur le fait que certains des éléments de la présente Publication de l'IEC peuvent faire l'objet de droits de brevet. L'IEC ne saurait être tenue pour responsable de ne pas avoir identifié de tels droits de brevets.

L'IEC 61196 -1-200 a été établie par le sous-comité 46A: Câbles coaxiaux, du comité d'études 46 de l'IEC: Câbles, fils, guides d'ondes, connecteurs, composants passifs pour micro-onde et accessoires. Il s'agit d'une Norme internationale.

Cette troisième édition annule et remplace la deuxième édition parue en 2014. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) Mise à jour de l'Annexe A.

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
46A/1544/FDIS	46A/1555/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Le présent document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous www.iec.ch/members_experts/refdocs. Les principaux types de documents développés par l'IEC sont décrits plus en détail sous www.iec.ch/standardsdev/publications.

Cette Norme internationale doit être utilisée conjointement avec l'IEC 61196-1. Elle est fondée sur la deuxième édition (2005) du présent document.

Une liste de toutes les parties de la série IEC 61196, publiées sous le titre général: *Câbles coaxiaux de communication*, peut être consultée sur le site web de l'IEC.

Le comité a décidé que le contenu du présent document ne sera pas modifié avant la date de stabilité indiquée sur le site web de l'IEC sous webstore.iec.ch dans les données relatives au document recherché. A cette date, le document sera

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- amendé.

CÂBLES COAXIAUX DE COMMUNICATION –

Partie 1-200: Méthodes d'essai d'environnement – Exigences générales

1 Domaine d'application

La présente partie de l'IEC 61196 donne les exigences et les conditions générales relatives aux essais d'environnement à réaliser sur les câbles coaxiaux de communication et elle s'applique à la série IEC 61196-1-2xx qui spécifie les méthodes d'essai d'environnement pour les câbles coaxiaux de communication.

Des précisions supplémentaires sur les essais (par exemple, la température, la durée) et/ou les exigences d'essai peuvent être fournies dans la procédure d'essai applicable et/ou dans la spécification intermédiaire ou particulière applicable.

Un tableau des méthodes d'essai d'environnement de la série IEC 61196-1-2xx figure dans l'Annexe A.

2 Références normatives

Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 61196-1, *Câbles coaxiaux de communication – Partie 1: Spécification générique – Généralités, définitions et exigences*

3 Termes et définitions

Pour les besoins du présent document, les termes et définitions de l'IEC 61196-1 s'appliquent.

L'ISO et l'IEC tiennent à jour des bases de données terminologiques destinées à être utilisées en normalisation, consultables aux adresses suivantes:

- IEC Electropedia: disponible à l'adresse <http://www.electropedia.org/>
- ISO Online browsing platform: disponible à l'adresse <http://www.iso.org/obp>

4 Échantillonnage

4.1 Câble en essai (CUT, *cable under test*)

Sauf spécification contraire dans la méthode d'essai applicable, la longueur du CUT doit être choisie pour prendre en compte la plage dynamique de l'équipement de mesure, afin d'atteindre le niveau exigé d'exactitude. Il convient de mesurer la longueur avec une exactitude meilleure que 1 %, sauf indication contraire dans la spécification de câbles applicable.

4.2 Préconditionnement

Le CUT doit être préconditionné à une température ambiante constante pendant une durée permettant à la température du spécimen de se stabiliser conformément à 6.1.