



EEDC6 (5080) P3
IEC 61196-1-102

DRAFT TANZANIA STANDARD

(Draft for comments only)

Coaxial communication cables - Part 1-102: Electrical test methods - Test for insulation resistance of cable dielectric

Draft for stakeholders' comments only

TANZANIA BUREAU OF STANDARDS

National Foreword

1 Introduction

This draft Tanzania Standard is being prepared by the Communication Equipment Technical Committee, under the supervision of the Electrical Engineering Divisional Standards Committee (EEDC)

This draft Tanzania Standard is an adoption of the International Standard **IEC 61196-1-102:2005** *Coaxial communication cables - Part 1-102: Electrical test methods - Test for insulation resistance of cable dielectric* which has been prepared by the International Electrotechnical Commission.

2 Preamble

This draft Tanzania Standard applies to coaxial communication cables. It specifies test methods for determining the insulation resistance of coaxial cables.

3 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)".

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**COAXIAL COMMUNICATION CABLES –
Part 1-102: Electrical test methods –
Test for insulation resistance of cable dielectric**

FOREWORD

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International Standard IEC 61196-1 -102 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/724/FDIS	46A/741/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.

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This part of IEC 61196 is one of a series of standards being developed for *coaxial communication cables*. The series will comprise the following parts:

Part 1: Generic specification – General, definitions and requirements Part 1-1:

Capability approval for coaxial cables

Part 1-1XX: Electrical test methods Part 1-

2XX: Environmental test methods Part 1-3XX:

Mechanical test methods

Part 1-4XX: Electromagnetic compatibility test methods Part 4:

Sectional specification for radiating cables

Part 5: Sectional specification for CATV trunk and distribution cables Part 5-1:

Blank detail specification for CATV trunk distribution cables Part 6: Sectional
specification for drop cables

Part 6-1: Blank detail specification for CATV drop cables

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site 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.

COAXIAL COMMUNICATION CABLES –

Part 1-102: Electrical test methods – Test for insulation resistance of cable dielectric

1 Scope

This part of IEC 61196 applies to coaxial communication cables. It specifies test methods for determining the insulation resistance of coaxial cables.

2 Normative references

The following referenced documents are indispensable for the application 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 -1:2005, *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.

4 Test for insulation resistance of dielectric

4.1 Principle

The purpose of the test is to determine the d.c. insulation resistance of the insulation material between the inner conductor and the outer conductor or screen or the d.c. insulation resistance of an insulating material between the outer conductor and additional screens or metallic elements of a cable.

4.2 Test equipment

A d.c. power supply >80 V d.c. and ≤ 500 V d.c., unless otherwise specified.

A megohmmeter with a range $\geq 2 \cdot 10^5$ M Ω .

4.3 Preparation of test specimen

The test shall be carried out on a delivery length of finished cable, after preconditioning at a temperature between 15 °C and 35 °C and checking of the continuity of the conductors. The conductor ends shall be stripped of insulation.