

INTERNATIONAL STANDARD

CONSOLIDATED VERSION

**Passive RF and microwave devices, intermodulation level measurement -
Part 4: Measurement of passive intermodulation in coaxial cables**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Passive RF and microwave devices, intermodulation level measurement - Part 4: Measurement of passive intermodulation in coaxial cables

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IEC 62037-4 edition 1.1 contains the first edition (2012-07) [documents 46/418/FDIS and 46/434/RVD] and its amendment 1 (2025-12) [documents 46/1029/CDV and 46/1055/RVC].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 62037-4 has been prepared by technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

This bilingual version (2014-01) corresponds to the monolingual English version, published in 2012-07.

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

FDIS	Report on voting
46/418/FDIS	46/434/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.

The French version of this standard has not been voted upon.

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

A list of all the parts in the IEC 62037 series, published under the general title *Passive r.f. and microwave devices, intermodulation level measurement* can be found on the IEC website.

The committee has decided that the contents of this document and its amendment 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- withdrawn, or
- revised.

INTRODUCTION to Amendment

The purpose of this amendment is:

- to correct Clause 5 Procedure, 5.2 Dynamic test - clamped, list items d), and g); 5.3 Dynamic test - flexing, list items b) and e); and 5.4 Static test, list item b): to add "*maximum*" to the PIM level to be reported.

1 Scope

This part of IEC 62037 defines test fixtures and procedures recommended for measuring levels of passive intermodulation generated by coaxial cables. Two dynamic test methods and a static test method are defined.

All coaxial cables are subjected to the static and clamped cable loop dynamic test.

Cables classified as flexible or semi-flexible are additionally subjected to the flexing tool dynamic test.

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 62037-1, *Passive r.f. and microwave devices, intermodulation level measurement – Part 1: General requirements and measuring methods*

IEC 62037-3, *Passive r.f. and microwave devices, intermodulation level measurement – Part 3: Measurement of passive intermodulation in coaxial connectors*