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INTERNATIONAL STANDARD

Coaxial communication cables –
Part 1- 314: Mechanical test methods – Test for bending

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FOREWORD

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International Standard IEC 61196-1-314 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.

This second edition cancels and replaces the edition published in 2006. This edition constitutes a technical revision. This edition includes the following significant technical change with respect to the previous edition:

– Clause 4 (single bending test) was completely revised.

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

FDIS	Report on voting
46A/1264/FDIS	46A/1269/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.

This standard is intended to be read in conjunction with IEC 61196-1:2005, on which it was based.

A list of all parts in 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 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- withdrawn,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- 314: Mechanical test methods – Test for bending

1 Scope

This part of IEC 61196 applies to coaxial communications cables. It specifies test methods to determine the bending tests for cables:

- bending around a test mandrel (Clause 4);
- repeated bending (Clause 5);
- repeated flexing in service (Clause 6);
- flexing in service (Clause 7);
- bending around rollers or bows during installation (Clause 8);

and for

- measuring the stiffness (Clause 9) of such a cable;
- kink test (Clause 10).

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 http://www.electropedia.org/

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

EN 50289-3-1, *Communication cables – Specifications for test methods – Part 3-1: Mechanical test methods – General requirements*

3 Terms and definitions

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

4 Bending around a test mandrel

4.1 Equipment

A single mandrel apparatus shall enable the sample to be wrapped tangentially in a close helix around a test mandrel.