

TECHNICAL REPORT



**Flexible display devices –
Part 6-21: Mechanical test methods – Foldable durability test for foldable display
set**



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**Flexible display devices –
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display set**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 31.120

ISBN 978-2-8322-6013-5

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FLEXIBLE DISPLAY DEVICES –

**Part 6-21: Mechanical test methods –
Foldable durability test for foldable display set**

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IEC TR 62715-6-21 has been prepared by IEC technical committee 110: Electronic displays. It is a Technical Report.

The text of this Technical Report is based on the following documents:

Draft	Report on voting
110/1426/DTR	110/1435A/RVDTR

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 Technical Report 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.

A list of all parts in the IEC 62715 series, published under the general title *Flexible display devices*, 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 "http://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- withdrawn,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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FLEXIBLE DISPLAY DEVICES –

Part 6-21: Mechanical test methods – Foldable durability test for foldable display set

1 Scope

This part of IEC 62715, which is a technical report, provides information about various folding types and hinge structures of foldable products which can affect the durability of a foldable panel. This document focuses only on the issues concerning the foldable products and will not include product parts that do not affect display durability such as speakers, batteries, communication ports.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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>

3.1

foldable panel

flexible display panel which can be folded

3.2

foldable display set

foldable product

device to which a foldable panel is applied

3.3

in-folding

method used to fold the light emitting surface inward

3.4

out-folding

method used to fold the light emitting surface outward

3.5

multi-folding

method used to fold more than once in different positions

EXAMPLE The different folding positions can be in-out Z type or in-in G type.

3.6

in and out-folding

method used to fold in both the inward and outward direction