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Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -
Part 2-21: Tests - Composite temperature/humidity cyclic test

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Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-21: Tests - composite temperature/humidity cyclic test

FOREWORD

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This redline version of the official IEC Standard allows users to identify the changes made since the previous edition, IEC 61300-2-21:2009. A vertical bar appears in the margin wherever a change has been made. Additions are shown in green text, and deletions are shown in red strikethrough text.

IEC 61300-2-21 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics. It is an International Standard.

This third edition cancels and replaces the second edition published in 2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) update of the terms and definitions and of the details to be specified and reported;

b) update of Figure 1 and Figure 2 according to IEC 60068-2-38.

The text of this International Standard is based on the following documents:

Draft	Report on voting
86B/5264/FDIS	86B/5299/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/publications.

A list of all the parts of IEC 61300 series, under the general title, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures,* 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– withdrawn, or

– revised.

1 Scope

This part of IEC 61300 defines the resistance of a fibre optic device or component to the deteriorative effects of high temperature, humidity and cold conditions.

It is intended to reveal defects in a device under test (DUT) caused by breathing as opposed to absorption of moisture. The test covers the effect of the freezing of trapped water in cracks and fissures as well as condensation. However, the degree of condensation will vary depending on the size and thermal mass of the DUT.

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 60068-2-38, *Environmental testing – Part 2-38: Tests – Test Z/AD: Composite temperature/humidity cyclic test*~~

IEC 61300-1, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance*

IEC 61300-3-1, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination*

IEC 61300-3-3, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-3: Examinations and measurements - Active monitoring of changes in attenuation and return loss*

~~IEC 61300-3-4, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-4: Examinations and measurements – Attenuation*~~

IEC 61753 (all parts), *Fibre optic interconnecting devices and passive components - Performance standards*

IEC 62005 (all parts), *Fibre optic interconnecting devices and passive components - Reliability*

Bibliography

~~IEC 61300-1, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 1: General and guidance~~

IEC 60068-2-38, *Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test*

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