

INTERNATIONAL STANDARD

**Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -
Part 2-2: Tests - Mating durability**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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IEC 61300-2-2 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 fourth edition cancels and replaces the third 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) definition of the mating durability test also for a plug-receptacle configuration of the device under test (DUT);
- b) deletion of measurement condition B;
- c) Definition of a unique measurement condition;
- d) addition of performance categories in the severities;
- e) introduction of new severity levels for connectors and hardened connectors;
- f) definition of new cleaning criteria during mating durability test;
- g) deletion of performance category E in the severities.

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

Draft	Report on voting
86B/5225/FDIS	86B/5247/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 parts of IEC 61300 series, published 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- withdrawn, or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 evaluates the effects of a number of successive cycles of mating and un-mating of fibre optic connectors or other interconnecting devices on optical performance and mechanical degradation of the component under normal usage conditions.

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

IEC 62005 (all parts), *Reliability of fibre optic interconnecting devices and passive components*

Bibliography

IEC TR 62627-01, *Fibre optic interconnecting devices and passive components - Part 01: Fibre optic connector cleaning methods*
