IEC 61300-2-37

Edition 3.0 2016-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-37: Tests – Cable bending for fibre optic closures

Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures – Partie 2-37: Essais – Courbure du câble pour les boîtiers pour fibres optiques

IEC 61300-2-37:2016-04(en-fr)

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –

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FOREWORD

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International Standard IEC 61300-2-37 has been prepared by sub-committee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This third edition cancels and replaces the second edition published in 2006. This edition constitutes a technical revision.

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

a) substantial updating of Subclauses 4.1, 6.5, 6.7 and Figure 1;
b) addition of severities which are determined by the number and direction of cable bends, test temperature and overpressure for each environmental category according to IEC 61753-1.

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

FDIS	Report on voting
86B/3975/FDIS	86B/3981/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.

A list of all the parts in the 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 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- withdrawn,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.

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –

Part 2-37: Tests – Cable bending for fibre optic closures

1 Scope

This part of IEC 61300 describes a test for the effectiveness of the sealing and clamping hardware of a fibre optic closure when the cable entering or exiting the fibre optic closure is subjected to bending.

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

IEC 61300-2-38, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-38: Tests – Sealing for pressurized fibre optic closures*

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 61300-3-28, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-28: Examinations and measurements – Transient loss*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
closure
enclosure intended to provide protection to splices and joints against water and dust ingress

Note 1 to entry: Protection is provided by an overpressure/under-pressure sealing of at least 20 kPa or complete inner filling or free-breathing method.

3.2
climatic chamber
chamber needed for conditioning the device under test

3.3
holding fixture
fixture for mounting the DUT

3.4
bending device
device for applying a controlled bending moment to the cable