



**NSAI**  
Standards

Irish Standard  
I.S. EN 61300-2-37:2016

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

**I.S. EN 61300-2-37:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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EN 61300-2-37:2016

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## National Foreword

I.S. EN 61300-2-37:2016 is the adopted Irish version of the European Document EN 61300-2-37:2016, Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-37: Tests - Cable bending for fibre optic closures

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EUROPEAN STANDARD

**EN 61300-2-37**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2016

ICS 33.180.20

Supersedes EN 61300-2-37:2007

English Version

**Fibre optic interconnecting devices and passive components -  
Basic test and measurement procedures -  
Part 2-37: Tests - Cable bending for fibre optic closures  
(IEC 61300-2-37:2016)**

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)

Lichtwellenleiter - Verbindungselemente und passive  
Bauteile - Grundlegende Prüf- und Messverfahren -  
Teil 2-37: Prüfungen - Kabelbiegung bei Muffen  
(IEC 61300-2-37:2016)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## **EN 61300-2-37:2016**

### **European foreword**

The text of document 86B/3975/FDIS, future edition 3 of IEC 61300-2-37, prepared by SC 86B “Fibre optic interconnecting devices and passive components” of IEC/TC 86 “Fibre optics” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61300-2-37:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-02-25
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-05-25

This document supersedes EN 61300-2-37:2007.

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### **Endorsement notice**

The text of the International Standard IEC 61300-2-37:2016 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61300-2-23	NOTE	Harmonized as EN 61300-2-23.
IEC 61300-3-3	NOTE	Harmonized as EN 61300-3-3.
IEC 61753-1	NOTE	Harmonized as EN 61753-1.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance	EN 61300-1	-
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	EN 61300-2-38	-
IEC 61300-3-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination	EN 61300-3-1	-
IEC 61300-3-28	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements - Transient loss	EN 61300-3-28	-

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**IEC 61300-2-37**

Edition 3.0 2016-04

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**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**





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**IEC 61300-2-37**

Edition 3.0 2016-04

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**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**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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

#### 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

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