

<b>STN</b>	<b>Optovláknové spájacie prvky a pasívne súčiastky. Základné skúšobné a meracie postupy. Časť 3-14: Skúšanie a meranie. Chyba a opakovateľnosť nastavenia tlmenia premenného optického deliča.</b>	<b>STN EN 61300-3-14</b>  35 9252
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Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-14: Examinations and measurements - Error and repeatability of the attenuation settings of a variable optical attenuator

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/15

Obsahuje: EN 61300-3-14:2014, IEC 61300-3-14:2014

Oznámením tejto normy sa od 14.11.2015 ruší  
STN EN 61300-3-14 (35 9252) z júla 2007

**121113**

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2015  
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

**EN 61300-3-14**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2014

ICS 33.180.20

Supersedes EN 61300-3-14:2007

English Version

**Fibre optic interconnecting devices and passive components -  
Basic test and measurement procedures -  
Part 3-14: Examinations and measurements - Error and  
repeatability of the attenuation settings of a variable optical  
attenuator  
(IEC 61300-3-14:2014)**

Dispositifs d'interconnexion et composants passifs à fibres  
optiques - Procédures fondamentales d'essais et de  
mesures - Partie 3-14: Examens et mesures - Erreur et  
répétabilité des positions d'affaiblissement d'un affaiblisseur  
optique variable  
(CEI 61300-3-14:2014)

Lichtwellenleiter - Verbindungselemente und passive  
Bauteile - Grundlegende Prüf- und Messverfahren -  
Teil 3-14: Untersuchungen und Messungen - Abweichung  
und Reproduzierbarkeit der Einstellung eines einstellbaren  
optischen Dämpfungsgliedes  
(IEC 61300-3-14:2014)

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Europäisches Komitee für Elektrotechnische Normung

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## Foreword

The text of document 86B/3816/FDIS, future edition 3 of IEC 61300-3-14, 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 61300-3-14:2014.

The following dates are fixed:

- latest date by which the document has to be (dop) 2015-08-14  
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publication of an identical national  
standard or by endorsement
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## **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 61300-3-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements - Attenuation	EN 61300-3-4	-



# INTERNATIONAL STANDARD

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**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 3-14: Examinations and measurements – Error and repeatability of the attenuation settings of a variable optical attenuator**



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IEC 61300-3-14

Edition 3.0 2014-10

# INTERNATIONAL STANDARD

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**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 3-14: Examinations and measurements – Error and repeatability of the attenuation settings of a variable optical attenuator**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE

**M**

ICS 33.180.20

ISBN 978-2-8322-1885-3

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING  
DEVICES AND PASSIVE COMPONENTS –  
BASIC TEST AND MEASUREMENT PROCEDURES –****Part 3-14: Examinations and measurements –  
Error and repeatability of the attenuation settings  
of a variable optical attenuator**

## FOREWORD

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International Standard IEC 61300-3-14 has been prepared by subcommittee 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 and constitutes a technical revision

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

- a) title modification replacing the word "accuracy" by "error";
- b) inclusion of the distinction of manually and electrically controlled variable optical attenuators in the Scope;

- c) revision of clauses for apparatus and details to be specified to harmonize with other standards in the IEC 61300 series;
- d) addition of “the maximum deviation of attenuation from setting” to the clause for calculation;
- e) addition of “measurement method of hysteresis characteristics” in Annex B.

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

FDIS	Report on voting
86B/3816/FDIS	86B/3843/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 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 web site 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.

A bilingual version of this publication may be issued at a later date.

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

**Part 3-14: Examinations and measurements –  
Error and repeatability of the attenuation settings  
of a variable optical attenuator**

## **1 Scope**

This part of IEC 61300 provides a method to measure the error and repeatability of the attenuation value settings of a variable optical attenuator (VOA). There are two control technologies for VOAs, manually controlled and electrically controlled. This standard covers both control technologies of VOAs and also covers both single-mode and multimode fibre VOAs.

## **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 measurement procedures – Part 1: General and guidance*

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

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