



National Standards Authority of Ireland

STANDARD

**I.S. EN 61753-053-3:2004**

ICS 33.180.20

**FIBRE OPTIC INTERCONNECTING DEVICES  
AND PASSIVE COMPONENTS  
PERFORMANCE STANDARD, PART 053-3:  
CONTINUOUSLY VARIABLE ATTENUATORS  
FOR CATEGORY U - UNCONTROLLED  
ENVIRONMENT (IEC 61753-053-3:2004)**

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EUROPEAN STANDARD

**EN 61753-053-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2004

ICS 33.180.20

English version

**Fibre optic interconnecting devices  
and passive components performance standard  
Part 053-3: Continuously variable attenuators for category U -  
Uncontrolled environment  
(IEC 61753-053-3:2004)**

Norme de qualité de fonctionnement  
des dispositifs d'interconnexion  
et composants passifs à fibres optiques  
Partie 053-3: Affaiblisseurs  
continuellement variables  
pour la catégorie U -  
Environnement non contrôlé  
(CEI 61753-053-3:2004)

Lichtwellenleiter-Verbindungselemente  
und passive Bauteile -  
Betriebsverhalten  
Teil 053-3: Stufenlos regelbare  
Dämpfungsglieder für die Kategorie U -  
Unkontrollierte Umgebung  
(IEC 61753-053-3:2004)

This European Standard was approved by CENELEC on 2004-03-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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**CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 86B/1890/FDIS, future edition 1 of IEC 61753-053-3, 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 was approved by CENELEC as EN 61753-053-3 on 2004-03-01.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2004-12-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2007-03-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61753-053-3:2004 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

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

The following referenced documents are indispensable for the application 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.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-38	- <sup>1)</sup>	Environmental testing Part 2: Tests - Test Z/AD: Composite temperature/humidity cyclic test	EN 60068-2-38	1999 <sup>2)</sup>
IEC 60793-1-1	- <sup>1)</sup>	Optical fibres Part 1-1: Measurement methods and test procedures - General and guidance	EN 60793-1-1	2003 <sup>2)</sup>
IEC 61300-2-1	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures Part 2-1: Tests - Vibration (sinusoidal)	EN 61300-2-1	2003 <sup>2)</sup>
IEC 61300-2-4	- <sup>1)</sup>	Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	1997 <sup>2)</sup>
IEC 61300-2-5	- <sup>1)</sup>	Part 2-5: Tests - Torsion/twist	EN 61300-2-5	2002 <sup>2)</sup>
IEC 61300-2-9	- <sup>1)</sup>	Part 2-9: Tests - Shock	EN 61300-2-9	1997 <sup>2)</sup>
IEC 61300-2-14	- <sup>1)</sup>	Part 2-14: Tests - Maximum input power	EN 61300-2-14	1997 <sup>2)</sup>
IEC 61300-2-17	- <sup>1)</sup>	Part 2-17: Tests - Cold	EN 61300-2-17	2003 <sup>2)</sup>
IEC 61300-2-18	- <sup>1)</sup>	Part 2-18: Tests - Dry heat - High temperature endurance	EN 61300-2-18	1997 <sup>2)</sup>
IEC 61300-2-22	- <sup>1)</sup>	Part 2-22: Tests - Change of temperature	EN 61300-2-22	1997 <sup>2)</sup>
IEC 61300-2-27	- <sup>1)</sup>	Part 2-27: Tests - Dust - Laminar flow	EN 61300-2-27	1997 <sup>2)</sup>
IEC 61300-2-42	- <sup>1)</sup>	Part 2-42: Tests - Static side load for connectors	EN 61300-2-42	1998 <sup>2)</sup>
IEC 61300-3-2	- <sup>1)</sup>	Part 3-2: Examinations and measurements - Polarization dependence of attenuation in a single-mode fibre optic device	EN 61300-3-2	1999 <sup>2)</sup>

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-3-5	- <sup>1)</sup>	Part 3-5: Examinations and measurements - Wavelength dependence of attenuation	EN 61300-3-5	2001 <sup>2)</sup>
IEC 61300-3-6	- <sup>1)</sup>	Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6	2003 <sup>2)</sup>
IEC 61300-3-14	- <sup>1)</sup>	Part 3-14: Examinations and measurements - Accuracy and repeatability of the attenuation settings of a variable attenuator	EN 61300-3-14	1997 <sup>2)</sup>

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