



National Standards Authority of Ireland  
Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

**I.S. EN 61753-083-2:2008**

ICS 33.180.20

**FIBRE OPTIC INTERCONNECTING  
DEVICES AND PASSIVE COMPONENTS  
PERFORMANCE STANDARD -- PART 083-2:  
NON-CONNECTORISED SINGLE-MODE  
FIBRE OPTIC C-BAND/L-BAND WDM  
DEVICES FOR CATEGORY C -  
CONTROLLED ENVIRONMENT (IEC 61753  
-083-2:2007 (EQV))**

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**EUROPEAN STANDARD**

**EN 61753-083-2**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

February 2008

ICS 33.180.20

English version

**Fibre optic interconnecting devices  
and passive components performance standard -  
Part 083-2: Non-connectorised single-mode fibre  
optic C-band/L-band WDM devices for category C -  
Controlled environment  
(IEC 61753-083-2:2007)**

Norme de qualité de fonctionnement  
des dispositifs d'interconnexion  
et composants passifs à fibres optiques -  
Partie 083-2: Dispositifs WDM  
bande C/bande L à fibres optiques  
unimodales, non connectés,  
pour catégorie C -  
Environnement contrôlé  
(CEI 61753-083-2:2007)

Lichtwellenleiter -  
Verbindungselemente  
und passive Bauteile -  
Betriebsverhalten -  
Teil 083-2: Nicht mit Steckverbindern  
versehene Einmoden-Lichtwellenleiter-  
C-Band/L-Band-WDM-Bauteile  
für die Kategorie C -  
Kontrollierte Umgebung  
(IEC 61753-083-2:2007)

This European Standard was approved by CENELEC on 2008-02-01. 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.

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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**

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**Foreword**

The text of document 86B/2447/FDIS, future edition 1 of IEC 61753-083-2, 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 61753-083-2 on 2008-02-01.

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) 2008-11-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2011-02-01

Annex ZA has been added by CENELEC.

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**Endorsement notice**

The text of the International Standard IEC 61753-083-2:2007 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 When 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 60793-2-50	- <sup>1)</sup>	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50 + corr. July	2004 <sup>2)</sup> 2004
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>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	1997 <sup>2)</sup>
IEC 61300-2-9	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests - Shock	EN 61300-2-9	1997 <sup>2)</sup>
IEC 61300-2-14	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-14: Tests - Optical power handling and damage threshold characterization	EN 61300-2-14 + corr. November	2006 <sup>2)</sup> 2006
IEC 61300-2-17	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests - Cold	EN 61300-2-17	2003 <sup>2)</sup>
IEC 61300-2-18	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance	EN 61300-2-18	2005 <sup>2)</sup>
IEC 61300-2-19	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state)	EN 61300-2-19	2005 <sup>2)</sup>

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

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

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-2-22	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature	EN 61300-2-22	2007 <sup>2)</sup>
IEC 61300-2-42	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for connectors	EN 61300-2-42	2005 <sup>2)</sup>
IEC 61300-2-44	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices	EN 61300-2-44	2005 <sup>2)</sup>
IEC 61300-3-2	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic tests and measurement procedures - 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>
IEC 61300-3-6	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6	2003 <sup>2)</sup>
IEC 61300-3-7	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-7: Examinations and measurements - Wavelength dependence of attenuation and return loss	EN 61300-3-7	2001 <sup>2)</sup>
IEC 61300-3-20	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-20: Examinations and measurements - Directivity of fibre optic branching devices	EN 61300-3-20 + corr. March	2001 <sup>2)</sup> 2002
IEC 61300-3-32	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-32: Examinations and measurements - Polarisation mode dispersion measurement for passive optical components	EN 61300-3-32	2006 <sup>2)</sup>
IEC/PAS 61300-3-38	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-38: Group delay and chromatic dispersion	-	-

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