



# SLOVENSKI STANDARD

## SIST EN 61753-1:2010

01-september-2010

Nadomešča:

SIST EN 61753-1-1:2002

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**Izvedbeni standard za optične spojne elemente in pasivne komponente - 1. del:  
Splošno in navodila za izvedbene standarde (IEC 61753-1:2007)**

Fibre optic interconnecting devices and passive components performance standard -  
Part 1: General and guidance for performance standards (IEC 61753-1:2007)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Betriebsverhalten - Teil  
1: Allgemeines und Leitfaden für Betriebsverhaltensnormen (IEC 61753-1:2007)

Norme de qualité de fonctionnement des dispositifs d'interconnexion et composants  
passifs à fibres optiques - Partie 1: Généralités et lignes directrices relatives aux normes  
de qualité de fonctionnement (CEI 61753-1:2007)

**Ta slovenski standard je istoveten z: EN 61753-1:2007**

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**ICS:**

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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**SIST EN 61753-1:2010**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61753-1**

November 2007

ICS 33.180.20

Supersedes EN 61753-1-1:2001

English version

**Fibre optic interconnecting devices and passive components  
performance standard -**

**Part 1: General and guidance for performance standards  
(IEC 61753-1:2007)**

Norme de qualité de fonctionnement  
des dispositifs d'interconnexion  
et composants passifs à fibres optiques -  
Partie 1: Généralités et lignes directrices  
relatives aux normes  
de qualité de fonctionnement  
(CEI 61753-1:2007)

Lichtwellenleiter -  
Verbindungselemente  
und passive Bauteile -  
Betriebsverhalten -  
Teil 1: Allgemeines und Leitfaden  
für Betriebsverhaltensnormen  
(IEC 61753-1:2007)

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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/2452/FDIS, future edition 1 of IEC 61753-1, 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 61753-1 on 2007-10-01.

This European Standard supersedes EN 61753-1-1:2001.

Specific technical changes vis-à-vis EN 61753-1-1:2001 include that EN 61753-1:2007 covers all passive fibre optic products, including connectors, passive optical components, fibre management systems and closures.

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) 2008-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2010-10-01

Annex ZA has been added by CENELEC.

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The text of the International Standard IEC 61753-1:2007 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60068-1      NOTE      Harmonized as EN 60068-1:1994 (not modified).

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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 60529	– <sup>1)</sup>	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 <sup>2)</sup> 1993
IEC 60590	– <sup>1)</sup>	Determination of the aromatic hydrocarbon content of new mineral insulating oils	HD 382 S1	1979 <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 61300-2-2	– <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability	EN 61300-2-2	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 61300-2-5	– <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests - Torsion/twist	EN 61300-2-5	2002 <sup>2)</sup>
IEC 61300-2-6	– <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-6: Tests - Tensile strength of coupling mechanism	EN 61300-2-6	1997 <sup>2)</sup>
IEC 61300-2-7	1995	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-7: Tests - Bending moment	EN 61300-2-7	1997
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>

<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 61300-2-10	1995	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-10: Tests - Crush resistance	EN 61300-2-10	1997
IEC 61300-2-11	1995	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-11: Tests - Axial compression	EN 61300-2-11	1997
IEC 61300-2-12	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests - Impact	EN 61300-2-12	2005 <sup>2)</sup>
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>
IEC 61300-2-21	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-21: Tests - Composite temperature-humidity cyclic test	EN 61300-2-21	1997 <sup>2)</sup>
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 61300-2-23	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-23: Tests - Sealing for non-pressurized closures of fibre optic devices	EN 61300-2-23	1997 <sup>2)</sup>
IEC 61300-2-26	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist	EN 61300-2-26	2007 <sup>2)</sup>
IEC 61300-2-27	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-27: Tests - Dust - Laminar flow	EN 61300-2-27	1997 <sup>2)</sup>

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-2-28	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-28: Tests - Industrial atmosphere (sulphur dioxide)	EN 61300-2-28	1997 <sup>2)</sup>
IEC 61300-2-33	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-33: Tests - Assembly and disassembly of fibre optic closures	EN 61300-2-33	2007 <sup>2)</sup>
IEC 61300-2-34	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-34: Tests - Resistance to solvents and contaminating fluids	EN 61300-2-34	1997 <sup>2)</sup>
IEC 61300-2-37	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-37: Tests - Cable bending for fibre optic closures	EN 61300-2-37	2007 <sup>2)</sup>
IEC 61300-2-38	- <sup>1)</sup>	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	2006 <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 61300-2-45	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-45: Tests - Durability test by water immersion	EN 61300-2-45	1999 <sup>2)</sup>
IEC 61300-2-46	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-46: Tests - Damp heat cyclic	EN 61300-2-46	2006 <sup>2)</sup>
IEC 61300-2-48	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-48: Tests - Temperature-humidity cycling	EN 61300-2-48	2003 <sup>2)</sup>

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u> <sup>2)</sup>
IEC 61300-2-49	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-49: Tests - Connector installation test	EN 61300-2-49	2007 <sup>2)</sup>
IEC 61300-2-50	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-50: Tests - Fibre optic connector proof test with static load - Singlemode and multimode	EN 61300-2-50	2007 <sup>2)</sup>
IEC 61300-2-51	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-51: Tests - Fibre optic connector test for transmission with applied tensile load - singlemode and multimode	EN 61300-2-51	2007 <sup>2)</sup>
IEC 61300-3-3	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-3: Examinations and measurements - Active monitoring of changes in attenuation and return loss	EN 61300-3-3	2003 <sup>2)</sup>
IEC 61300-3-4	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements - Attenuation	EN 61300-3-4	2001 <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 61300-3-28	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements - Transient loss	EN 61300-3-28	2002 <sup>2)</sup>
IEC 61300-3-34	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-34: Examinations and measurements - Attenuation of random mated connectors	EN 61300-3-34	2002 <sup>2)</sup>
IEC Guide 109	- <sup>1)</sup>	Environmental aspects - Inclusion in electrotechnical product standards	-	-
ISO 1998	Series	Petroleum industry - Terminology	-	-

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# INTERNATIONAL STANDARD

# IEC 61753-1

First edition  
2007-03

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## Fibre optic interconnecting devices and passive components performance standard –

### Part 1: General and guidance for performance standards

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**FIBRE OPTIC INTERCONNECTING DEVICES AND  
PASSIVE COMPONENTS PERFORMANCE STANDARD –**
**Part 1: General and guidance for performance standards**

## FOREWORD

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International Standard IEC 61753-1 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This first edition of IEC 61753-1 cancels and replaces Edition 1 of IEC 61753-1-1 published in 2000. It constitutes a technical revision.

Specific technical changes vis-à-vis IEC 61753-1-1:2000 include that this new edition covers all passive fibre optic products, including connectors, passive optical components, fibre management systems and closures.

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

FDIS	Report on voting
86B/2452/FDIS	86B/2498/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 of IEC 61753 series, under the general title *Fibre optic interconnecting devices and passive components performance standards*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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

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