SLOVENSKI STANDARD

SIST EN 61753-052-3:2004

september 2004

Izvedbeni standard povezovalnih naprav in pasivnih komponent optičnih vlaken – 052-3. del: Fiksirani zmanjševalci z enorodnimi vlakni in priključki za kategorijo U; nekontrolirano okolje (IEC 61753-052-3:2001)*

Fibre optic interconnecting devices and passive components performance standard - Part 052-3: Single-mode fibre, pigtailed-style fixed attenuators for category U - Uncontrolled environment (IEC 61753-052-3:2001)

ICS 33.180.20

Referenčna številka
SIST EN 61753-052-3:2004(en)

EUROPEAN STANDARD **EN 61753-052-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM March 2002

ICS 33.180.20

English version

Fibre optic interconnecting devices and passive components performance standard Part 052-3: Single-mode fibre, pigtailed-style fixed attenuators for category U – Uncontrolled environment

(IEC 61753-052-3:2001)

Norme de qualité de fonctionnement des dispositifs d'interconnexion et composants passifs à fibres optiques Partie 052-3: Atténuateurs fixes à fibre amorce unimodale pour la catégorie U – Environnement non contrôlé (CEI 61753-052-3:2001)

Lichtwellenleiter-Verbindungselemente und passive Bauteile – Betriebsverhalten Teil 052-3: Feste Einmoden-Lichtwellenleiter-Dämpfungsglieder mit Anschlussfasern für die Kategorie U - Unkontrollierte Umgebung (IEC 61753-052-3:2001)

This European Standard was approved by CENELEC on 2002-03-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Ref. No. EN 61753-052-3:2002 E

Foreword

The text of document 86B/1593/FDIS, future edition 1 of IEC 61753-052-3, 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 61753-052-3 on 2002-03-01.

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) 2002-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-03-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annexes A and ZA are normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61753-052-3:2001 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

Publication	Year	Title	EN/HD	Year
IEC 60793-1-1	- [1)]	Optical fibres Part 1: Generic specification -- Section 1: General	-	-
IEC 61300-2-1	- [1)]	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures Part 2-1: Tests - Vibration (sinusoidal)	EN 61300-2-1	1997 [2)]
IEC 61300-2-4	- [1)]	Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	1997 [2)]
IEC 61300-2-5	- [1)]	Part 2-5: Tests - Torsion/twist	EN 61300-2-5	1997 [2)]
IEC 61300-2-12	- [1)]	Part 2-12: Tests - Impact	EN 61300-2-12	1997 [2)]
IEC 61300-2-14	- [1)]	Part 2-14: Tests - Maximum input power	EN 61300-2-14	1997 [2)]
IEC 61300-2-17	- [1)]	Part 2-17: Tests - Cold	EN 61300-2-17	1997 [2)]
IEC 61300-2-18	- [1)]	Part 2-18: Tests - Dry heat - High temperature endurance	EN 61300-2-18	1997 [2)]
IEC 61300-2-19	- [1)]	Part 2-19: Tests - Damp heat (steady state)	EN 61300-2-19	1997 [2)]
IEC 61300-2-22	- [1)]	Part 2-22: Tests - Change of temperature	EN 61300-2-22	1997 [2)]
IEC 61300-2-35	- [1)]	Part 2-35: Tests - Cable nutation	EN 61300-2-35	1997 [2)]
IEC 61300-3-2	- [1)]	Part 3-2: Examinations and measurements - Polarization dependence of attenuation in a single-mode fibre optic device	EN 61300-3-2	1999 [2)]

1) Undated reference.

2) Valid edition at date of issue.

Publication	Year	Title	EN/HD	Year
IEC 61300-3-4	- [1)]	Part 3-4: Examinations and measurements - Attenuation	EN 61300-3-4	2001 [2)]
IEC 61300-3-6	- [1)]	Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6	1997 [2)]
IEC 61753-1-1	- [1)]	Fibre optic interconnecting devices and passive components performance standard Part 1-1: General and guidance - Interconnecting devices (connectors)	EN 61753-1-1	2001 [2)]

NORME INTERNATIONALE

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Norme de qualité de fonctionnement des dispositifs d'interconnexion et composants passifs à fibres optiques –

Partie 052-3: Atténuateurs fixes à fibre amorce unimodale pour la catégorie U – Environnement non contrôlé

Fibre optic interconnecting devices and passive components performance standard –

Part 052-3: Single-mode fibre, pigtailed-style fixed attenuators for category U – Uncontrolled environment

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International Electrotechnical Commission
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS PERFORMANCE STANDARD –

Part 052-3: Single-mode fibre, pigtailed-style fixed attenuators for category U – Uncontrolled environment

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.

3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.

4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61753-052-3 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86B/1593/FDIS	86B/1626/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 3.

Annex A forms an integral part of this standard.

The committee has decided that the contents of this publication will remain unchanged until 2008. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS PERFORMANCE STANDARD –

Part 052-3: Single-mode fibre, pigtailed-style fixed attenuators for category U – Uncontrolled environment

1 Scope

This part of IEC 61753 contains the minimum initial test and measurement requirements and severities which a fibre optic attenuator must satisfy in order to be categorized as meeting the requirements of category U (uncontrolled environments), as defined in annex A of IEC 61753-1-1.

2 Normative references

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.

IEC 60793-1-1, *Optical fibres – Part 1: Generic specification – Section 1: General*

IEC 61300-2-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-1: Tests – Vibration (sinusoidal)*

IEC 61300-2-4, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-4: Tests – Fibre/cable retention*

IEC 61300-2-5, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-5: Tests – Torsion/twist*

IEC 61300-2-12, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-12: Tests – Impact*

IEC 61300-2-14, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-14: Tests – Maximum input power*

IEC 61300-2-17, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-17: Tests – Cold*

IEC 61300-2-18, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-18: Tests – Dry heat – High temperature endurance*

IEC 61300-2-19, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-19: Tests – Damp heat (steady state)*