SLOVENSKI STANDARD

SIST EN 61753-022-2:2004

september 2004

Izvedbeni standard povezovalnih naprav in pasivnih komponent optičnih vlaken – 022-2. del: Konektorji optičnih vlaken, ki se zaključujejo na večrodnih vlaknih kategorije C; kontrolirano okolje (IEC 61753-022-2:2003)*

Fibre optic interconnecting devices and passive components performance standard - Part 022-2: Fibre optic connectors terminated on multimode fibre for category C - Controlled environment (IEC 61753-022-2:2003)

ICS 33.180.20

Referenčna številka
SIST EN 61753-022-2:2004(en)

EUROPEAN STANDARD **EN 61753-022-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM April 2003

ICS 33.180.20

English version

Fibre optic interconnecting devices and passive components performance standard Part 022-2: Fibre optic connectors terminated on multimode fibre for category C - Controlled environment

(IEC 61753-022-2:2003)

Norme de qualité de fonctionnement des dispositifs d'interconnexion et composants passifs à fibres optiques Partie 022-2: Connecteurs à fibres optiques raccordés à une fibre multimode pour la catégorie C - Environnement contrôlé (CEI 61753-022-2:2003)

Lichtwellenleiter-Verbindungselemente und passive Bauteile - Betriebsverhalten Teil 022-2: Lichtwellenleiter-Steckverbinder zum Anschluss an Mehrmodenfasern der Kategorie C - Geregelte Umgebung (IEC 61753-022-2:2003)

This European Standard was approved by CENELEC on 2003-03-01. 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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 61753-022-2:2003 E

Foreword

The text of document 86B/1776/FDIS, future edition 1 of IEC 61753-022-2, 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 61753-022-2 on 2003-03-01.

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)	2003-12-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2006-03-01

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

Endorsement notice

The text of the International Standard IEC 61753-022-2:2003 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 60793-2	1998	Optical fibres Part 2: Product specifications	-	-
IEC 61300	Series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures	EN 61300	Series
IEC 61300-2-1	1995	Part 2-1: Tests - Vibration (sinusoidal)	EN 61300-2-1 [1)]	1997
IEC 61300-2-2	1995	Part 2-2: Tests - Mating durability	EN 61300-2-2 [2)]	1997
IEC 61300-2-4	1995	Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	1997
IEC 61300-2-6	1995	Part 2-6: Tests - Tensile strength of coupling mechanism	EN 61300-2-6	1997
IEC 61300-2-12	1995	Part 2-12: Tests - Impact	EN 61300-2-12	1997
IEC 61300-2-17	1995	Part 2-17: Tests - Cold	EN 61300-2-17 [3)]	1997
IEC 61300-2-18	1995	Part 2-18: Tests - Dry heat - High temperature endurance	EN 61300-2-18	1997
IEC 61300-2-19	1995	Part 2-19: Tests - Damp heat (steady state)	EN 61300-2-19	1997
IEC 61300-2-22	1995	Part 2-22: Tests - Change of temperature	EN 61300-2-22	1997
IEC 61300-2-42	1998	Part 2-42: Tests - Static side load for connectors	EN 61300-2-42	1998

[1)] EN 61300-2-1 is superseded by EN 61300-2-1:2003, which is based on IEC 61300-2-1:2003.

[2)] EN 61300-2-2 is superseded by EN 61300-2-2:2003, which is based on IEC 61300-2-2:2003.

[3)] EN 61300-2-17 is superseded by EN 61300-2-17:2003, which is based on IEC 61300-2-17:2003.

Publication	Year	Title	EN/HD	Year
IEC 61300-3-3	1997	Part 3-3: Examinations and measurements - Monitoring change in attenuation and in return loss (multiple paths)	EN 61300-3-3 [4)]	1997
IEC 61300-3-4	2001	Part 3-4: Examinations and measurements - Attenuation	EN 61300-3-4	2001
IEC 61300-3-6	1997	Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6 [5)]	1997
IEC 61300-3-28	2002	Part 3-28: Examinations and measurements - Transient loss	EN 61300-3-28	2002
IEC 61300-3-34	2001	Part 3-34: Examinations and measurements - Attenuation of random mated connectors	EN 61300-3-34	2002
IEC 61753-1-1	2000	Fibre optic interconnecting devices and passive components performance standard Part 1-1: General and guidance - Interconnecting devices (connectors)	EN 61753-1-1	2001

[4)] EN 61300-3-3 is superseded by EN 61300-3-3:2003, which is based on IEC 61300-3-3:2003.

[5)] EN 61300-3-6 is superseded by EN 61300-3-6:2003, which is based on IEC 61300-3-6:2003.

INTERNATIONAL STANDARD

IEC 61753-022-2

First edition
2003-02

Fibre optic interconnecting devices and passive components performance standard –

Part 022-2:
Fibre optic connectors terminated on multimode fibre for category C – Controlled environment

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

Partie 022-2:
Connecteurs à fibres optiques raccordés à une fibre multimode pour la catégorie C – Environnement contrôlé

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

PRICE CODE L

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS PERFORMANCE STANDARD –

Part 022-2: Fibre optic connectors terminated on multimode fibre for category C – Controlled 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 61753-022-2 has been prepared by sub-committee 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 of voting
86B/1776/FDIS	86B/1830/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.

The committee has decided that the contents of this publication will remain unchanged until 2006. 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 PERFORMANCE STANDARD –

Part 022-2: Fibre optic connectors terminated on multimode fibre for category C – Controlled environment

1 Scope

This part of IEC 61753 contains the minimum requirements and severities which a fibre optic connector terminated on multimode fibre must satisfy in order to be categorised as meeting the IEC standard category C – Controlled Environment, 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.

60793-2:1998, *Optical fibres – Part 2: Product specifications*

61300 (all parts), *Fibre optic interconnecting devices and passive components*

61300-2-1:1995, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-1: Tests – Vibration (sinusoidal)*

61300-2-2:1995, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-2: Tests – Mating durability*

61300-2-4:1995, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-4: Tests – Fibre/cable retention*

61300-2-6:1995*, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-6: Tests – Tensile strength of coupling mechanism*

61300-2-12:1995, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-12: Tests – Impact*

61300-2-17:1995, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-17: Tests – Cold*

61300-2-18:1995, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-18: Tests – Dry heat – High temperature endurance*

61300-2-19:1995, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-19: Tests – Damp heat (steady state)*

61300-2-22:1995, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-22: Tests – Change of temperature*