SLOVENSKI STANDARD
SIST EN 60876-1:2012

01-december-2012

Nadomešča:

SIST EN 60876-1:2002

Optični spojni elementi in pasivne komponente - Optična prostorska stikala - 1. del: Rodovna specifikacija (IEC 60876-1:2012)

Fibre optic interconnecting devices and passive components - Fibre optic spatial switches - Part 1: Generic specification (IEC 60876-1:2012)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Räumliche Umschalter für Lichtwellenleiter - Teil 1: Fachgrundspezifikation (IEC 60876-1:2012)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Commutateurs spatiaux à fibres optiques - Partie 1 : Spécification générique (CEI 60876-1:2012)

Ta slovenski standard je istoveten z: EN 60876-1:2012

ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices

SIST EN 60876-1:2012 en

EUROPEAN STANDARD

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EUROPÄISCHE NORM

EN 60876-1

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Supersedes EN 60876-1:2001

English version

Fibre optic interconnecting devices and passive components - Fibre optic spatial switches - Part 1: Generic specification

(IEC 60876-1:2012)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Commutateurs spatiaux à fibres optiques - Partie 1 : Spécification générique (CEI 60876-1:2012)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Räumliche Umschalter für Lichtwellenleiter - Teil 1: Fachgrundspezifikation (IEC 60876-1:2012)

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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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 60876-1:2012 E

Foreword

The text of document 86B/3276/CDV, future edition 4 of IEC 60876-1, 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 approved by CENELEC as EN 60876-1:2012.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2013-05-17
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2013-08-17

This document supersedes EN 60876-1:2001.

The changes with respect to EN 60876-1:2001 are to remove quality assessment procedures and to reconsider definitions.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60876-1:2012 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60869-1	NOTE	Harmonized as EN 60869-1.
IEC 61073-1	NOTE	Harmonized as EN 61073-1.
IEC 61754-2	NOTE	Harmonized as EN 61754-2.
IEC 61754-4	NOTE	Harmonized as EN 61754-4.
IEC 61754-13	NOTE	Harmonized as EN 61754-13.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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.

Publication	Year	Title	EN/HD	Year
IEC 60027	Series	Letter symbols to be used in electrical technology	-	-
IEC 60050	Series	International electrotechnical vocabulary	-	-
IEC 60617	Series	Graphical symbols for diagrams	-	-
IEC 60695-11-5	-	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	-
IEC 60825-1	-	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	-
IEC 61300	Series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures	EN 61300	Series
IEC/TR 61930	-	Fibre optic graphical symbology	-	-
IEC 62047-1	-	Semiconductor devices - Micro-electromechanical devices - Part 1: Terms and definitions	EN 62047-1	-
ISO 129-1	-	Technical drawings - Indication of dimensions and tolerances - Part 1: General principles	-	-
ISO 286-1	-	ISO system of limits and fits - Part 1: Bases of tolerances, deviations and fits	-	-
ISO 1101	-	Geometrical Product Specifications (GPS) - Geometrical tolerancing - Tolerances of form, orientation, location and run-out	EN ISO 1101	-
ISO 8601	-	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-

IEC 60876-1

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INTERNATIONAL STANDARD

colour inside

Fibre optic interconnecting devices and passive components – Fibre optic spatial switches – Part 1: Generic specification

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC SPATIAL SWITCHES –

Part 1: Generic specification

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60876-1 has been prepared by subcommittee SC86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This fourth edition cancels and replaces the third edition published in 2001. It constitutes a technical revision. The changes with respect to the previous edition are to remove quality assessment procedures and to reconsider definitions.

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

CDV	Report on voting
86B/3276/CDV	86B/3339/RVC

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 the parts in the IEC 60876 series, published under the general title *Fibre optic interconnecting devices and passive components-Fibre optic spatial switches* can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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

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

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC SPATIAL SWITCHES –

Part 1: Generic specification

1 Scope

This part of IEC 60876 applies to fibre optic switches possessing all of the following general features:

– they are passive in that they contain no optoelectronic or other transducing elements;

– they have one or more ports for the transmission of optical power and two or more states in which power may be routed or blocked between these ports;

– the ports are optical fibres or fibre optic connectors.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60027 (all parts), *Letter symbols to be used in electrical technology*

IEC 60050 (all parts), *International Electrotechnical Vocabulary* (available at <http://www.electropedia.org>)

IEC 60617 (all parts), *Graphical symbols for diagrams* (available at <http://std.iec.ch/iec60617>)

IEC 60695-11-5, *Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance*

IEC 60825-1, *Safety of laser products – Part 1: Equipment classification and requirements*

IEC 61300 (all parts), *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures*

IEC/TR 61930, *Fibre optic graphical symbology*

IEC 62047-1, *Semiconductor devices – Micro-electromechanical devices – Part 1: Terms and definitions*

ISO 129-1, *Technical drawings – Indication of dimensions and tolerances – Part 1: General principles*

ISO 286-1, *Geometrical product specification (GPS) – ISO code system for tolerances on linear sizes – Part 1: Basis of tolerances, deviations and fits*

ISO 1101, *Geometrical Product Specifications (GPS) – Geometrical tolerancing – Tolerances of form, orientation, location and run-out*