



SLOVENSKI STANDARD SIST EN 61073-1:2009

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Fibre optic interconnecting devices and passive components - Mechanical splices and fusion splice protectors for optical fibres and cables - Part 1: Generic specification (IEC 61073-1:2009)

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Lichtwellenleiter - Verbindungselemente und passive Bauteile - Mechanische Spleiße und Fusionspleiße für optische Fasern und Kabel - Teil 1: Fachgrundspezifikation (IEC 61073-1:2009)

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Dispositifs d'interconnexion et composants passifs à fibres optiques - Epissures mécaniques et protecteurs d'épissures par fusion pour fibres et câbles optiques - Partie 1: Spécification générique (CEI 61073-1:2009)

Ta slovenski standard je istoveten z: EN 61073-1:2009

ICS:

33.180.20 Ú[ç^: [çæ] ^Á æ |æ^Á æ Fibre optic interconnecting devices
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61073-1

April 2009

ICS 33.180.20

Supersedes EN 61073-1:2000

English version

**Fibre optic interconnecting devices and passive components -
Mechanical splices and fusion splice protectors
for optical fibres and cables -
Part 1: Generic specification
(IEC 61073-1:2009)**

Dispositifs d'interconnexion
et composants passifs à fibres optiques -
Epissures mécaniques et protecteurs
d'épissures par fusion pour fibres
et câbles optiques -
Partie 1: Spécification générique
(CEI 61073-1:2009)

Lichtwellenleiter -
Verbindungselemente
und passive Bauteile -
Mechanische Spleiße
und Fusionspleiße
für optische Fasern und Kabel -
Teil 1: Fachgrundspezifikation
(IEC 61073-1:2009)

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This European Standard was approved by CENELEC on 2009-02-01. 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.

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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 86B/2773/FDIS, future edition 4 of IEC 61073-1, 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 61073-1 on 2009-02-01.

This European Standard supersedes EN 61073-1:2000.

The main changes with respect to EN 61073-1:2000 are as follows:

- terms and definitions have been reconsidered;
- style has been added in classification of requirement;
- environmental category has been deleted from classification of requirement;
- standardisation structure and standards interlink have been reconsidered.

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) 2009-11-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2010-02-01

Annex ZA has been added by CENELEC.

SIST EN 61073-1:2009

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Endorsement notice

The text of the International Standard IEC 61073-1:2009 was approved by CENELEC as a European Standard without any modification.

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 60027	Series	Letter symbols to be used in electrical technology	EN 60027	Series
IEC 60050-731	- ¹⁾	International Electrotechnical Vocabulary (IEV) - Chapter 731: Optical fibre communication	-	-
IEC 60617	Series	Graphical symbols for diagrams	-	-
IEC 60695-11-5	- ¹⁾	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2005 ²⁾
IEC 60793-1 (mod)	Series	Optical fibres - Part 1: Measurement methods and test procedures	EN 60793-1	Series
IEC 60825-1	- ¹⁾	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	2007 ²⁾
IEC 61300-1	- ¹⁾	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance	EN 61300-1	2003 ²⁾
IEC 61300-2	Series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2: Tests	EN 61300-2	Series
IEC 61300-3	Series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3: Examinations and measurements	EN 61300-3	Series
IEC/TR 61930	- ¹⁾	Fibre optic graphical symbology	-	-
IEC/TR 61931	- ¹⁾	Fibre optic - Terminology	-	-
IEC QC 001002-3	- ¹⁾	IEC Quality Assessment System for Electronic Components (IECQ) - Rules of Procedure - Part 3: Approval procedures	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC Guide 102	- ¹⁾	Electronic components - Specification structures for quality assessment (Qualification approval and capability approval)	-	-
ISO 129-1	- ¹⁾	Technical drawings - Indication of dimensions and tolerances - Part 1: General principles	-	-
ISO 286-1	- ¹⁾	ISO system of limits and fits - Part 1: Bases of tolerances, deviations and fits	-	-
ISO 1101	- ¹⁾	Geometrical Product Specifications (GPS) - Geometrical tolerancing - Tolerances of form, orientation, location and run-out	EN ISO 1101	2005 ²⁾
ISO 8601	- ¹⁾	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-

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Edition 4.0 2009-01

INTERNATIONAL STANDARD

Fibre optic interconnecting devices and passive components – Mechanical splices and fusion splice protectors for optical fibres and cables – Part 1: Generic specification

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS –
MECHANICAL SPLICES AND FUSION SPLICE PROTECTORS
FOR OPTICAL FIBRES AND CABLES –**

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 61073-1 has been prepared by subcommittee 86B: 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 1999. This edition constitutes a technical revision. The main changes with respect to the previous edition are as follows:

- terms and definitions have been reconsidered;
- style has been added in classification of requirement;
- environmental category has been deleted from classification of requirement;
- standardisation structure and standards interlink have been reconsidered.

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

FDIS	Report on voting
86B/2773/FDIS	86B/2805/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 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

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

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

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – MECHANICAL SPLICES AND FUSION SPLICE PROTECTORS FOR OPTICAL FIBRES AND CABLES –

Part 1: Generic specification

1 Scope

This part of IEC 61073 applies to fibre optic splice hardware (mechanical splices and fusion splice protections) for optical fibres and cables.

It includes:

- fibre optic splice hardware requirements;
- quality assessment procedures.

This standard does not cover test and measurement procedures, which are described in IEC 61300-1, IEC 61300-2 series and IEC 61300-3 series.

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.

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References made to a specific clause or subclause of a standard include all subclauses of the reference unless otherwise specified.

IEC QC 001002-3, *IEC Quality Assessment System for Electronic Components (IECQ) – Rules of Procedure – Part 3: Approval procedures*

IEC Guide 102, *Electronic components – Specification structures for quality assessment (Qualification approval and capability approval)*

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

IEC 60050-731, *International Electrotechnical Vocabulary – Chapter 731: Optical fibre communication*

IEC 60617 (all parts), *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*

IEC 60793-1 (all parts), *Optical fibres – Measurement methods and test procedures*

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

IEC 61300-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 1: General and guidance*