



# SLOVENSKI STANDARD SIST EN 61314-1:2009

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SIST EN 61314-1:2006

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Fibre optic interconnecting devices and passive components - Fibre optic fan-outs - Part 1: Generic specification (IEC 61314-1:2009)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Lichtwellenleitersplitter - Teil 1: Fachgrundspezifikation (IEC 61314-1:2009)

Norme de qualité de fonctionnement des dispositifs interconnexion et composants passifs à fibres optiques - Systèmes d'éclatement pour fibres optiques -- Partie 1: Spécification générique (CEI 61314-1:2009)

**Ta slovenski standard je istoveten z: EN 61314-1:2009**

**ICS:**

33.180.20 Ú[ ç^: [ çæ] ^Á æ] !æ^Áæ Fibre optic interconnecting devices [ ] cã } æç|æ } æ

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61314-1**

April 2009

ICS 33.180.20

Supersedes EN 61314-1:2005

English version

**Fibre optic interconnecting devices and passive components -  
Fibre optic fan-outs -  
Part 1: Generic specification  
(IEC 61314-1:2009)**

Dispositifs d'interconnexion  
et composants passifs à fibres optiques -  
Systèmes d'éclatement  
pour fibres optiques -  
Partie 1: Spécification générique  
(CEI 61314-1:2009)

Lichtwellenleiter -  
Verbindungselemente  
und passive Bauteile -  
Lichtwellenleiterteiler -  
Teil 1: Fachgrundspezifikation  
(IEC 61314-1:2009)

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This European Standard was approved by CENELEC on 2009-04-01. 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/2694/CDV, future edition 3 of IEC 61314-1, 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 61314-1 on 2009-04-01.

This European Standard supersedes EN 61314-1:2005.

The specific technical changes from EN 61314-1:2005 are as follows:

- classification was reconsidered;
- optical interface standard was added to standardisation system.

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) 2010-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2012-04-01

Annex ZA has been added by CENELEC.

## iTeh STANDARD PREVIEW (standard not certified)

The text of the International Standard IEC 61314-1:2009 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 60793-1	NOTE	Harmonized in EN 60793-1 series (partially modified).
IEC 60869-1	NOTE	Harmonized as EN 60869-1:2000 (not modified).
IEC 61073-1	NOTE	Harmonized as EN 61073-1:2009 (not modified).
IEC 61300-1	NOTE	Harmonized as EN 61300-1:2003 (not modified).
IEC 61300-2	NOTE	Harmonized in EN 61300-2 series (not modified).
IEC 61300-3	NOTE	Harmonized in EN 61300-3 series (not modified).

## 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	- <sup>1)</sup>	International Electrotechnical Vocabulary (IEV) - Chapter 731: Optical fibre communication	-	-
IEC 60617	Data-base	Graphical symbols for diagrams	-	-
IEC 60695-11-5	- <sup>1)</sup>	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2005 <sup>2)</sup>
IEC 60793-1-1	- <sup>1)</sup>	Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance	EN 60793-1-1	2008 <sup>2)</sup>
IEC 60794-1-1	- <sup>1)</sup>	Optical fibre cables - Part 1-1: Generic specification - General	EN 60794-1-1	2002 <sup>2)</sup>
IEC 60825-1	- <sup>1)</sup>	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	2007 <sup>2)</sup>
IEC 60874-1	- <sup>1)</sup>	Connectors for optical fibres and cables - Part 1: Generic specification	EN 60874-1	2007 <sup>2)</sup>
IEC 61300	Series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures	EN 61300	Series
IEC 61753	Series	Fibre optic interconnecting devices and passive components performance standard	EN 61753	Series
IEC 61753-1	- <sup>1)</sup>	Fibre optic interconnecting devices and passive components performance standard - Part 1: General and guidance for performance standards	EN 61753-1	2007 <sup>2)</sup>
IEC 61754-4	- <sup>1)</sup>	Fibre optic connector interfaces - Part 4: Type SC connector family	EN 61754-4	1997 <sup>2)</sup>
IEC 61754-13	- <sup>1)</sup>	Fibre optic connector interfaces - Part 13: Type FC-PC connector	EN 61754-13	2006 <sup>2)</sup>
IEC 61754-20	- <sup>1)</sup>	Fibre optic connector interfaces - Part 20: Type LC connector family	EN 61754-20	2002 <sup>2)</sup>
IEC/TR 61930	- <sup>1)</sup>	Fibre optic graphical symbology	-	-

<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/TR 61931	- <sup>1)</sup>	Fibre optic - Terminology	-	-
IEC Guide 102	- <sup>1)</sup>	Electronic components - Specification structures for quality assessment (Qualification approval and capability approval)	-	-
IECQ 01	- <sup>1)</sup>	IEC Quality Assessment System for Electronic Components (IECQ) - Basic Rules	-	-
IECQ 001002	Series	IEC quality assessment system for electronic components (IECQ) - Rules of procedure	-	-
ISO 129	- <sup>1)</sup>	Technical drawings - Dimensioning - General - principles, definitions, methods of execution and special indications	-	-
ISO 286-1	- <sup>1)</sup>	ISO system of limits and fits - Part 1: Bases of tolerances, deviations and fits	EN 20286-1	1993 <sup>2)</sup>
ISO 1101	- <sup>1)</sup>	Geometrical Product Specifications (GPS) - Geometrical tolerancing - Tolerances of form, orientation, location and run-out	EN ISO 1101	2005 <sup>2)</sup>
ISO 8601	- <sup>1)</sup>	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-

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IEC 61314-1

Edition 3.0 2009-01

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Fibre optic fan-outs –  
Part 1: Generic specification**

**Dispositifs d'interconnexion et composants passifs à fibres optiques –  
Systèmes d'éclatement pour fibres optiques –  
Partie 1: Spécification générique**

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ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING  
DEVICES AND PASSIVE COMPONENTS –  
FIBRE OPTIC FAN-OUTS –**

**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 61314-1 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This third edition cancels and replaces the second edition published in 2005 and constitutes a technical revision.

The specific technical changes from the previous edition are as follows:

- classification was reconsidered;
- optical interface standard was added to standardisation system.

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

CDV	Report on voting
86B/2694/CDV	86B/2758/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 parts of IEC 61314 series, under the general title *Fibre optic interconnecting devices and passive components – Fibre optic fan-outs*<sup>1</sup> 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

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

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<sup>1</sup> Future standards in this series will carry the general new title as cited above. Titles of existing standards in this series will be updated at the time of the new edition.

# FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC FAN-OUTS –

## Part 1: Generic specification

### 1 Scope

This part of IEC 61314 specifies requirements for fan-outs used in the fibre optics field to provide a safe transition from multifibre cable units to individual fibres or cables.

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

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

IEC 60050(731), *International Electrotechnical Vocabulary (IEV) – Part 731: Optical fibre communication*

IEC 60617, *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 60793-1-1, *Optical fibres – Part 1-1: Measurement methods and test procedures – General and guidance*

IEC 60794-1-1, *Optical fibre cables – Part 1-1: Generic specification – General*

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

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

IEC 60874-1, *Connectors for optical fibres and cables – Part 1: Generic specification*

IEC 61753 (all parts), *Fibre optic interconnecting devices and passive components performance standard*

IEC 61753-1, *Fibre optic interconnecting devices and passive components performance standard – Part 1: General and guidance for performance standards*

IEC 61754-4, *Fibre optic connector interfaces – Part 4: Type SC connector family*

IEC 61754-13, *Fibre optic connector interfaces – Part 13: Type FC-PC connector*