



SLOVENSKI STANDARD

SIST EN 61754-1:2014

01-januar-2014

**Optični spojni elementi in pasivne komponente - Vmesniki optičnih konektorjev -
1. del: Splošno in navodilo (IEC 61754-1:2013)**

Fibre optic interconnecting devices and passive components - Fibre optic connector
interfaces - Part 1: General and guidance

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Ta slovenski standard je istoveten z: ^{SIST EN 61754-1:2014} EN 61754-1:2013
<https://standards.iteh.ai/catalog/standards/sis/5216a655-7bac-4679-8347-cf544188855a/sist-en-61754-1-2014>

ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
-----------	---------------------------------------	-------------------------------------

SIST EN 61754-1:2014

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61754-1:2014

<https://standards.iteh.ai/catalog/standards/sist/5216a653-7bac-4679-8347-cf544188855a/sist-en-61754-1-2014>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61754-1

November 2013

ICS 33.180.20

Supersedes EN 61754-1:1997

English version

**Fibre optic interconnecting devices and passive components -
Fibre optic connector interfaces -
Part 1: General and guidance
(IEC 61754-1:2013)**

Dispositifs d'interconnexion et composants
passifs à fibres optiques -
Interfaces de connecteurs à fibres
optiques -
Partie 1: Généralités et lignes directrices
(CEI 61754-1:2013)

Lichtwellenleiter -
Verbindungselemente und passive
Bauteile -
Steckgesichter von Lichtwellenleiter-
Steckverbindern -
Teil 1: Allgemeines und Leitfaden
(IEC 61754-1:2013)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

This European Standard was approved by CENELEC on 2013-09-24. 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 CEN-CENELEC Management Centre 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 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

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 86B/3503/CDV, future edition 2 of IEC 61754-1, prepared by subcommittee 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 61754-1:2013.

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) 2014-06-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2014-09-24

This document supersedes EN 61754-1:1997.

EN 61754-1:2013 includes the following significant technical changes with respect to EN 61754-1:1997:

a) general reconsideration of performance requirements;

b) addition of Figure 1.

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.

SIST EN 61754-1:2014
<https://standards.iteh.ai/catalog/standards/sist/5216a653-7bac-4679-8347-cfe4180855/sist-en-61754-1-2014>
Endorsement notice

The text of the International Standard IEC 61754-1:2013 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 61753 Series	NOTE	Harmonised in EN 61753 series (not modified).
IEC 61931	NOTE	Harmonised as EN 61931 (not modified).
ISO 1101	NOTE	Harmonised as EN ISO 1101 (not modified).
ISO 2692	NOTE	Harmonised as EN ISO 2692 (not modified).
ISO 5458	NOTE	Harmonised as EN ISO 5458 (not modified).
ISO 5459	NOTE	Harmonised as EN ISO 5459 (not modified).
ISO 7083	NOTE	Harmonised as EN ISO 7083 (not modified).

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-731 + Corr. July	1991 1992	International Electrotechnical Vocabulary (IEV) - Chapter 731: Optical fibre communication	-	-
IEC 60874-1	2011	Fibre optic interconnecting devices and passive components - Connectors for optical fibres and cables - Part 1: Generic specification	EN 60874-1	2012
IEC 61754	Series	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces	EN 61754	Series

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61754-1:2014

<https://standards.iteh.ai/catalog/standards/sist/5216a653-7bac-4679-8347-cf544188855a/sist-en-61754-1-2014>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61754-1:2014

<https://standards.iteh.ai/catalog/standards/sist/5216a653-7bac-4679-8347-cf544188855a/sist-en-61754-1-2014>



IEC 61754-1

Edition 2.0 2013-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 1: General and guidance

Dispositifs d'interconnexion et composants passifs à fibres optiques – Interfaces de connecteurs à fibres optiques – Partie 1: Généralités et lignes directrices

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

M

ICS 33.180.20

ISBN 978-2-8322-1050-5

**Warning! Make sure that you obtained this publication from an authorized distributor.
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	6
4 Dimensioning system.....	9
5 Gauges.....	9
6 Tolerance grades.....	9
Annex A (normative) Dimensioning connector interfaces.....	10
A.1 General.....	10
A.2 Units	10
A.3 Fundamental rules	10
Annex B (informative) Using interface standards.....	12
Bibliography.....	13
Figure 1 – Plug, adaptor, and receptacle for a connector examples.....	9

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61754-1:2014

<https://standards.iteh.ai/catalog/standards/sist/5216a653-7bac-4679-8347-cf544188855a/sist-en-61754-1-2014>

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC CONNECTOR INTERFACES –

Part 1: General and guidance

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.
- 2) The formal decisions or agreements of 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 IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61754-1 has been prepared by subcommittee SC86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition, published in 1996, and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) general reconsideration of performance requirements;
- b) addition of Figure 1.