



NSAI
Standards

Irish Standard
I.S. EN 61754-15:2009

Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces -- Part 15: Type LSH connector family

I.S. EN 61754-15:2009

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

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EN 61754-15:2009

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National Foreword

I.S. EN 61754-15:2009 is the adopted Irish version of the European Document EN 61754-15:2009, Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces -- Part 15: Type LSH connector family

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD

EN 61754-15

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2009

ICS 33.180.20

Supersedes EN 61754-15:2001 and CECC 86 275-801:1999

English version

**Fibre optic interconnecting devices and passive components -
Fibre optic connector interfaces -
Part 15: Type LSH connector family
(IEC 61754-15:2009)**

Dispositifs d'interconnexion
et composants passifs à fibres optiques -
Interfaces de connecteurs
pour fibres optiques -
Partie 15: Famille de connecteurs
de type LSH
(CEI 61754-15:2009)

Lichtwellenleiter -
Verbindungselemente
und passive Bauteile -
Steckgesichter
von Lichtwellenleiter-Steckverbindern -
Teil 15: Steckverbinderfamilie
der Bauart LSH
(IEC 61754-15:2009)

This European Standard was approved by CENELEC on 2009-07-01. 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/2835/FDIS, future edition 2 of IEC 61754-15, 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 61754-15 on 2009-07-01.

This European Standard supersedes EN 61754-15:2001 and CECC 86 275-801:1999.

The main changes with regard to EN 61754-15:2001 are to reconsider the figures and the dimensions of the interface.

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) | 2010-04-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2010-07-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61754-15:2009 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 61755-3 (mod)	Series	Fibre optic connector optical interfaces - Part 3: Optical interface	EN 61755-3	Series
ISO 8015	- ¹⁾	Technical drawings - Fundamental tolerancing principle	-	-

¹⁾ Undated reference.

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IEC 61754-15
(Second edition – 2009)

Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces –

Part 15: Type LSH connector family

IEC 61754-15
(Deuxième édition – 2009)

Dispositifs d'interconnexion et composants passifs à fibres optiques – Interfaces de connecteurs pour fibres optiques –

Partie 15: Famille de connecteurs de type LSH

CORRIGENDUM 1

Replace, in Table 2, the existing row R by the following new row R:

R	4,9 mm	5,11 mm
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Remplacer, dans le Tableau 2, la ligne R existante par la nouvelle ligne R suivante:

R	4,9 mm	5,11 mm
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IEC 61754-15

Edition 2.0 2009-06

INTERNATIONAL STANDARD

**Fibre optic interconnecting devices and passive components – Fibre optic
connector interfaces –
Part 15: Type LSH connector family**



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Edition 2.0 2009-06

INTERNATIONAL STANDARD

**Fibre optic interconnecting devices and passive components – Fibre optic
connector interfaces –
Part 15: Type LSH connector family**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING
DEVICES AND PASSIVE COMPONENTS –
FIBRE OPTIC CONNECTOR INTERFACES –**
Part 15: Type LSH connector family

FOREWORD

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International Standard IEC 61754-15 has been prepared by subcommittee 86B: 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 1999. The main changes with regard to the previous edition are to reconsider the figures and the dimensions of the interface.

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

FDIS	Report on voting
86B/2835/FDIS	86B/2876/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.

A list of all the parts in the IEC 61754 series, under the general title *Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces*, 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 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.

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

Part 15: Type LSH connector family

1 Scope

This part of IEC 61754 defines the standard interface dimensions for the type LSH family of connectors.

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 61755-3 (all parts), *Fibre optic connector optical interface – Part 3: Optical interface*

ISO 8015, *Technical drawings – Fundamental tolerancing principle*

3 Description

The parent connector for the type LSH connector family is a single-position plug connector which is characterized by a 2,5 mm nominal ferrule diameter. It includes a push-click-pull coupling mechanism, which is spring-loaded relative to the ferrule in the direction of the optical axis. The optical alignment mechanism of the connectors is a rigid bore sleeve or a resilient sleeve style.

4 Interfaces

The pages that follow define the standard interfaces for the type LSH connector family.

This standard contains the following standard interfaces:

- Interface 61754-15-1 Simplex plug connector PC-interface
- Interface 61754-15-2 Simplex adaptor interface
- Interface 61754-15-3 Duplex plug connector PC-interface
- Interface 61754-15-4 Duplex adaptor interface
- Interface 61754-15-5 Simplex plug connector interface – APC 8°
- Interface 61754-15-6 Duplex plug connector interface – APC 8°
- Interface 61754-15-7 Active device interface

The following standards are intermateable.

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