

**Fibre optic connector interfaces - Part 3: Type LSA
connector family**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 61754-3:2003 sisaldab Euroopa standardi EN 61754-3:2002 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 05.02.2003 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 19.08.2002.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 61754-3:2003 consists of the English text of the European standard EN 61754-3:2002.

This standard is ratified with the order of Estonian Centre for Standardisation dated 05.02.2003 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 19.08.2002.

The standard is available from Estonian standardisation organisation.

ICS 33.180.20

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EUROPEAN STANDARD

EN 61754-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2002

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English version

Fibre optic connector interfaces
Part 3: Type LSA connector family
(IEC 61754-3:1996, modified)

Interfaces de connecteurs
pour fibres optiques
Partie 3: Famille de connecteurs
de type LSA
(CEI 61754-3:1996, modifiée)

Steckgesichter von
Lichtwellenleiter-Steckverbindern
Teil 3: Steckverbinderfamilie
der Bauart LSA
(IEC 61754-3:1996, modifiziert)

This European Standard was approved by CENELEC on 2002-04-01. 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.

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CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of the International Standard IEC 61754-3:1996, prepared by SC 86B, Fibre optic interconnecting devices and passive components, of IEC TC 86, Fibre optics, together with the common modifications prepared by the Technical Committee CENELEC TC 86BXA, Fibre optic interconnect, passive and connectorised components, was submitted to the formal vote and was approved by CENELEC as EN 61754-3 on 2002-04-01.

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) 2003-04-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2005-04-01

Endorsement notice

The text of the International Standard IEC 61754-3:1996 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

In Table 1a, **replace** the contents of the 5th column of Reference C by “2 & 3”.

In Table 1b, **add** a 3rd note:

3 The minimum value of 11,8 refers to the compressed state and the maximum value of 12,4 refers to the uncompressed state.

INTERNATIONAL STANDARD

IEC
1754-3

First edition
1996-12

Fibre optic connector interfaces –

Part 3: Type LSA connector family

*Interfaces de connecteurs
pour fibres optiques –*

*Partie 3:
Famille de connecteurs de type LSA*



Reference number
IEC 1754-3: 1996 (E)

Validité de la présente publication

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- **Bulletin de la CEI**
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Publié annuellement
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Terminologie

En ce qui concerne la terminologie générale, le lecteur se reportera à la CEI 50: *Vocabulaire Electrotechnique International* (VEI), qui se présente sous forme de chapitres séparés traitant chacun d'un sujet défini. Des détails complets sur le VEI peuvent être obtenus sur demande. Voir également le dictionnaire multilingue de la CEI.

Les termes et définitions figurant dans la présente publication ont été soit tirés du VEI, soit spécifiquement approuvés aux fins de cette publication.

Symboles graphiques et littéraux

Pour les symboles graphiques, les symboles littéraux et les signes d'usage général approuvés par la CEI, le lecteur consultera:

- la CEI 27: *Symboles littéraux à utiliser en électro-technique*;
- la CEI 417: *Symboles graphiques utilisables sur le matériel. Index, relevé et compilation des feuilles individuelles*;
- la CEI 617: *Symboles graphiques pour schémas*;

et pour les appareils électromédicaux,

- la CEI 878: *Symboles graphiques pour équipements électriques en pratique médicale*.

Les symboles et signes contenus dans la présente publication ont été soit tirés de la CEI 27, de la CEI 417, de la CEI 617 et/ou de la CEI 878, soit spécifiquement approuvés aux fins de cette publication.

Publications de la CEI établies par le même comité d'études

L'attention du lecteur est attirée sur les listes figurant à la fin de cette publication, qui énumèrent les publications de la CEI préparées par le comité d'études qui a établi la présente publication.

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- **IEC Bulletin**
- **IEC Yearbook**
Published yearly
- **Catalogue of IEC publications**
Published yearly with regular updates

Terminology

For general terminology, readers are referred to IEC 50: *International Electrotechnical Vocabulary* (IEV), which is issued in the form of separate chapters each dealing with a specific field. Full details of the IEV will be supplied on request. See also the IEC Multilingual Dictionary.

The terms and definitions contained in the present publication have either been taken from the IEV or have been specifically approved for the purpose of this publication.

Graphical and letter symbols

For graphical symbols, and letter symbols and signs approved by the IEC for general use, readers are referred to publications:

- IEC 27: *Letter symbols to be used in electrical technology*;
- IEC 417: *Graphical symbols for use on equipment. Index, survey and compilation of the single sheets*;
- IEC 617: *Graphical symbols for diagrams*;

and for medical electrical equipment,

- IEC 878: *Graphical symbols for electromedical equipment in medical practice*.

The symbols and signs contained in the present publication have either been taken from IEC 27, IEC 417, IEC 617 and/or IEC 878, or have been specifically approved for the purpose of this publication.

IEC publications prepared by the same technical committee

The attention of readers is drawn to the end pages of this publication which list the IEC publications issued by the technical committee which has prepared the present publication.

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IEC
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CONTENTS

	Page
FOREWORD.....	3
Clause	
1 Scope	4
2 Description	4
3 Interfaces	4

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC CONNECTOR INTERFACES –
Part 3: Type LSA connector family**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 1754-3 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86B/834/FDIS	86B/924/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.

FIBRE OPTIC CONNECTOR INTERFACES – Part 3: Type LSA connector family

1 Scope

This part of IEC 1754 defines the standard interface dimensions for type LSA family of connectors.

2 Description

The parent connector for type LSA connector family is a single position plug connector which is characterized by a 2,5 mm nominal ferrule diameter. It includes a screw coupling nut and a ferrule spring load in the direction of the optical axis. The plug has a single male key which may be used to orient and limit the relative rotation between the connector and the component to which it is mated.

3 Interfaces

This standard contains the following standard interfaces:

Interface 3-1: Plug connector interface – Screw coupling

Interface 3-2: Adaptor connector interface – Screw coupling

Interface 3-1 mates with interface 3-2.