

SLOVENSKI STANDARD

SIST EN 61754-20-100:2012

01-oktober-2012

Optični spojni elementi in pasivne komponente - Optični konektorski vmesniki - 20-100. del: Vmesniški standard za konektorje LC z zaščitnim ohišjem po IEC 61076-3-106 (IEC 61754-20-100:2012)

Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 20-100: Interface standard for LC connectors with protective housings related to IEC 61076-3-106 (IEC 61754-20-100:2012)

STANDARD PREVIEW
Lichtwellenleiter - Verbindungselemente und passive Bauteile - Steckgesichter von Lichtwellenleiter-Steckverbindern - Teil 20-100: Steckverbinderfamilie der Bauart LC mit Schutzgehäusen nach IEC 61076-3-106 (IEC 61754-20-100:2012)

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Dispositifs d'interconnexion et composants passifs à fibres optiques - Interfaces de connecteurs pour fibres optiques - Partie 20-100: Norme d'interface pour les connecteurs de type LC avec boîtiers de protection liés à la norme CEI 61076-3-106 (CEI 61754-20-100:2012)

Ta slovenski standard je istoveten z: EN 61754-20-100:2012

ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61754-20-100

August 2012

ICS 33.180.20

English version

**Fibre optic interconnecting devices and passive components -
Fibre optic connector interfaces -
Part 20-100: Interface standard for LC connectors with protective
 housings related to IEC 61076-3-106
(IEC 61754-20-100:2012)**

Dispositifs d'interconnexion et composants
passifs à fibres optiques - Interfaces
de connecteurs pour fibres optiques -
Partie 20-100: Norme d'interface
pour les connecteurs de type LC
avec boîtiers de protection liés
à la norme CEI 61076-3-106
(CEI 61754-20-100:2012)

Lichtwellenleiter-Verbindungselemente
und passive Bauteile -
Steckgesichter von Lichtwellenleiter-
Steckverbindern -
Teil 20-100: Steckverbinderfamilie
der Bauart LC mit Schutzgehäusen
nach IEC 61076-3-106
(IEC 61754-20-100:2012)

SIST EN 61754-20-100:2012

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 86B/3386/FDIS, future edition 1 of IEC 61754-20-100, prepared by IEC/SC 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 61754-20-100:2012.

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) 2013-03-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-06-27

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Endorsement notice

The text of the International Standard IEC 61754-20-100:2012 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated :

IEC 61754-1 NOTE Harmonised as EN 61754-1.

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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 60050-581	-	International Electrotechnical Vocabulary (IEV) - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60050-731	-	International Electrotechnical Vocabulary (IEV) - Chapter 731: Optical fibre communication	-	-
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	EN 60529	-
IEC 61076-3-106	2006	Connectors for electronic equipment - Product requirements - Part 3-106: Rectangular connectors - Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface	EN 61076-3-106	2006
IEC 61754-20	2002	Fibre optic connector interfaces - Part 20: Type LC connector family	EN 61754-20	2002

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IEC 61754-20-100

Edition 1.0 2012-05

INTERNATIONAL STANDARD

**Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces –
Part 20-100: Interface standard for LC connectors with protective housings related to IEC 61076-3-106**

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

PRICE CODE



ICS 33.180.20

ISBN 978-2-88912-065-9

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 20-100: Interface standard for LC connectors with protective housings related to IEC 61076-3-106

FOREWORD

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International Standard IEC 61754-20-100 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/3386/FDIS	86B/3434/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 stability 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 – FIBRE OPTIC CONNECTOR INTERFACES –

Part 20-100: Interface standard for LC connectors with protective housings related to IEC 61076-3-106

1 Scope

This part of IEC 61754 covers connectors with protective housings. The housing is defined as variant 4 in IEC 61076-3-106:2006. These connectors use a push-pull coupling mechanism.

To connect the fibres inside the housing the LC interface is used as described in IEC 61754-20:2002.

The fully assembled variants (connectors) described in this document incorporate fixed and free connectors.

2 Normative references

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.

IEC 60050-581, *International Electrotechnical Vocabulary (IEV) – Chapter 581: Electromechanical components for electronic equipment*

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

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 61076-3-106:2006, *Connectors for electronic equipment – Product requirements – Part 3-106: Rectangular connectors – Protective housings for use with 8-way shielded and unshielded connectors for frequencies up to 600 MHz for industrial environments incorporating the 60603-7 series interface*

IEC 61754-20:2002, *Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces – Part 20: Type LC connector family*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-581 and IEC 60050-731 apply.

4 Description

The industrial connectors referenced in this International Standard are composed of LC-connectors according to IEC 61754-20:2002 in an IP65 and IP67 plug to receptacle interface according to IEC 60529. The intermateability is defined by the interface of the