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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**

**Dispositifs d'interconnexion et composants passifs fibroniques – Interfaces de connecteurs à fibres optiques –
Partie 20-100: Norme d'interface pour les connecteurs LC avec boîtiers de protection conformes à l'IEC 61076-3-106**



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INTERNATIONAL
ELECTROTECHNICAL
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ELECTROTECHNIQUE
INTERNATIONALE

ICS 33.180.20

ISBN 978-2-8322-9343-0

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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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 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.

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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