
Optične aktivne komponente in naprave - Standardi zanesljivosti - 3. del: Laserski moduli za telekomunikacije (IEC 62572-3:2011)

Fibre optic active components and devices - Reliability standards - Part 3: Laser modules used for telecommunication (IEC 62572-3:2011)

Aktive Lichtwellenleiterbauelemente und -geräte - Zuverlässigkeitsnormen - Teil 3: Lasermodule für Telekommunikationsanwendungen (IEC 62572-3:2011)

Composants et dispositifs actifs en fibres optiques - Normes de fiabilité - Partie 3: Modules laser utilisés pour les télécommunications (CEI 62572-3:2011)

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**Fibre optic active components and devices -
Reliability standards -
Part 3: Laser modules used for telecommunication
(IEC 62572-3:2011)**

Composants et dispositifs actifs en fibres
optiques -
Normes de fiabilité -
Partie 3: Modules laser utilisés pour les
télécommunications
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Aktive Lichtwellenleiterbauelemente und -
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Teil 3: Lasermodule für
Telekommunikationsanwendungen
(IEC 62572-3:2011)

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CENELEC

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 86C/1022/FDIS, future edition 1 of IEC 62572-3, prepared by SC 86C "Fibre optic systems and active devices", of IEC/TC 86, "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62572-3:2012.

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) 2012-09-29
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2014-12-29

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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 60068-2-1	-	Environmental testing - Part 2-1: Tests - Test A: Cold	EN 60068-2-1	-
IEC 60068-2-14	-	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	-
IEC 60747-1	-	Semiconductor devices - Part 1: General	-	-
IEC 60749-1	-	Semiconductor devices - Mechanical and climatic test methods - Part 1: General	EN 60749-1	-
IEC/TR 62572-2	2008	Fibre optic active components and devices - Reliability standards - Part 2: Laser module degradation	-	-
ISO 9001	-	Quality management systems - Requirements	EN ISO 9001	-
MIL-ST-883	-	Test methods and procedures for microelectronics	EN 60749-1	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fibre optic active components and devices – Reliability standards –
Part 3: Laser modules used for telecommunication**

**Composants et dispositifs actifs en fibres optiques – Normes de fiabilité –
Partie 3: Modules laser utilisés pour les télécommunications**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES –
RELIABILITY STANDARDS –**
Part 3: Laser modules used for telecommunication

FOREWORD

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International Standard IEC 62572-3 has been prepared by subcommittee 86C: Fibre optic systems and active devices of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86C/1022/FDIS	86C/1035/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
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INTRODUCTION

The laser modules covered by this International Standard are purchased by system suppliers (SS) to be inserted in equipment which in turn are supplied/sold to a system operator (SO) or a network operator (see definitions in Clause 3).

For the system operator to act as an informed buyer, knowledge of the potential risks posed by the use of critical components is required.

Optoelectronic component technology is continuing to develop. Consequently, during product development phases, many failure mechanisms in laser modules have been identified. These failure mechanisms, if undetected, could result in very short laser lifetime in system use.

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