

**Fibre optic enclosures Part 1: Generic specification**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 62134-1:2003 sisaldab Euroopa standardi EN 62134-1:2002 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 15.01.2003 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 29.05.2002.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 62134-1:2003 consists of the English text of the European standard EN 62134-1:2002.

This standard is ratified with the order of Estonian Centre for Standardisation dated 15.01.2003 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 29.05.2002.

The standard is available from Estonian standardisation organisation.

ICS 33.180.99

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EUROPEAN STANDARD

**EN 62134-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2002

ICS 33.180.99

English version

**Fibre optic enclosures**  
**Part 1: Generic specification**  
(IEC 62134-1:2002)

Enveloppes pour fibres optiques  
Partie 1: Spécification générique  
(CEI 62134-1:2002)

Lichtwellenleiternormen  
Teil 1: Fachgrundspezifikation  
(IEC 62134-1:2002)

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

## Foreword

The text of document 86B/1642/FDIS, future edition 1 of IEC 62134-1, 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 62134-1 on 2002-05-01.

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) 2003-02-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2005-05-01

Annexes designated "normative" are part of the body of the standard.

In this standard, annex ZA is normative.

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62134-1:2002 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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>        |
|--------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|
| IECQ 001001        | - <sup>1)</sup> | IEC Quality Assessment System for Electronic Components (IECQ) - Basic Rules                                             | -            | -                  |
| IECQ 001002-2      | 1998            | IEC Quality Assessment System for Electronic Components (IECQ) - Rules of Procedure<br>Part 2: Documentation             | -            | -                  |
| IECQ 001002-3      | 1998            | Part 3: Approval procedures                                                                                              | -            | -                  |
| IEC Guide 102      | - <sup>1)</sup> | Electronic components - Specification structures for quality assessment (Qualification approval and capability approval) | -            | -                  |
| IEC 60027          | Series          | Letter symbols to be used in electrical technology                                                                       | HD 245       | Series             |
| IEC 60050-731      | - <sup>1)</sup> | International Electrotechnical Vocabulary (IEV)<br>Chapter 731: Optical fibre communication                              | -            | -                  |
| IEC 60410          | - <sup>1)</sup> | Sampling plans and procedures for inspection by attributes                                                               | -            | -                  |
| IEC 60617          | Series          | Graphical symbols for diagrams                                                                                           | EN 60617     | Series             |
| IEC 60695-2-2      | - <sup>1)</sup> | Fire hazard testing<br>Part 2: Test methods -<br>Section 2: Needle-flame test                                            | EN 60695-2-2 | 1994 <sup>2)</sup> |
| IEC 60793-2        | - <sup>1)</sup> | Optical fibres<br>Part 2: Product specifications                                                                         | -            | -                  |

<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

| <u>Publication</u> | <u>Year</u>     | <u>Title</u>                                                                                                                                                                    | <u>EN/HD</u>                                            | <u>Year</u>                                |
|--------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|
| IEC 60794-2        | - <sup>1)</sup> | Optical fibre cables<br>Part 2: Product specifications                                                                                                                          | -                                                       | -                                          |
| IEC 60825-1        | - <sup>1)</sup> | Safety of laser products<br>Part 1: Equipment classification,<br>requirements and user's guide                                                                                  | EN 60825-1<br>+ corr. February<br>+ A11<br>+ corr. July | 1994 <sup>2)</sup><br>1995<br>1996<br>1997 |
| IEC 61073-1        | - <sup>1)</sup> | Mechanical splices and fusion splice<br>protectors for optical fibres and cables<br>Part 1: Generic specification                                                               | EN 61073-1                                              | 2000 <sup>2)</sup>                         |
| IEC 61300-2        | Series          | Fibre optic interconnecting devices and<br>passive components - Basic test and<br>measurement procedures<br>Part 2: Tests                                                       | EN 61300-2                                              | Series                                     |
| IEC 61300-2-16     | - <sup>1)</sup> | Part 2-16: Tests - Mould growth                                                                                                                                                 | EN 61300-2-16                                           | 1997 <sup>2)</sup>                         |
| IEC 61300-2-30     | - <sup>1)</sup> | Part 2-30: Tests - Solar radiation                                                                                                                                              | EN 61300-2-30                                           | 1997 <sup>2)</sup>                         |
| IEC 61300-2-36     | - <sup>1)</sup> | Part 2-36: Tests - Flammability (fire<br>hazard)                                                                                                                                | EN 61300-2-36                                           | 1997 <sup>2)</sup>                         |
| IEC 61300-3        | Series          | Part 3: Examinations and<br>measurements                                                                                                                                        | EN 61300-3                                              | Series                                     |
| IEC 61753-1-1      | - <sup>1)</sup> | Fibre optic interconnecting devices and<br>passive components performance<br>standard<br>Part 1-1: General and guidance -<br>Interconnecting devices (connectors)               | EN 61753-1-1                                            | 2001 <sup>2)</sup>                         |
| IEC/TR3 61930      | - <sup>1)</sup> | Fibre optic graphical symbology                                                                                                                                                 | -                                                       | -                                          |
| ISO 129            | - <sup>1)</sup> | Technical drawings - Dimensioning -<br>General principles, definitions, methods<br>of execution and special indications                                                         | -                                                       | -                                          |
| ISO 286-1          | - <sup>1)</sup> | ISO system of limits and fits<br>Part 1: Bases of tolerances, deviations<br>and fits                                                                                            | -                                                       | -                                          |
| ISO 370            | - <sup>1)</sup> | Toleranced dimensions - Conversion<br>from inches into millimetres and vice<br>versa                                                                                            | -                                                       | -                                          |
| ISO 1101           | - <sup>1)</sup> | Technical drawings - Geometrical<br>tolerancing - Tolerancing of form,<br>orientation, location and run-out -<br>Generalities, definitions, symbols,<br>indications on drawings | -                                                       | -                                          |

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Fibre optic closures –**

**Part 1: Generic specification**

**Dispositifs d'interconnexion et composants passifs à fibres optiques – Boîtiers à fibres optiques –**

**Partie 1: Spécification générique**



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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Fibre optic closures –  
Part 1: Generic specification**

**Dispositifs d'interconnexion et composants passifs à fibres optiques – Boîtiers  
à fibres optiques –  
Partie 1: Spécification générique**

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## **FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC CLOSURES –**

### **Part 1: Generic specification**

#### FOREWORD

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International Standard IEC 62134-1 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 2002. It constitutes a technical revision.

The main changes with respect to the previous edition are listed below:

- addition and rewording of some terms and definitions;
- reconsideration of type, style and variant in the requirements;
- removal of quality assessment procedures.

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

| FDIS          | Report on voting |
|---------------|------------------|
| 86B/2846/FDIS | 86B/2885/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 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.

## INTRODUCTION

Closures comprise a broad component family that functions to protect, secure and store passive fibre optic components (such as splices or connectors) or other non-interconnecting devices (such as optical branching devices). They are installed at either indoor or outdoor locations, and provide access to the optical path of one or more cabled optical fibres. They also generally provide a fibre management system for the orderly management, routing, and storage of optical fibres. Configuration definitions may specify integrated functions, or permit grouped combinations of compatible independent sub-units. Specific classification requirements vary, and may or may not include isolation from environmental hazards (such as water ingress), structure codes (such as fire safety), or other appropriate considerations.

Closures are not intended to provide the primary packaging or structure for uncabled optical fibre splices (such as a rigid mechanical splice shell, or a fusion splice protection sleeve). Specification for those devices is defined in IEC 61073-1.

It is also intended that closures specified under this standard are not sufficiently characterized for continuous brine or deep-water submersion. Examples of this are oceanic or lake-crossing applications. Cables, closures and installation methods suited to this use are highly specialised and are not within the scope of this standard or supporting test procedures.

# FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC CLOSURES –

## Part 1: Generic specification

### 1 Scope

This part of IEC 62134 establishes uniform generic requirements for fibre optic closures.

This standard does not cover test and measurement procedures, which are described in IEC 61300 series.

### 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.

IECQ 001002-3:2005, *IEC Quality Assessment System for Electronic Components (IECQ) – Rules of Procedure – Part 3: Approval procedures*

IEC 60027 (all parts), *Letter symbols to be used in electrical technology*

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

IEC 60068 (all parts), *Environmental testing*

IEC 60068-2-10, *Environmental testing – Part 2-10: Tests – Test J and guidance: Mould growth*

IEC 60617 (all parts), *Graphical symbols for diagrams*

IEC 60695 (all parts), *Fire hazard testing*

IEC 60695-1-1, *Fire hazard testing – Part 1-1: Guidance for assessing the fire hazard of electrotechnical products – General guidelines*

IEC 60793-2, *Optical fibres – Part 2: Product specifications*

IEC 60794-2, *Optical fibre cables – Part 2: Indoor cables – Sectional specification*

IEC 60825-1, *Safety of laser products – Part 1: Equipment classification and requirements*

IEC 61300-2 (all parts), *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2: Tests*

IEC 61300-3 (all parts), *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3: Examinations and measurements*

IEC 61753-1, *Fibre optic interconnecting devices and passive components performance standard – Part 1: General and guidance for performance standards*

IEC 61754 (all parts), *Fibre optic connector interfaces*

IEC/TR 61930, *Fibre optic graphical symbology*

IEC/TR 61931, *Fibre optic – Terminology*

IEC 62005 (all parts); *Reliability of fibre optic interconnecting devices and passive optical components*

ISO 129-1, *Technical drawings – Indication of dimensions and tolerances – Part 1: General principles*

ISO 286-1, *ISO system of limits and fits – Part 1: Bases of tolerances, deviations and fits*

ISO 1101, *Geometrical Product Specifications (GPS) – Geometrical tolerancing – Tolerances of form, orientation, location and run-out*

ISO 4892-3, *Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps*

ISO 8601, *Data elements and interchange formats – Information interchange – Representation of dates and times*

### **3 Terms and definitions**

For the purposes of this document, the terms and definitions given in IEC 60050(731) and IEC 61931, as well as the following apply.

#### **3.1**

##### **cable splice**

permanent or separable joint between two or more optical fibre cables. It may consist of optical fibre joints, fibre management systems, closures or other safety devices

#### **3.2**

##### **closure**

all external housings except, outdoor wall boxes, cabinets or pedestals

#### **3.3**

##### **enclosure**

indoor and outdoor housings (wall boxes, cabinets, cases, distribution frames or pedestals)

#### **3.4**

##### **fibre management system**

system to control, protect and store fibres from the incoming to the outgoing fibres. It is intended for installation within another closure

#### **3.5**

##### **fibre splice**

permanent or separable splice between two or more optical fibres