



SLOVENSKI STANDARD SIST EN 61300-3-1:1999

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Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination (IEC 61300-3-1:1995)

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Lichtwellenleiter - Verbindungselemente und passive Bauteile - Grundlegende Prüf- und Meßverfahren -- Teil 3-1: Untersuchungen und Messungen - Sichtprüfung

Dispositifs d'interconnexion et composants passifs à fibres optiques - Méthodes fondamentales d'essais et de mesures - Partie 3-1: Examens et mesures - Examen visuel

Ta slovenski standard je istoveten z: EN 61300-3-1:1997

ICS:

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61300-3-1

August 1997

ICS 33.180.20

English version

**Fibre optic interconnecting devices and passive components
Basic test and measurement procedures
Part 3-1: Examinations and measurements - Visual examination
(IEC 61300-3-1:1995)**

Dispositifs d'interconnexion et
composants passifs à fibres optiques
Méthodes fondamentales d'essais et
de mesures
Partie 3-1: Examens et mesures
Examen visuel
(CEI 61300-3-1:1995)

Lichtwellenleiter - Verbindungselemente
und passive Bauteile - Grundlegende
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Teil 3-1: Untersuchungen und
Messungen - Sichtprüfung
(IEC 61300-3-1:1995)

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SIST EN 61300-3-1:1999

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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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 61300-3-1:1995, prepared by SC 86B, Fibre optic interconnecting devices and passive components, of IEC TC 86, Fibre optics, was submitted to the formal vote and was approved by CENELEC as EN 61300-3-1 on 1997-07-01 without any modification.

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) 1998-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1998-06-01

Endorsement notice

The text of the International Standard IEC 61300-3-1:1995 was approved by CENELEC as a European Standard without any modification.

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Dispositifs d'interconnexion et composants
passifs à fibres optiques –
Méthodes fondamentales d'essais
et de mesures –

Partie 3-1:

Examens et mesures –
Examen visuel

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Fibre optic interconnecting devices
and passive components –
Basic test and measurement procedures –

Part 3-1:

Examinations and measurements –
Visual examination

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International Electrotechnical Commission
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES
AND PASSIVE COMPONENTS –
BASIC TEST AND MEASUREMENT PROCEDURES –**

Part 3-1: Examinations and measurements – Visual examination

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 cooperation 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 1300-3-1 has been prepared by sub-committee 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:

| | |
|-------------|------------------|
| DIS | Report on voting |
| 86B/528/DIS | 86B/590/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.

IEC 1300 consists of the following parts, under the general title: *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures*:

- Part 1: General and guidance
- Part 2: Tests
- Part 3: Examinations and measurements

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –

Part 3-1: Examinations and measurements – Visual examination

1 General

1.1 *Scope and object*

The purpose of this part of IEC 1300 is to provide the criteria for the visual and mechanical examination of fibre optic devices when coupled with specific information and requirements detailed in the generic and detail specifications. The examination method may be used at any stage of the qualification or quality conformance inspection test sequence, as a stand-alone test or for examination before and after an environmental (primary) test.

1.2 *General description*

Three methods are described in this procedure. Method 1 is used to examine the specimen to ensure that it is of the proper configuration, that the workmanship is satisfactory and that the marking is correct. Method 2 is used to measure all size dimensions and mass for conformance to the detail specification. Method 3 is used for visual examination of the specimen before and after the environmental test.

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2 Apparatus

The apparatus shall consist of the following elements.

2.1 *Optical magnifier*

Optical inspection instruments may be used as appropriate.

2.2 *Dimensional measurement instruments*

Vernier calipers, micrometers, etc. of sufficient accuracy may be used as necessary to verify specification requirements.

2.3 *Special equipment*

Gauges, colour samples, etc. may also be required to verify fit, performance, colour, finish or other specified parameters.

3 Procedure

4.1 *Visual examination*

The specimen shall be examined using the specified apparatus to verify that it meets the specified requirements. Examples of items to examine include:

- materials used;

- general design and construction;
- workmanship;
- configuration;
- component type;
- orientation of the ports;
- finish;
- identification of product (marking);
- damage;
- missing parts.

3.2 *Dimensions and mass*

The dimensions and mass of the specimen shall be measured as specified.

3.3 *Examination before and after environmental test*

Visually examine the specimen at the initial measurement time specified in the primary test. Repeat the examination at the measurement time(s) specified in the primary test.

As this examination procedure is used as part of a test or a test sequence, particular parameters of interest should be specified. The list of examination criteria may be reduced if no change is expected, as, for example, materials or for design and construction.

4 **Details to be specified**

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The following details, as applicable, shall be given in the detail specification:

- Component type, configuration and marking
- Pre-conditioning procedure
- Recovery procedure
- Size dimensions and mass to be measured
- Size measurement methods
- Mass measurement method
- Inspection time(s)
- Magnification of optical instrument used
- Acceptance/failure criteria
- Deviations from examination procedure