

|            |  |  |
|------------|--|--|
| <b>STN</b> | <b>Optovláknové spájacie prvky a pasívne súčiastky</b><br><b>Základné skúšobné a meracie postupy</b><br><b>Časť 1: Všeobecne a návod</b> | <b>STN</b><br><b>EN IEC 61300-1</b><br><br>35 9252 |
|------------|--|--|

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/22

Obsahuje: EN IEC 61300-1:2022, IEC 61300-1:2022

Oznámením tejto normy sa od 09.05.2023 ruší  
STN EN 61300-1 (35 9252) z júna 2017

**135296**

EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 61300-1**

May 2022

ICS 33.180.20

Supersedes EN 61300-1:2016

English Version

**Fibre optic interconnecting devices and passive components -  
Basic test and measurement procedures - Part 1: General and  
guidance  
(IEC 61300-1:2022)**

Dispositifs d'interconnexion et composants passifs  
fibroniques - Procédures fondamentales d'essais et de  
mesures - Partie 1: Généralités et recommandations  
(IEC 61300-1:2022)

Lichtwellenleiter - Verbindungselemente und passive  
Bauteile - Grundlegende Prüf- und Messverfahren - Teil 1:  
Allgemeines und Leitfaden  
(IEC 61300-1:2022)

This European Standard was approved by CENELEC on 2022-05-09. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## EN IEC 61300-1:2022 (E)

### European foreword

The text of document 86B/4582/FDIS, future edition 5 of IEC 61300-1, 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 approved by CENELEC as EN IEC 61300-1:2022.

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) 2023-02-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-05-09

This document supersedes EN 61300-1:2016 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

### Endorsement notice

The text of the International Standard IEC 61300-1:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61300 (series) NOTE Harmonized as EN 61300 (series)

IEC 60068-2-1 NOTE Harmonized as EN 60068-2-1

ISO 1 NOTE Harmonized as EN ISO 1

IEC 61315 NOTE Harmonized as EN IEC 61315

IEC 62614-1 NOTE Harmonized as EN IEC 62614-1

IEC 63267 (series) NOTE Harmonized as EN IEC 63267 (series)<sup>1</sup>

IEC 60793-2-40 NOTE Harmonized as EN IEC 60793-2-40

---

<sup>1</sup> In preparation.

## Annex ZA (normative)

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

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

| <u>Publication</u> | <u>Year</u> | <u>Title</u>  | <u>EN/HD</u>      | <u>Year</u> |
|--------------------|-------------|---|-------------------|-------------|
| IEC 60050-731      | -           | International Electrotechnical Vocabulary - Chapter 731: Optical fibre communication  | -                 | -           |
| IEC 60617          | -           | Graphical symbols for diagrams  | -                 | -           |
| IEC 60793-2-10     | -           | Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres                                     | EN IEC 60793-2-10 | -           |
| IEC 60793-2-30     | -           | Optical fibres - Part 2-30: Product specifications - Sectional specification for category A3 multimode fibres                                     | EN 60793-2-30     | -           |
| IEC 60825-1        | -           | Safety of laser products - Part 1: Equipment classification and requirements  | EN 60825-1        | -           |
| IEC 60825-2        | -           | Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCSs)  | -                 | -           |
| IEC 61280-1-4      | -           | Fibre optic communication subsystem test procedures - Part 1-4: General communication subsystems - Light source encircled flux measurement method | EN 61280-1-4      | -           |
| IEC 61280-4-1      | -           | Fibre-optic communication subsystem test procedures - Part 4-1: Installed cabling plant - Multimode attenuation measurement                       | EN IEC 61280-4-1  | -           |
| IEC 61300-2        | series      | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2: Tests                                | EN 61300-2        | series      |
| IEC 61300-3        | series      | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3: Examinations and measurements        | EN 61300-3        | series      |

**EN IEC 61300-1:2022 (E)**

|                |   |   |               |   |
|----------------|---|---|---------------|---|
| IEC 61300-3-1  | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination   | EN 61300-3-1  | - |
| IEC 61300-3-35 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-35: Examinations and measurements - Visual inspection of fibre optic connectors and fibre-stub transceivers | EN 61300-3-35 | - |



# IEC 61300-1

Edition 5.0 2022-04

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 1: General and guidance**

**Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –  
Partie 1: Généralités et recommandations**



**THIS PUBLICATION IS COPYRIGHT PROTECTED**  
**Copyright © 2022 IEC, Geneva, Switzerland**

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

Droits de reproduction réservés. Sauf indication contraire, aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'IEC ou du Comité national de l'IEC du pays du demandeur. Si vous avez des questions sur le copyright de l'IEC ou si vous désirez obtenir des droits supplémentaires sur cette publication, utilisez les coordonnées ci-après ou contactez le Comité national de l'IEC de votre pays de résidence.

IEC Secretariat  
3, rue de Varembé  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

#### About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

#### About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

#### IEC publications search - [webstore.iec.ch/advsearchform](http://webstore.iec.ch/advsearchform)

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee, ...). It also gives information on projects, replaced and withdrawn publications.

#### IEC Just Published - [webstore.iec.ch/justpublished](http://webstore.iec.ch/justpublished)

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and once a month by email.

#### IEC Customer Service Centre - [webstore.iec.ch/csc](http://webstore.iec.ch/csc)

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: [sales@iec.ch](mailto:sales@iec.ch).

#### IEC Products & Services Portal - [products.iec.ch](http://products.iec.ch)

Discover our powerful search engine and read freely all the publications previews. With a subscription you will always have access to up to date content tailored to your needs.

#### Electropedia - [www.electropedia.org](http://www.electropedia.org)

The world's leading online dictionary on electrotechnology, containing more than 22 300 terminological entries in English and French, with equivalent terms in 19 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

---

#### A propos de l'IEC

La Commission Electrotechnique Internationale (IEC) est la première organisation mondiale qui élabore et publie des Normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

#### A propos des publications IEC

Le contenu technique des publications IEC est constamment revu. Veuillez vous assurer que vous possédez l'édition la plus récente, un corrigendum ou amendement peut avoir été publié.

#### Recherche de publications IEC - [webstore.iec.ch/advsearchform](http://webstore.iec.ch/advsearchform)

La recherche avancée permet de trouver des publications IEC en utilisant différents critères (numéro de référence, texte, comité d'études, ...). Elle donne aussi des informations sur les projets et les publications remplacées ou retirées.

#### IEC Just Published - [webstore.iec.ch/justpublished](http://webstore.iec.ch/justpublished)

Restez informé sur les nouvelles publications IEC. Just Published détaille les nouvelles publications parues. Disponible en ligne et une fois par mois par email.

#### Service Clients - [webstore.iec.ch/csc](http://webstore.iec.ch/csc)

Si vous désirez nous donner des commentaires sur cette publication ou si vous avez des questions contactez-nous: [sales@iec.ch](mailto:sales@iec.ch).

#### IEC Products & Services Portal - [products.iec.ch](http://products.iec.ch)

Découvrez notre puissant moteur de recherche et consultez gratuitement tous les aperçus des publications. Avec un abonnement, vous aurez toujours accès à un contenu à jour adapté à vos besoins.

#### Electropedia - [www.electropedia.org](http://www.electropedia.org)

Le premier dictionnaire d'électrotechnologie en ligne au monde, avec plus de 22 300 articles terminologiques en anglais et en français, ainsi que les termes équivalents dans 19 langues additionnelles. Egalement appelé Vocabulaire Electrotechnique International (IEV) en ligne.



IEC 61300-1

Edition 5.0 2022-04

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

---

**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 1: General and guidance**

**Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –  
Partie 1: Généralités et recommandations**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

---

ICS 33.180.20

ISBN 978-2-8322-1093-9

**Warning! Make sure that you obtained this publication from an authorized distributor.  
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**



## CONTENTS

|   |    |
|---|----|
| FOREWORD .....  | 4  |
| INTRODUCTION .....  | 6  |
| 1 Scope .....   | 7  |
| 2 Normative references .....  | 7  |
| 3 Terms, definitions and abbreviated terms .....  | 8  |
| 3.1 Terms and definitions .....   | 8  |
| 3.2 Abbreviated terms .....   | 11 |
| 4 Requirements for IEC 61300-2 (all parts) and IEC 61300-3 (all parts) .....  | 11 |
| 4.1 Requirements for IEC 61300-2 (all parts) (tests) .....  | 11 |
| 4.2 Requirements for IEC 61300-3 (all parts) (examinations and measurement procedures) .....  | 11 |
| 4.2.1 General requirements .....  | 11 |
| 4.2.2 Requirements for attenuation variation .....  | 11 |
| 5 Standard atmospheric conditions .....   | 12 |
| 6 Significance of the numerical value of a quantity .....   | 12 |
| 6.1 General .....   | 12 |
| 6.2 Quantity expressed as nominal value with tolerance .....  | 12 |
| 6.3 Quantity expressed as a range of values .....   | 13 |
| 7 Graphical symbols and terminology .....   | 13 |
| 8 Safety .....  | 14 |
| 9 Calibration .....   | 14 |
| 9.1 General .....   | 14 |
| 9.2 Round robin calibration procedure .....   | 14 |
| 10 Launch conditions .....  | 14 |
| 10.1 General .....  | 14 |
| 10.2 Multimode launch conditions for A1 fibres .....  | 15 |
| 10.3 Multimode launch conditions for A3e fibre .....  | 15 |
| 10.4 Multimode launch conditions for the other multimode fibres .....   | 16 |
| 10.5 Single-mode launch conditions .....  | 16 |
| 10.6 Multimode planar waveguide launch conditions .....   | 16 |
| Annex A (normative) Multimode launch condition requirement for measuring attenuation of components terminated on IEC 60793-2-10 type A1 fibres .....  | 17 |
| A.1 General .....   | 17 |
| A.2 Technical background .....  | 17 |
| A.3 EF template .....   | 17 |
| A.3.1 Applicable types of optical fibres .....  | 17 |
| A.3.2 Encircled flux .....  | 17 |
| A.3.3 EF template example .....   | 17 |
| A.4 Target launch and upper and lower tolerance bands for attenuation measurements of A1-OM2 to A1-OM5 and A1-OM1 optical fibre connections .....     | 18 |
| A.4.1 General .....   | 18 |
| A.4.2 Limits on EF .....  | 18 |
| Annex B (normative) Multimode launch condition requirement for measuring attenuation of components terminated on IEC 60793-2-30 type A3e fibres ..... | 20 |
| B.1 EAF template .....  | 20 |
| B.1.1 Applicable types of optical fibres .....  | 20 |

|       |  |    |
|-------|--|----|
| B.1.2 | Encircled angular flux .....   | 20 |
| B.1.3 | EAF template example.....  | 20 |
| B.2   | Target launch and upper and lower tolerance bands for attenuation measurements of A3e optical fibre connections.....                       | 20 |
| B.2.1 | General .....  | 20 |
| B.2.2 | Limits on EAF .....  | 21 |
|       | Bibliography.....  | 22 |
|       | Figure A.1 – Encircled flux template example.....  | 18 |
|       | Figure B.1 – Encircled angular flux template example .....   | 20 |
|       | Table 1 – Standard atmospheric conditions.....   | 12 |
|       | Table 2 – Expected variation of attenuation due to mode variation of single connections for A1-OM2, A1-OM3, A1-OM4 and A1-OM5 fibres ..... | 15 |
|       | Table 3 – Expected variation of attenuation due to mode variation of single connections for A3e fibre .....                                | 16 |
|       | Table A.1 – EF requirements for 50 µm core fibre at 850 nm .....   | 18 |
|       | Table A.2 – EF requirements for 50 µm core fibre at 1 300 nm.....  | 19 |
|       | Table A.3 – EF requirements for 62,5 µm fibre at 850 nm .....  | 19 |
|       | Table A.4 – EF requirements for 62,5 µm fibre at 1 300 nm .....  | 19 |
|       | Table B.1 – EAF requirements for NA of 0,37 and 200 µm core fibre at 850 nm .....  | 21 |

# INTERNATIONAL ELECTROTECHNICAL COMMISSION

---

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

### **Part 1: General and guidance**

#### **FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 61300-1 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 2016. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) addition of the information of measurement uncertainties in 4.2.1;
- b) change of the requirements for attenuation variation in 4.2.2;
- c) addition of the multimode launch conditions of other fibres than A1-OM2, A1-OM3, A1-OM4, A1-OM5 and A3e in 10.4;
- d) addition of the multimode launch conditions of the planar waveguide in 10.6;

- e) splitting Annex A for EF and Annex B for EAF;
- f) correction of errors in the definitions of encircled flux and encircled angular flux.

The text of this International Standard is based on the following documents:

| Draft         | Report on voting |
|---------------|------------------|
| 86B/4582/FDIS | 86B/4602/RVD     |

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

A list of all parts in the IEC 61300 series, published under the general title, *Fibre optic interconnecting and passive components – Basic test and measurement procedures*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

## INTRODUCTION

The publications in IEC 61300 series [1]<sup>1</sup> contain information on mechanical and environmental testing procedures and measurement procedures relating to fibre optic interconnecting devices and passive components. They are intended to be used to achieve uniformity and reproducibility in environmental testing procedures and measurement procedures.

The term "test procedure" refers to procedures commonly known as mechanical and environmental tests. The expressions "environmental conditioning" and "environmental testing" refer to the environments to which components or equipment may be exposed so that an assessment may be made of their performance under the conditions of use, transport and storage.

The term "measurement procedure" refers to those measurements which are necessary to assess the physical and optical characteristics of a component and may also be used before, during or after a test procedure to measure the effects of environmental conditioning or testing. The return loss and attenuation tests are examples of measurement procedures.

The requirements for the performance of components or equipment subjected to the test and measurement procedures described in this document are not included. The relevant specification for the device under test defines the allowed performance limits.

When drafting a specification or purchase contract, only those tests which are necessary for the relevant components or equipment taking into account the technical and economic aspects should be specified.

The mechanical and environmental test procedures are contained in IEC 61300-2 (all parts) and the measurement procedures in IEC 61300-3 (all parts). Each test or measurement procedure is published as a stand-alone publication so that it may be modified, expanded or cancelled without having an effect on any other test or measurement procedure. However, it should be noted that, where practical, reference is made to other standards as opposed to repeating all or part of already existing standards. As an example, the cold test for fibre optic apparatus refers to IEC 60068-2-1 [2], but it also provides other needed information such as purpose, recommended severities and a list of items to be specified.

Multiple methods may be contained in a test or measurement procedure. As an example, several methods of measuring attenuation are contained in the attenuation measurement procedure.

If more than one method is contained in a test or measurement procedure, the reference method may be identified.

The tests in this document permit the performance of components or equipment to be compared. To assess the overall quality of a production lot, the test procedures should be applied in accordance with a suitable sampling plan and may be supplemented by appropriate additional tests, if necessary.

To provide tests appropriate to the different intensities of an environmental condition, some of the test procedures have a number of degrees of severity. These different degrees of severity are obtained by varying the time, temperature or some other determining factor separately or in combination.

---

<sup>1</sup> Numbers in square bracket refer to the Bibliography.

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

## Part 1: General and guidance

### 1 Scope

This part of IEC 61300 provides general information and guidance for the basic test and measurement procedures defined in IEC 61300-2 (all parts) and IEC 61300-3 (all parts) for interconnecting devices, passive components, mechanical splices, fusion splice protectors, fibre management systems and protective housings.

This document is used in combination with the relevant specification which defines the tests to be used, the required degree of severity for each of them, their sequence, if relevant, and the permissible performance limits. In the event of conflict between this document and the relevant specification, the latter takes precedence.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60050-731, *International Electrotechnical Vocabulary – Part 731: Optical fibre communication* (available at [www.electropedia.org](http://www.electropedia.org))

IEC 60617, *Graphical symbols for diagrams* (available at <http://std.iec.ch/iec60617>)

IEC 60793-2-10, *Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres*

IEC 60793-2-30, *Optical fibres – Part 2-30: Product specifications – Sectional specification for category A3 multimode fibres*

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

IEC 60825-2, *Safety of laser products – Part 2: Safety of optical fibre communication systems (OFCs)*

IEC 61280-1-4, *Fibre optic communication subsystem test procedures – Part 1-4: General communication subsystems – Light source encircled flux measurement method*

IEC 61280-4-1, *Fibre-optic communication subsystem test procedures – Part 4-1: Installed cabling plant – Multimode attenuation measurement*

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 61300-3-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-1: Examinations and measurements – Visual examination*

IEC 61300-3-35, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-35: Examinations and measurements – Visual inspection of fibre optic connectors and fibre-stub transceivers*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**