



SLOVENSKI STANDARD SIST EN 61300-2-24:2002

01-september-2002

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-24: Tests - Screen testing of ceramic alignment split sleeve by stress application (IEC 61300-2-24:1999)

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-24: Tests - Screen testing of ceramic alignment split sleeve by stress application

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Grundlegende Prüf- und Meßverfahren -- Teil 2-24: Prüfungen - Sortierprüfung keramischer Zentrierhülsen mit Beanspruchung

[SIST EN 61300-2-24:2002](https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-)

<https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696->

Dispositifs d'interconnexion et composants passifs à fibres optiques - Méthodes fondamentales d'essais et de mesures -- Partie 2-24: Essais - Essai de sélection du manchon fendu d'alignement en céramique par l'application de contrainte

Ta slovenski standard je istoveten z: EN 61300-2-24:2000

ICS:

33.180.20 Ú[ç^: [çæ] ^Á æ |æç^Á æ Fibre optic interconnecting devices
[] cã } æçæ } æ

SIST EN 61300-2-24:2002

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61300-2-24:2002

<https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002>

EUROPEAN STANDARD

EN 61300-2-24

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2000

ICS 33.180.20

English version

Fibre optic interconnecting devices and passive components
Basic test and measurement procedures
Part 2-24: Tests - Screen testing of ceramic alignment split sleeve
by stress application
(IEC 61300-2-24:1999)

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

Partie 2-24: Essais - Essai de sélection du manchon fendu d'alignement en céramique par l'application de contrainte (CEI 61300-2-24:1999)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Grundlegende Prüf- und Meßverfahren

Teil 2-24: Prüfungen - Sortierprüfung keramischer Zentrierhülsen mit Beanspruchung (IEC 61300-2-24:1999)

[SIST EN 61300-2-24:2002](https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002)

<https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002>

This European Standard was approved by CENELEC on 2000-01-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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 document 86B/1242/FDIS, future edition 1 of IEC 61300-2-24, 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 61300-2-24 on 2000-01-01.

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) 2000-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-01-01

Endorsement notice

The text of the International Standard IEC 61300-2-24:1999 was approved by CENELEC as a European Standard without any modification.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 61300-2-24:2002](https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002)

<https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002>

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

61300-2-24

Première édition
First edition
1999-10

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

Partie 2-24:

**Essais – Essai de sélection du manchon fendu
d'alignement en céramique par l'application
de contrainte**

[SIST EN 61300-2-24:2002](https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002)

<https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002>

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

Basic test and measurement procedures –

Part 2-24:

**Tests – Screen testing of ceramic alignment split
sleeve by stress application**

© IEC 1999 Droits de reproduction réservés — Copyright - all rights reserved

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'éditeur.

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 the publisher.

International Electrotechnical Commission
Telefax: +41 22 919 0300

3, rue de Varembe Geneva, Switzerland
e-mail: inmail@iec.ch IEC web site <http://www.iec.ch>



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

N

Pour prix, voir catalogue en vigueur
For price, see current catalogue

CONTENTS

| | Page |
|--|------|
| FOREWORD | 5 |
| Clause | |
| 1 Scope and object | 9 |
| 2 General description..... | 9 |
| 3 Apparatus | 9 |
| 4 Procedure | 13 |
| 5 Details to be specified..... | 15 |
| Annex A (informative) Static fatigue for zirconia alignment sleeve | 17 |

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 61300-2-24:2002](https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002)

<https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002>

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

**Part 2-24: Tests – Screen testing of ceramic alignment split sleeve
 by stress application**

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 co-operation 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.
- 2) The formal decisions or agreements of the 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 National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61300-2-24 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/1242/FDIS | 86B/1277/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 3.

IEC 61300 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

The committee has decided that the contents of this publication will remain unchanged until 2003. At this date, the publication will be

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

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 61300-2-24:2002

<https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6b6b9cb89aed/sist-en-61300-2-24-2002>

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

**Part 2-24: Tests – Screen testing of ceramic alignment split sleeve
by stress application**

1 Scope and object

The purpose of this part of IEC 61300 is to identify weaknesses in a ceramic alignment split sleeve which could lead to early failure of the component.

2 General description

Ceramic alignment sleeves are important components often used in the adaptor of plug-adaptor-plug optical connector sets. By using the method described, the component is subjected to a proof stress greater than would be experienced under normal service conditions. This enables weak products to be screened out.

3 Apparatus

The apparatus and arrangement necessary to perform this screening procedure are shown in Figure 1. The material needed consists of the following:

- a) a reference gauge made of ceramic with a sleeve-holding section, a tapered section and a stress-applying section. The diameter of each section is dependent on the dimensions of the product being screened. The length of the sleeve-holding section and the stress-applying section should be greater than the component being tested;
- b) plates A and B, each having a clearance hole in the centre to allow the plate to move a sample of a ceramic alignment split sleeve on the reference gauge.

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

<https://standards.iteh.ai/catalog/standards/sist/3b75c0b3-2e46-4c56-8696-6bcb9cb9acd/sist-en-61300-2-24-2002>