

**SLOVENSKI STANDARD
SIST EN 61300-3-11:1999****01-maj-1999**

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-11: Examinations and measurements - Engagement and separation forces (IEC 61300-3-11:1995)

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 3-11: Examinations and measurements - Engagement and separation forces

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Grundlegende Prüf- und Meßverfahren -- Teil 3-11: Untersuchungen und Messungen - Steck- und Trennkräfte

Dispositifs d'interconnexion et composants passifs à fibres optiques - Méthodes fondamentales d'essais et de mesures -- Partie 3-11: Examens et mesures - Force d'accouplement et de désaccouplement

Ta slovenski standard je istoveten z: EN 61300-3-11:1997

ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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English version

**Fibre optic interconnecting devices and passive components
Basic test and measurement procedures
Part 3-11: Examinations and measurements
Engagement and separation forces
(IEC 61300-3-11:1995)**

Dispositifs d'interconnexion et
composants passifs à fibres optiques
Méthodes fondamentales d'essais et
de mesures
Partie 3-11: Examens et mesures
Force d'accouplement et de
désaccouplement
(CEI 61300-3-11:1995)

Lichtwellenleiter - Verbindungselemente
und passive Bauteile - Grundlegende
Prüf- und Meßverfahren
Teil 3-11: Untersuchungen und
Messungen - Steck- und Trennkräfte
(IEC 61300-3-11:1995)

This European Standard was approved by CENELEC on 1997-07-01. 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.

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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 61300-3-11:1995, 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 61300-3-11 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 61300-3-11:1995 was approved by CENELEC as a European Standard without any modification.

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

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Partie 3-11:

Examens et mesures –

Force d'accouplement et de désaccouplement

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

Part 3-11:

Examinations and measurements –

Engagement and separation forces

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

**Part 3-11: Examinations and measurements –
Engagement and separation forces**

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.
- 2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, 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.

International Standard IEC 1300-3-11 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/525/DIS	86B/597/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 3-11: Examinations and measurements – Engagement and separation forces

1 General

1.1 *Scope and object*

The purpose of this part of IEC 1300 is to measure the forces or torques which are required to fully couple or uncouple an optical connector set.

1.2 *General description*

The connector set components are mounted so that a controlled coupling force or torque can be applied. The force or torque is measured during the entire coupling and/or uncoupling cycle. The procedure is applicable to either twist or push-pull type coupling mechanisms.

2 Apparatus

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The apparatus shall consist of the following elements.

2.1 *Holding fixture(s)*

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The holding fixtures shall be capable of holding the mating components so that they do not influence the measured force or torque value. Proper alignment of the mating components shall be maintained throughout the coupling cycle.

2.2 *Force or torque generator*

The force or torque generator shall be capable of smoothly applying the force or torque.

2.3 *Force or torque measuring instrument*

The measuring instrument shall be capable of continuously measuring the force or torque throughout the coupling cycle.

3 Procedure

3.1 Pre-condition the specimen as specified.

3.2 Visually examine the connector set components in the holding fixture(s).

3.3 Position the connector set components in the holding fixture(s).

3.4 Apply and measure the force or torque to mate the connector set. Unless otherwise specified, the mating time shall be 3 s minimum.

3.5 Apply and measure the force or torque to unmate the connector set. Unless otherwise specified, the unmating time shall be 3 s minimum.

4 Details to be specified

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

- Preconditioning procedures
- Allowable engagement force or torque
- Allowable separation force or torque
- Deviations from measuring procedure

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