

<b>STN</b>	<b>Optovláknové spájacie prvky a pasívne súčiastky. Základné skúšobné a meracie postupy. Časť 2-43: Skúšky. Triediace skúšanie jednovládových optovláknových konektorov typu PC v závislosti od strát odrazom.</b>	<b>STN EN 61300-2-43</b>  35 9252
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Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-43: Tests - Screen testing of return loss of single-mode PC optical fibre connectors

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. 03/15

Obsahuje: EN 61300-2-43:2014, IEC 61300-2-43:2014

Oznámením tejto normy sa od 24.07.2015 ruší  
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Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

**EN 61300-2-43**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2014

ICS 33.180.20

Supersedes EN 61300-2-43:1999

English Version

**Fibre optic interconnecting devices and passive components -  
Basic test and measurement procedures - Part 2-43: Tests -  
Screen testing of return loss of single-mode PC optical fibre  
connectors  
(IEC 61300-2-43:2014)**

Dispositifs d'interconnexion et composants passifs à fibres optiques - Procédures fondamentales d'essais et de mesures - Partie 2-43: Essais - Sélection des connecteurs PC pour fibres optiques unimodales en fonction de leur affaiblissement de réflexion (CEI 61300-2-43:2014)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Grundlegende Prüf- und Messverfahren - Teil 2-43: Prüfungen - Verfahren zur Sortierprüfung von Einmoden-PC-LWL-Steckverbindern in Abhängigkeit von der Rückflussdämpfung (IEC 61300-2-43:2014)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

The text of document 86B/3669/CDV, future edition 2 of IEC 61300-2-43, 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 61300-2-43:2014.

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) 2015-04-24
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IEC 61300-1                      NOTE                      Harmonized as EN 61300-1.

## **Annex ZA** (normative)

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

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-3-6	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6	-



# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 2-43: Tests – Screen testing of return loss of single-mode PC optical fibre connectors**

**Dispositifs d'interconnexion et composants passifs à fibres optiques –  
Procédures fondamentales d'essais et de mesures –  
Partie 2-43: Essais – Sélection des connecteurs PC pour fibres optiques unimodales en fonction de leur affaiblissement de réflexion**





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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 2-43: Tests – Screen testing of return loss of single-mode PC optical fibre connectors**

**Dispositifs d'interconnexion et composants passifs à fibres optiques –  
Procédures fondamentales d'essais et de mesures –  
Partie 2-43: Essais – Sélection des connecteurs PC pour fibres optiques unimodales en fonction de leur affaiblissement de réflexion**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES  
AND PASSIVE COMPONENTS –  
BASIC TEST AND MEASUREMENT PROCEDURES –****Part 2-43: Tests – Screen testing of return loss of  
single-mode PC optical fibre connectors**

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International Standard IEC 61300-3-43 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition of IEC 61300-3-43 cancels and replaces the first edition published in 1999 and constitutes a technical revision.

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

- a) revision of the scope;
- b) revision of the procedure;
- c) addition of measurement uncertainty into the 'Details to be specified';
- d) addition of a bibliography.

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

CDV	Report on voting
86B/3669/CDV	86B/3755/RVC

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.

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.

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

**Part 2-43: Tests – Screen testing of return loss of  
single-mode PC optical fibre connectors**

## **1 Scope**

This part of IEC 61300 aims at screening single-mode physical contact (PC) optical fibre connectors of an optical fibre cord or an optical fibre pigtail in terms of return loss, thus ensuring minimum return loss when the connectors, which have been screen tested by this method, are randomly mated with each other in the field.

## **2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61300-3-6, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-6: Examinations and measurements – Return loss*

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