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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

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

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English Version

**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
(IEC 61300-3-35:2015)**

Dispositifs d'interconnexion et composants passifs à fibres
optiques - Procédures fondamentales d'essais et de
mesures - Partie 3-35: Examens et mesures - Examen
visuel des connecteurs à fibres optiques et des émetteurs-
récepteurs à embase fibrée
(IEC 61300-3-35:2015)

Lichtwellenleiter - Verbindungselemente und passive
Bauteile - Grundlegende Prüf- und Messverfahren - Teil 3-
35: Untersuchungen und Messungen - Visuelle Inspektion
von Lichtwellenleiter-Steckverbindern und Faser Stub-
Transceivern
(IEC 61300-3-35:2015)

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European foreword

The text of document 86B/3886/FDIS, future edition 2 of IEC 61300-3-35, 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 61300-3-35:2015.

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IEC 60825-2	NOTE	Harmonized as EN 60825-2
IEC 61300-1	NOTE	Harmonized as EN 61300-1
IEC 61755 (Series)	NOTE	Harmonized as EN 61755 (Series)



INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

Dispositifs d'interconnexion et composants passifs à fibres optiques –

Procédures fondamentales d'essais et de mesures –

Partie 3-35: Examens et mesures – Examen visuel des connecteurs à fibres optiques et des émetteurs-récepteurs à embase fibrée



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INTERNATIONAL STANDARD

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**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**

FOREWORD

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International Standard IEC 61300-3-35 has been prepared by subcommittee SC86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2009 and constitutes a technical revision.

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

- a) modification to the title;
- b) addition of some terms and definitions;

- c) reconsideration of the specific values of Tables 1 to 4 to reflect the current market situation;
- d) addition of visual requirements for single-mode transceivers using a fibre-stub interface in Table 3;
- e) addition of a sentence in 4.1 concerning the susceptibility of the methods to system variability.

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

FDIS	Report on voting
86B/3886/FDIS	86B/3912/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 2.

A list of all parts in the IEC 61300 series, published under the general title *Fibre optic interconnecting devices 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 3-35: Examinations and measurements – Visual inspection of fibre optic connectors and fibre-stub transceivers

1 Scope

This part of IEC 61300 describes methods for quantitatively assessing the end face quality of a polished fibre optic connector or of a fibre optic transceiver using a fibre-stub type interface. Sub-surface cracks and fractures are not considered in this standard. In general, the methods described in this standard apply to 125 µm cladding fibres contained within a ferrule and intended for use with sources of ≤ 2 W of input power. However, portions are applicable to non-ferruled connectors and other fibre types. Those portions are identified where appropriate. It is not the intention of this standard that the size of scratches should be measured, the dimensions and requirements are selected such that they can be estimated. There is no need to measure for example if a scratch is 2,3 µm wide.

2 Normative references

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