



# PRE-RELEASE VERSION (FDIS)

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**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 3-30: Examinations and measurements – Endface geometry of rectangular ferrule**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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FINAL DRAFT INTERNATIONAL STANDARD (FDIS)

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SECRETARIAT:

Japan

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OF INTEREST TO THE FOLLOWING COMMITTEES:

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SUBMITTED FOR CENELEC PARALLEL VOTING

NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

**Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-30: Examinations and measurements - Endface geometry of rectangular ferrule**

PROPOSED STABILITY DATE: 2030

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

#### **Part 3-30: Examinations and measurements – Endface geometry of rectangular ferrule**

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International Standard IEC 61300-3-30 has been prepared by subcommittee 86B: 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 2003. This edition constitutes a technical revision.

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

- a) measurement of the individual fibre tip radii;
- b) introduction of the geometry limit (GL) metric;
- c) introduction of the minus coplanarity metric;
- d) new method for measuring the core dips;
- e) all measurement regions are now identical for MM and SM fibres;

f) the ferrule surface angle sign convention has been changed.

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

FDIS	Report on voting
86B/XX/FDIS	86B/XX/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document 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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<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.

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

**Part 3-30: Examinations and measurements –  
Endface geometry of rectangular ferrule**

**1 Scope**

This part of IEC 61300 describes a method of measuring the end face geometry of rectangular multifibre ferrules having an IEC defined optical interface. The primary attributes are fibre position relative to the end face, either withdrawal or protrusion, end face angle relative to the guide pin bores, fibre tip radii and core dip for multimode fibres.

**2 Normative references**

There are no normative references in this document.