

INTERNATIONAL STANDARD

**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 ELECTROTECHNICAL COMMISSION

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FOREWORD

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IEC 61300-3-30 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics. It is an International Standard.

This third edition cancels and replaces the second edition published in 2020. This edition constitutes a technical revision.

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

- a) clarification of region diameter symbols;
- b) introduction of x116 and x132 region of interest (ROI) to support MT-16 and MT-32 ferrule types;
- c) preparation of geometry limit (GL) parameter tables for 16-, 24- and 32-fibre ferrules;
- d) clarification of the neighbouring fibres definition when computing adjacent height;
- e) improvement of figures in Annexes.

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

Draft	Report on voting
86B/5224/FDIS	86B/5250/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

A list of all parts in the IEC 61300 series, published under the general title *Fibre optic interconnecting devices and passive components*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

1 Scope

This part of IEC 61300 describes a method for measuring the endface geometry of rectangular multifibre ferrules having an IEC defined optical interface. The primary attributes are fibre position relative to the endface, endface angle relative to the guide holes, fibre tip radii and core dip for multimode fibres.

2 Normative references

There are no normative references in this document.

Bibliography

IEC 61300 (all parts), *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures*

IEC 61755-3-31:2015, *Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-31: Connector parameters of non-dispersion shifted single mode physically contacting fibres - Angled polyphenylene sulphide rectangular ferrules*

IEC 61755-3-32:2015, *Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-32: Connector parameters of non-dispersion shifted single mode physically contacting fibres - Angled thermoset epoxy rectangular ferrules*

IEC PAS 63267-3-30:2021, *Fibre optic interconnecting devices and passive components - Fibre optic connector optical interfaces - Part 3-30: End face geometry - Angled PC end face PPS rectangular ferrule multimode A1b fibres*

IEC PAS 63267-3-31:2020, *Fibre optic interconnecting devices and passive components - Fibre optic connector optical interfaces - Part 3-31: End face geometry - Flat PC PPS rectangular ferrule multimode fibres*

IEC 61754-5:2005, *Fibre optic connector interfaces - Part 5: Type MT connector family*

IEC 61754-7 (all parts), *Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Type MPO connector family*
