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Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-46: Examinations and measurements - Bore diameter in rectangular ferrules

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. 10/25

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EUROPEAN STANDARD

EN IEC 61300-3-46

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 61300-3-46:2011

English Version

**Fibre optic interconnecting devices and passive components -
Basic test and measurement procedures - Part 3-46:
Examinations and measurements - Bore diameter in rectangular
ferrules
(IEC 61300-3-46:2025)**

Dispositifs d'interconnexion et composants passifs
fibroniques - Procédures fondamentales d'essais et de
mesures - Partie 3-46 : Examens et mesures - Diamètre de
l'alésage dans les férules rectangulaires
(IEC 61300-3-46:2025)

Lichtwellenleiter - Verbindungselemente und passive
Bauteile - Grundlegende Prüf- und Messverfahren - Teil 3-
46: Messung - Bohrungsdurchmesser in MT-Ferrulen
(IEC 61300-3-46:2025)

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EN IEC 61300-3-46:2025 (E)**European foreword**

The text of document 86B/5027/FDIS, future edition 2 of IEC 61300-3-46, 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 IEC 61300-3-46:2025.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2026-07-31
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance	EN IEC 61300-1	-
IEC 61300-3-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination	EN 61300-3-1	-
IEC 61754	series	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 1: General and guidance	EN 61754	series



IEC 61300-3-46

Edition 2.0 2025-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –
Part 3-46: Examinations and measurements – Bore diameter in rectangular ferrules**

**Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –
Partie 3-46 : Examens et mesures – Diamètre de l'alésage dans les férules rectangulaires**



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IEC Secretariat
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –**Part 3-46: Examinations and measurements –
Bore diameter in rectangular ferrules**

FOREWORD

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IEC 61300-3-46 has been prepared by subcommittee SC86B: Fibre optic interconnecting devices and passive components, of IEC technical committee TC86: Fibre optics. It is an International Standard.

This second edition cancels and replaces the first edition published in 2011. This edition constitutes a technical revision.

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

- a) addition of fibre bore measurement;
- b) addition of force gauge method;
- c) addition of Annex A on temperature dependence.

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

Draft	Report on voting
86B/5027/FDIS	86B/5064/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 – Basic test and measurement procedures*, 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.

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

Part 3-46: Examinations and measurements – Bore diameter in rectangular ferrules

1 Scope

The purpose of this part of IEC 61300 is to provide a standard for the measurement of guide pin bore and fibre bore diameters for rectangular ferrules used in connectors specified in the IEC 61754 series.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61300-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 1: General and guidance*

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IEC 61754 (all parts), *Fibre optic connector interfaces*

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