

STN	Optické vlákna Časť 1-60: Metódy merania a skúšobné postupy Záznejová dĺžka	STN EN 60793-1-60 35 9213
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Optical fibres - Part 1-60: Measurement methods and test procedures - Beat length

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. 11/17

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EUROPEAN STANDARD

EN 60793-1-60

NORME EUROPÉENNE

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May 2017

ICS 33.180.10

English Version

**Optical fibres - Part 1-60: Measurement methods and test procedures - Beat length
(IEC 60793-1-60:2017)**

Fibres optiques - Partie 1-60: Méthodes de mesure et procédures d'essai - Longueur de battement
(IEC 60793-1-60:2017)

Lichtwellenleiter - Teil 1-60: Messmethoden und Prüfverfahren - Schwebungslänge
(IEC 60793-1-60:2017)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

European foreword

The text of document 86A/1737/CDV, future edition 1 of IEC 60793-1-60, prepared by SC 86A "Fibres and cables" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60793-1-60:2017.

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) 2017-12-14
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In the official version, for Bibliography, the following note has to be added for the standard indicated :

IEC 60793-2 NOTE Harmonized as EN 60793-2.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When 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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60793-1-1	-	Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance	EN 60793-1-1	-
IEC 60793-1-48	-	Optical fibres - Part 1-48: Measurement methods and test procedures - Polarization mode dispersion	EN 60793-1-48	-
IEC 60793-2-70	-	Optical fibres - Part 2-70: Product specifications - Sectional specification for polarization-maintaining fibres	EN 60793-2-70	-



INTERNATIONAL STANDARD



**Optical fibres –
Part 1-60: Measurement methods and test procedures – Beat length**





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INTERNATIONAL STANDARD



**Optical fibres –
Part 1-60: Measurement methods and test procedures – Beat length**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRES –

**Part 1-60: Measurement methods and test procedures –
Beat length**

FOREWORD

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International Standard IEC 60793-1-60 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

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

CDV	Report on voting
86A/1737/CDV	86A/1782/RVC

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 60793 series, published under the general title *Optical fibres*, 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

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- withdrawn,
- replaced by a revised edition, or
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OPTICAL FIBRES –

Part 1-60: Measurement methods and test procedures – Beat length

1 Scope

This part of IEC 60793 defines test methods for both the phase beat length, and the group beat length. These two parameters are defined differently, and will give different results depending on the type of polarization-maintaining (PM) fibre.

The phase beat length is the relevant parameter for the fibres ability to maintain a high extinction ratio. This is described in more details in Annexes A and B.

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 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60793-1-1, *Optical fibres – Part 1-1: Measurement methods and test procedures – General and guidance*

IEC 60793-1-48, *Optical fibres – Part 1-48: Measurement methods and test procedures – Polarization mode dispersion*

IEC 60793-2-70¹, *Optical fibres – Part 2-70: Product specifications – Sectional specifications for polarization-maintaining fibres*

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