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Optical fibres - Part 1-45: Measurement methods and test procedures - Mode field diameter

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. 06/18

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English Version

**Optical fibres - Part 1-45: Measurement methods and test
procedures - Mode field diameter
(IEC 60793-1-45:2017)**

Fibre optiques - Partie 1-45: Méthodes de mesure et
procédures d'essai - Diamètre du champ de mode
(IEC 60793-1-45:2017)

Lichtwellenleiter - Teil 1-45: Messmethoden - Messung des
Modenfelddurchmessers
(IEC 60793-1-45:2017)

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Europäisches Komitee für Elektrotechnische Normung

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EN IEC 60793-1-45:2018 (E)**European foreword**

The text of document 86A/1758/CDV, future edition 2 of IEC 60793-1-45, prepared by IEC/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 IEC 60793-1-45:2018.

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) 2018-09-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-12-14

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-1-40 (mod)	2001	Optical fibres -- Part 1-40: Measurement methods and test procedures - Attenuation	EN 60793-1-40	2003
IEC 60793-2	-	Optical fibres -- Part 2: Product specifications.	-	-



IEC 60793-1-45

Edition 2.0 2017-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Optical fibres –
Part 1-45: Measurement methods and test procedures – Mode field diameter**

**Fibres optiques –
Partie 1-45: Méthodes de mesure et procédures d'essai – Diamètre du champ de
mode**





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IEC 60793-1-45

Edition 2.0 2017-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibres –

Part 1-45: Measurement methods and test procedures – Mode field diameter

Fibres optiques –

Partie 1-45: Méthodes de mesure et procédures d'essai – Diamètre du champ de mode

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CONTENTS

FOREWORD	5
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 General consideration about mode field diameter	7
5 Reference test method	8
6 Apparatus	8
6.1 General	8
6.2 Light source	8
6.3 Input optics	9
6.4 Input positioner	9
6.5 Cladding mode stripper	9
6.6 High-order mode filter	9
6.7 Output positioner	9
6.8 Output optics	9
6.9 Detector	9
6.10 Computer	9
7 Sampling and specimens	10
7.1 Specimen length	10
7.2 Specimen end face	10
8 Procedure	10
9 Calculations	10
9.1 Basic equations	10
9.2 Method A – Direct far-field scan	10
9.3 Method B – Variable aperture in the far field	11
9.4 Method C – Near-field scan	11
10 Results	12
10.1 Information available with each measurement	12
10.2 Information available upon request	12
11 Specification information	12
Annex A (normative) Requirements specific to method A – Mode field diameter by direct far-field scan	14
A.1 Apparatus	14
A.1.1 General	14
A.1.2 Scanning detector assembly – Signal detection electronics	14
A.1.3 Computer	14
A.2 Procedure	15
A.3 Calculations	15
A.3.1 Determine folded power curve	15
A.3.2 Compute the top (T) and bottom (B) integrals of Equation (1)	15
A.3.3 Complete the calculation	15
A.4 Sample data	16
Annex B (normative) Requirements specific to method B – Mode field diameter by variable aperture in the far field	17
B.1 Apparatus	17

B.1.1	General	17
B.1.2	Output variable aperture assembly	17
B.1.3	Output optics system	18
B.1.4	Detector assembly and signal detection electronics	18
B.2	Procedure	18
B.3	Calculations	18
B.3.1	Determine complementary aperture function	18
B.3.2	Complete the integration	19
B.3.3	Complete the calculation	19
B.4	Sample data	19
Annex C (normative)	Requirements specific to method C – Mode field diameter by near-field scan	20
C.1	Apparatus	20
C.1.1	General	20
C.1.2	Magnifying output optics	20
C.1.3	Scanning detector	20
C.1.4	Detection electronics	21
C.2	Procedure	21
C.3	Calculations	21
C.3.1	Calculate the centroid	21
C.3.2	Fold the intensity profile	22
C.3.3	Compute the integrals	22
C.3.4	Complete the calculation	22
C.4	Sample data	23
Annex D (normative)	Requirements specific to method D – Mode field diameter by optical time domain reflectometer (OTDR)	24
D.1	General	24
D.2	Apparatus	24
D.2.1	OTDR	24
D.2.2	Optional auxiliary switches	24
D.2.3	Optional computer	25
D.2.4	Test sample	25
D.2.5	Reference sample	25
D.3	Procedure	25
D.3.1	Orientation and notation	25
D.4	Calculations	26
D.4.1	Reference fibre mode field diameter	26
D.4.2	Computation of the specimen mode field diameter	27
D.4.3	Validation	27
Annex E (informative)	Sample data sets and calculated values	29
E.1	General	29
E.2	Method A – Mode field diameter by direct far-field scan	29
E.3	Method B – Mode field diameter by variable aperture in the far field	30
E.4	Method C – Mode field diameter by near-field scan	30
Figure 1	– Transform relationships between measurement results	8
Figure A.1	– Far-field measurement set	14
Figure B.1	– Variable aperture by far-field measurement set	17

Figure C.1 – Near-field measurement set-ups	20
Figure D.1 – Optical switch arrangement	25
Figure D.2 – View from reference fibre A	26
Figure D.3 – View from reference fibre B	26
Figure D.4 – Validation example – Comparison of methods.....	27
Table E.1 – Sample data, method A – Mode field diameter by direct far-field scan	29
Table E.2 – Sample data set, method B – Mode field diameter by variable aperture in the far field	30
Table E.3 – Sample data set, method C – Mode field diameter by near-field scan	30

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**OPTICAL FIBRES –
Part 1-45: Measurement methods and test procedures –
Mode field diameter**

FOREWORD

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International Standard IEC 60793-1-45 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2001. This edition constitutes a technical revision.

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

- a) improvement of the description of measurement details for B6 fibre;
- b) correction of Equations (1), (2),(5) and (6);
- c) correction of Table E.1, Table E.2 and Table E.3.

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

CDV	Report on voting
86A/1758/CDV	86A/1802/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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

OPTICAL FIBRES –

Part 1-45: Measurement methods and test procedures – Mode field diameter

1 Scope

This part of IEC 60793 establishes uniform requirements for measuring the mode field diameter (MFD) of single-mode optical fibre, thereby assisting in the inspection of fibres and cables for commercial purposes.

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 60793-1-40:2001, *Optical fibres – Part 1-40: Measurement methods and test procedures – Attenuation*

IEC 60793-2, *Optical fibres – Part 2: Product specifications – General*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN