

SLOVENSKI STANDARD SIST EN 60793-2:2016

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Nadomešča:

SIST EN 60793-2:2012

Optična vlakna - 2. del: Specifikacije izdelka - Splošno (IEC 60793-2:2015)

Optical fibres - Part 2: Product specifications - General (IEC 60793-2:2015)

Lichtwellenleiter - Teil 2: Produktspezifikationen - Allgemeines

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Fibres optiques - Partie 2: Spécifications de produits - Généralités (standards.iteh.ai)

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English Version

Optical fibres - Part 2: Product specifications - General (IEC 60793-2:2015)

Fibres optiques - Partie 2: Spécifications de produits -Généralités (IEC 60793-2:2015) Lichtwellenleiter - Teil 2: Produktspezifikationen -Allgemeines (IEC 60793-2:2015)

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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

EN 60793-2:2016

European foreword

The text of document 86A/1645/CDV, future edition 8 of IEC 60793-2, 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 60793-2:2016.

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)	2016-12-17
	Standard or by chaorsement		

 latest date by which the national standards conflicting with the document have to be withdrawn

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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>	EN/HD	<u>Year</u>
IEC 60304	-	Standard colours for insulation for low-	HD 402 S2	-
		frequency cables and wires		
IEC 60793-1	series	Optical fibres	EN 60793-1	series
IEC 60793-2-10	-		EN 60793-2-10	-
IEC 60793-2-20	-		EN 60793-2-20	-
IEC 60793-2-30	-		EN 60793-2-30	-
IEC 60793-2-40	-	Optical fibres Part 40: Product	EN 60793-2-40	-
		specifications - Sectional specification for		
		category A4 multimode fibres		
IEC 60793-2-50	-	Optical fibres Part 2-50: Product	EN 60793-2-50	-
		specifications - Sectional specification for		
		class B single-mode fibres		
IEC 60793-2-60	- : -	Optical fibres - Part 2-60: Product	EN 60793-2-60	-
	110	specifications - Sectional specification for	L VV	
		category C single-mode intraconnection		
		fibres Standards. Item.al)		

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



Optical fibres - iTeh STANDARD PREVIEW

Part 2: Product specifications - General siteh.ai)

Fibres optiques – SIST EN 60793-2:2016

Partie 2: Spécifications de produits Tan Généralités 63-3 fec-452 d-89e7-

319cbfffe682/sist-en-60793-2-2016

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRES -

Part 2: Product specifications – General

FOREWORD

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International Standard IEC 60793-2 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This eighth edition cancels and replaces the seventh edition published in 2011. This edition constitutes a technical revision which was necessary due to the addition of new fibre models to the A1 category in IEC 60793-2-10.

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

- a) addition of two new sub-categories A3f and A3g indicated "under consideration" as they have not yet been fully standardized at the moment of finalizing this document;
- b) modification of the Numerical aperture heading in Table 3 in line with recent modifications in all A1, A2, A3 and A4 multimode product specifications (NA_{ff} only).

This standard is to be read in conjunction with the IEC 60793-1 series.

IEC 60793-2:2015 © IEC 2015

The text of this standard is based on the following documents:

CDV	Report on voting
86A/1645/CDV	86A/1663/RVC

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

This publication 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 publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

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IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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OPTICAL FIBRES -

Part 2: Product specifications – General

1 Scope

This part of IEC 60793 contains the general specifications for both multimode and single-mode optical fibres.

Sectional specifications for each of the four categories multimode fibres: A1, A2, A3, and A4 (part of the multimode fibre class A) contain requirements specific to each category.

Sectional specifications for each of the two single-mode fibre classes, B and C, contain requirements common to each class.

Each sectional specification includes family specifications (in normative annexes) that contain requirements for the applicable category or sub-categories. These sub-categories are distinguished on the basis of different fibre types or applications.

The requirements of this standard apply to all classes.

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Each sectional specification contains the requirements that are common to all the family specifications that are within it. These common requirements are copied to the family specification for ease of reference.

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Tests or measurement methods are defined for each specified attribute. Where possible, these definitions are by reference to an IEC standard – otherwise the test or measurement method is outlined in the relevant sectional specification.

Table 1 defines the sectional specifications. The relevant family specifications are defined within the sectional specifications as normative annexes (see Tables 2 to 5).

Annexes A and B summarize the existing fibre specifications.

Table 1 - Sectional specifications

Document ID	Fibre category / class	Cladding material	Core material	Index profile
IEC 60793-2-10	A1 multimode	Glass	Glass	Graded
IEC 60793-2-20	A2 multimode	Glass	Glass	Quasi-step or step
IEC 60793-2-30	A3 multimode	Plastic	Glass	Step or graded (under consideration)
IEC 60793-2-40	A4 multimode	Plastic	Plastic	Step, multi-step or graded
IEC 60793-2-50	B single-mode	Glass	Glass	Not applicable
IEC 60793-2-60	C single-mode	Glass	Glass	Not applicable