

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Optical fibres –  
Part 2-30: Product specifications – Sectional specification for category A3  
multimode fibres**

**Fibres optiques –  
Partie 2-30: Spécifications de produits – Spécification intermédiaire pour  
les fibres multimodales de catégorie A3**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## OPTICAL FIBRES –

**Part 2-30: Product specifications –  
Sectional specification for category A3 multimode fibres**

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International Standard IEC 60793-2-30 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This fourth edition cancels and replaces the third edition published in 2012 and constitutes a technical revision.

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

- specified test specimen length and measurement details for core diameter and  $NA_{ff}$  measurements have been added.
- two new sub-categories have been added
- $NA_{th}$  is replaced by  $NA_{ff}$

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

FDIS	Report on voting
86A/1661/FDIS	86A/1662/RVD

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 of the IEC 60793 series can be found, under the general title *Optical fibres*, 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 web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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- withdrawn,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

### Part 2-30: Product specifications – Sectional specification for category A3 multimode fibres

#### 1 Scope

This part of IEC 60793-2 is applicable to sub-categories A3a, A3b, A3c, A3d, A3e, A3f and A3g. These fibres are used or can be incorporated in different information transmission equipment, other applications employing similar light transmitting techniques as well as fibre optic cables.

Three types of requirements apply to these fibres:

- general requirements, as defined in IEC 60793-2;
- specific requirements common to the category A3 multimode fibres covered in this standard and which are given in Clause 3;
- particular requirements applicable to the individual sub-categories or specific applications (e.g. automotive or industrial applications), which are defined in the normative sub-category annexes.

#### 2 Normative references

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.

IEC 60793-1-20, *Optical fibres – Part 1-20: Measurement methods and test procedures – Fibre geometry*

IEC 60793-1-21, *Optical fibres – Part 1-21: Measurement methods and test procedures – Coating geometry*

IEC 60793-1-22, *Optical fibres – Part 1-22: Measurement methods and test procedures – Length measurement*

IEC 60793-1-30, *Optical fibres – Part 1-30: Measurement methods and test procedures – Fibre proof test*

IEC 60793-1-31, *Optical fibres – Part 1-31: Measurement methods and test procedures – Tensile strength*

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

IEC 60793-1-41, *Optical fibres – Part 1-41: Measurement methods and test procedures – Bandwidth*

IEC 60793-1-43, *Optical fibres – Part 1-43: Measurement methods and test procedures – Numerical aperture*