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INTERNATIONAL STANDARD

**Optical fibre cables –
Part 2-30: Indoor cables – Family specification for ribbon cables**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

Part 2-30: Indoor cables – Family specification for ribbon cables

FOREWORD

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International Standard IEC 60794-2-30 has been prepared by sub-committee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2003. It constitutes a technical revision. The main changes are listed below:

- a) subclause 5.4 has been detailed according to the fibre type;
- b) Annex A has been added to show an example of cable construction;
- c) Annex B has been added which is a blank detail specification including Mice classification and requirements;
- d) a bibliography has been added

This standard shall be used in conjunction with IEC 60794-1-1 and IEC 60794-1-2, and IEC 60794-2.

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

FDIS	Report on voting
86A/1233/FDIS	86A/1244/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 IEC 60794 series, published under the general title *Optical fibre cables*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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

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- withdrawn,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

A bilingual version of this publication may be issued at a later date.

OPTICAL FIBRE CABLES –

Part 2-30: Indoor cables – Family specification for ribbon cables

1 Scope

This part of IEC 60794 is a family specification which covers optical fibre ribbon cables for indoor use. The requirements of the sectional specification IEC 60794-2 are applicable to cables covered by this standard.

Clause B.2 contains requirements that supersede the normal requirements in case the cables are intended to be used in installations governed by the MICE table of ISO/IEC 24702.

2 Normative references

The following referenced documents are indispensable for the application 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.

These documents complete the normative references already listed in the generic specification (IEC 60794-1-1, Clause 2, and IEC 60794-1-2, Clause 2) or in the sectional specification (IEC 60794-2, Clause 2).

IEC 60304:1982, *Standard colours for insulation for low-frequency cables and wires.*

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

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

IEC 60793-1-44, *Optical fibres – Part 1-44: Measurement methods and test procedures – Cutoff wavelength*

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

IEC 60793-2-10, *Optical fibres – Part 2-10, Product specifications – Sectional specification for category A1 multimode fibres*

IEC 60794-1-1, *Optical fibre cables – Part 1-1: Generic specification – General 86A/1054/NP*

IEC 60794-1-2, *Optical fibre cables – Part 1-2: Generic specification – Basic optical cable test procedures*

IEC 60794-2, *Optical fibre cables – Part 2: Indoor cables – Sectional specification*

IEC 60794-3, *Optical fibre cables – Part 3: Sectional specification – Outdoor cables*

IEC 60811-1-1:1993, *Common test methods for insulating and sheathing materials of electric cables and optical cables – Part 1-1: Methods for general application – Measurement of thickness and overall dimensions – Tests for determining the mechanical properties*

IEC 60811-1-4:1985, *Common test methods for insulating and sheathing materials of electric cables – Part 1: Methods for general application – Section Four: Tests at low temperatures.*