

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Optical fibre cables –

Part 2-30: Indoor cables – Family specification for optical fibre ribbon cables for use in terminated cable assemblies

Câbles à fibres optiques –

Partie 2-30: Câbles intérieurs – Spécification de famille pour les câbles à rubans de fibres optiques utilisés dans les assemblages de câbles connectés



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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	7
4 Construction	7
4.1 General.....	7
4.2 Optical fibres and primary coating.....	7
4.3 Buffer.....	8
4.4 Ruggedized fibre.....	8
4.5 Slotted core	8
4.6 Tube	8
4.7 Stranded loose tube.....	8
4.8 Ribbon structure	8
4.9 Strength and anti-buckling members	8
4.10 Ripcord.....	8
4.11 Sheath.....	8
4.12 Sheath marking.....	8
4.13 Identification	8
4.14 Example of cable construction	9
5 Dimensions.....	9
5.1 Optical fibres and primary coating.....	9
5.2 Ribbon structural geometry	9
5.3 Optical fibre ribbon cable	9
6 Tests	10
6.1 General.....	10
6.2 Dimensions.....	10
6.3 Mechanical requirements	10
6.3.1 Cable tensile performance	10
6.3.2 Cable crush.....	11
6.3.3 Cable impact.....	11
6.3.4 Cable bending	11
6.3.5 Cable repeated bending.....	11
6.3.6 Cable bending under tension	11
6.3.7 Cable bending at low temperature	11
6.3.8 Cable flexing	12
6.3.9 Cable torsion	12
6.3.10 Cable kink	12
6.4 Environmental requirements – Temperature cycling	12
6.5 Transmission requirements	13
6.5.1 General	13
6.5.2 Single mode optical fibres.....	13
6.5.3 Single-mode dispersion unshifted optical fibre (B1.1).....	13
6.5.4 Single-mode dispersion unshifted optical fibre (B1.2).....	13
6.5.5 Single-mode dispersion unshifted optical fibre (B1.3).....	14
6.5.6 Single-mode dispersion shifted optical fibre (B2)	14

6.5.7	Single-mode non-zero dispersion optical fibre (B4)	14
6.5.8	Single-mode wide band non-zero dispersion optical fibre (B5)	14
6.5.9	Single-mode bending loss insensitive optical fibre (B6)	15
6.5.10	Multimode fibres	15
6.6	Fire performance	15
Annex A (informative) Example of cable construction		16
Annex B (informative) Family specification indoor cables – Optical fibre ribbon cables		17
B.1	Blank detail specification	17
B.1.1	Cable description	17
B.1.2	Cable element	18
B.1.3	Cable construction	18
B.1.4	Installation and operating conditions	18
B.1.5	Mechanical, environmental and fire performance tests	19
B.2	Cables subject to the MICE environmental classification (ISO 11801-3 and related standards)	19
Bibliography		21
Figure 1 – Example of identification by means of colour coding and positioning		9
Figure A.1 – Example of cross-section of a four-fibre ribbon cable		16
Table 1 – Dimensions of optical fibre ribbon cables		10
Table 2 – Temperature cycling conditions		12
Table 3 – Common single-mode fibre requirement		13
Table 4 – Cabled attenuation requirements for B1.1 optical fibre		13
Table 5 – Cabled attenuation requirements for B1.2 optical fibre		13
Table 6 – Cabled attenuation requirements for B1.3 optical fibre		14
Table 7 – Cabled attenuation requirements for B2 optical fibre		14
Table 8 – Cabled attenuation requirements for B4 optical fibre		14
Table 9 – Cabled attenuation requirements for B5 optical fibre		14
Table 10 – Cabled attenuation requirements for B6 optical fibre		15
Table 11 – Requirements for multimode optical fibre (A1a and A1b)		15
Table B.1 – Cable description		17
Table B.2 – Cable element		18
Table B.3 – Cable construction		18
Table B.4 – Installation and operating conditions		19
Table B.5 – Tests applicable		19

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OPTICAL FIBRE CABLES –

**Part 2-30: Indoor cables –
Family specification for optical fibre ribbon
cables for use in terminated cable assemblies**

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 third edition cancels and replaces the second edition published in 2008. This edition constitutes a technical revision.

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

- a) removal of Annex C;
- b) reference to the most recent fibre standards;
- c) reference to IEC 60794-1-21, IEC 60794-1-22, IEC 60794-1-23 and IEC 60794-1-24.

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

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

CDV	Report on voting
86A/1704/CDV	86A/1808/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 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 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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OPTICAL FIBRE CABLES –

Part 2-30: Indoor cables – Family specification for optical fibre ribbon cables for use in terminated cable assemblies

1 Scope

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

The requirements of this document are written to define flat ribbon cables. This document can be applicable to other cable constructions. Parts of IEC 60794-3 which are applicable for ribbon tests are the subject of IEC 60794-1-31.

Annex B contains requirements that supersede the normal requirements in case the cables are intended to be used in installation governed by the MICE table of IEC 11801-3 [4]¹.

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.

NOTE These references complete the normative references already listed in the generic specifications (IEC 60794-1-1 and IEC 60794-1-2).

IEC 60304, *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 – Cut-off 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 60793-2-50, *Optical fibres – Part 2-50: Product specification – Sectional specification for class B single-mode fibres*

IEC 60794-1-1, *Optical fibre cables – Part 1-1: Generic specification – General*

¹ Numbers in square brackets refer to the Bibliography.