

Optical fibre cables —

Part 2-20: Indoor cables — Family specification for multi-fibre optical distribution cables

The European Standard EN 60794-2-20:2003 has the status of a
British Standard

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National foreword

This British Standard is the official English language version of EN 60794-2-20:2003. It is identical with IEC 60794-2-20:2003.

The UK participation in its preparation was entrusted by Technical Committee GEL/86, Fibre optics, to Subcommittee GEL/86/1, Optical fibres and cables, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

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Part 2-20: Indoor cables -
Family specification for multi-fibre optical distribution cables
(IEC 60794-2-20:2003)

Câbles à fibres optiques
Partie 2-20: Câbles intérieurs -
Spécification de famille pour les câbles
optiques multifibres de distribution
(CEI 60794-2-20:2003)

Lichtwellenleiterkabel
Teil 2-20: LWL-Innenkabel -
Familienspezifikation
für Mehrfaserverteilerkabel
(IEC 60794-2-20:2003)

This European Standard was approved by CENELEC on 2002-12-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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 Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 86A/817/FDIS, future edition 1 of IEC 60794-2-20, prepared by SC 86A, Fibres and cables, of IEC TC 86, Fibre optics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60794-2-20 on 2002-12-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2003-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2005-12-01

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

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60794-2-20:2003 was approved by CENELEC as a European Standard without any modification.

CONTENTS

1	Scope	4
2	Normative references.....	4
3	Construction	4
3.1	General	4
3.2	Optical fibres and primary coating	4
3.3	Buffer	5
3.4	Ruggedized fibre	5
3.5	Slotted core	5
3.6	Tube.....	5
3.7	Stranded loose tube.....	5
3.8	Ribbon structure	5
3.9	Strength and anti-buckling members	6
3.10	Ripcord.....	6
3.11	Sheath.....	6
3.12	Sheath marking	6
3.13	Identification	6
3.14	Examples of cable constructions	6
4	Tests	6
4.1	Dimensions	6
4.2	Mechanical requirements	6
4.3	Environmental requirements	9
4.4	Transmission requirements.....	9
4.5	Fire performance	9
Annex ZA (normative) Normative references to international publications with their corresponding European publication		15
Table 1 – Dimensions of buffered fibres		5
Figure 1 – Example of a cross-section of a 12-fibre distribution cable		10
Figure 2 – Example of a cross-section of a 36-fibre distribution cable		10
Figure 3 – Example of a cross-section of a six-fibre break-out cable		11
Figure 4 – Example of a cross-section of a 24-fibre break-out cable		11
Figure 5 – Example of a cross-section of a slotted-core type indoor cable with four fibre ribbons.....		12
Figure 6 – Example of a cross-section of an SZ slotted-core type indoor cable with two fibre ribbons		12
Figure 7 – Example of a cross-section of an SZ slotted-core type indoor cable with fibre bundles		13
Figure 8 – Example of multifibre unitube cable.....		13
Figure 9 – Example of multifibre cable.....		14

OPTICAL FIBRE CABLES –

Part 2-20: Indoor cables – Family specification for multi-fibre optical distribution cables

1 Scope

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

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.

They 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 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*.

ISO/IEC 11801:1995, *Information technology – Generic cabling for customer premises*

3 Construction

3.1 General

In addition to the constructional requirements in IEC 60794-2, the following considerations apply to multi-fibre indoor cables.

The cable shall be designed and manufactured for an expected operating lifetime of at least 15 years. In this context, the attenuation of the installed cable at the operational wavelength(s) shall not exceed the values agreed between the customer and the manufacturer. The materials in the cable shall not present a health hazard within its intended use.

There shall be no fibre splice in a delivery length unless otherwise agreed by the customer and the manufacturer.

It shall be possible to identify each individual fibre throughout the length of the cable.

3.2 Optical fibres and primary coating

Multimode or single-mode optical fibres meeting the requirements of IEC 60793-2 shall be used.