

Optical fibre cables —

Part 4-10: Aerial optical cables along electrical power lines — Family specification for OPGW (Optical Ground Wires)

The European Standard EN 60794-4-10:2007 has the status of a British Standard

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National foreword

This British Standard was published by BSI. It is the UK implementation of EN 60794-4-10:2007. It is identical with IEC 60794-4-10:2006.

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

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Optical fibre cables -
Part 4-10: Aerial optical cables along electrical power lines -
Family specification for OPGW (Optical Ground Wires)
(IEC 60794-4-10:2006)**

Câbles à fibres optiques -
Partie 4-10: Câbles optiques aériens
le long des lignes électriques
de puissance -
Spécification de famille
pour les câbles de garde à fibres optiques
(OPGW - Optical Ground Wires)
(CEI 60794-4-10:2006)

Lichtwellenleiterkabel -
Teil 4-10: Lichtwellenleiter-Erdseile
auf Starkstromleitungen -
Familienspezifikation
für OPGW (Optical Ground Wires)
(IEC 60794-4-10:2006)

This European Standard was approved by CENELEC on 2007-04-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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/1075/FDIS, future edition 1 of IEC 60794-4-10, 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 60794-4-10 on 2007-04-01.

This standard is to be used in conjunction with EN 60794-1-1, EN 60794-1-2 and EN 60794-4.

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) | 2008-01-01 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2010-04-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60794-4-10:2006 was approved by CENELEC as a European Standard without any modification.

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OPTICAL FIBRE CABLES –**Part 4-10: Aerial optical cables along electrical power lines –
Family specification for OPGW (Optical Ground Wires)****1 Scope**

This part of IEC 60794-4 specifies the electrical, mechanical and optical requirements, and test methods for OPGW (Optical Ground Wire).

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.

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

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

IEC 60793-1-44, *Optical Fibres – Part 1-40: Measurement methods and test procedures – Cut-off wavelength*

IEC 60793-1-48, *Optical Fibres – Part 1-48: Measurement methods and test procedures – Polarization mode dispersion*

IEC 60793-2-50, *Optical Fibres – Part 2-50: Product specifications – Sectional specifications for class B single-mode fibres*

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

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

IEC 60794-4, *Optical fibre cables – Part 4: Sectional Specification – Aerial optical cables along electrical power lines*

IEC 61089, *Round wire concentric lay overhead electrical stranded conductors*

IEC 61394, *Overhead lines – Characteristics of greases for aluminium, aluminium alloy and steel bare conductors*

ISO 9001, *Quality Management Systems – Requirements*