



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 60708:2005**

ICS 29.060.20

**LOW-FREQUENCY CABLES WITH  
POLYOLEFIN INSULATION AND MOISTURE  
BARRIER POLYOLEFIN SHEATH**

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EUROPEAN STANDARD

**EN 60708**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2005

ICS 29.060.20

English version

**Low-frequency cables with polyolefin insulation  
and moisture barrier polyolefin sheath  
(IEC 60708:2005)**

Câbles pour basses fréquences  
à isolation polyoléfine et gaine polyoléfine  
à barrière d'étanchéité  
(CEI 60708:2005)

Niederfrequenzkabel mit Isolierung  
aus Polyolefin und mit Polyolefin-  
Schichtenmantel  
(IEC 60708:2005)

This European Standard was approved by CENELEC on 2005-09-13. 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and 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 46C/713/FDIS, future edition 1 of IEC 60708, prepared by SC 46C, Wires and symmetric cables, of IEC TC 46, Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60708 on 2005-09-13.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| – latest date by which the EN has to be implemented<br>at national level by publication of an identical<br>national standard or by endorsement | (dop) | 2006-07-01 |
| – latest date by which the national standards conflicting<br>with the EN have to be withdrawn  | (dow) | 2008-10-01 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60708:2005 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60028	– <sup>1)</sup>	International standard of resistance for copper	-	-
IEC 60189-1	– <sup>1)</sup>	Low-frequency cables and wires with PVC insulation and PVC sheath Part 1: General test and measuring methods	-	-
IEC 60304	– <sup>1)</sup>	Standard colours for insulation for low-frequency cables and wires	HD 402 S2	1984 <sup>2)</sup>
IEC 60794-1-2	– <sup>1)</sup>	Optical fibre cables Part 1-2: Generic specification - Basic optical cable test procedures	EN 60794-1-2	2003 <sup>2)</sup>
IEC 60811-1-1	– <sup>1)</sup>	Insulating and sheathing materials of electric and optical cables - Common test methods Part 1-1: General application - Measurement of thickness and overall dimensions - Tests for determining the mechanical properties	EN 60811-1-1	1995 <sup>2)</sup>
IEC 60811-1-2	– <sup>1)</sup>	Part 1-2: General application - Thermal ageing methods	EN 60811-1-2	1995 <sup>2)</sup>
IEC 60811-1-3	– <sup>1)</sup>	Part 1-3: General application - Methods for determining the density - Water absorption tests - Shrinkage test	EN 60811-1-3	1995 <sup>2)</sup>
IEC 60811-1-4	– <sup>1)</sup>	Part 1-4: General application - Tests at low temperature	EN 60811-1-4	1995 <sup>2)</sup>

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<sup>1)</sup> undated reference.

<sup>2)</sup> valid edition at date of issue.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60811-4-1	– <sup>1)</sup>	Part 4-1: Methods specific to polyethylene and polypropylene compounds - Resistance to environmental stress cracking - Measurement of the melt flow index - Carbon black and/or mineral filler content measurement in polyethylene by direct combustion - Measurement of carbon black content by thermogravimetric analysis (TGA) - Assessment of carbon black dispersion in polyethylene using a microscope	EN 60811-4-1	2004 <sup>2)</sup>
IEC 60811-4-2	– <sup>1)</sup>	Part 4-2: Methods specific to polyethylene and polypropylene compounds - Tensile strength and elongation at break after conditioning at elevated temperature - Wrapping test after conditioning at elevated temperature - Wrapping test after thermal ageing in air - Measurement of mass increase - Long-term stability test - Test method for copper-catalyzed oxidative degradation	EN 60811-4-2	2004 <sup>2)</sup>
IEC 60811-5-1 (mod)	– <sup>1)</sup>	Part 5-1: Methods specific to filling compounds - Drop point - Separation of oil - Lower temperature brittleness - Total acid number - Absence of corrosive components - Permittivity at 23 °C - D.C. resistivity at 23 °C and 100 °C	EN 60811-5-1	1999 <sup>2)</sup>
IEC 61156-1	– <sup>1)</sup>	Multicore and symmetrical pair/quad cables for digital communications Part 1: Generic specification	-	-
ITU-T L.3	– <sup>1)</sup>	Armouring of cables	-	-

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