



National Standards Authority of Ireland

IRISH STANDARD

**I.S. HD 633 S1:1999**

ICS 29.060.20

**TESTS ON OIL-FILLED (FLUID FILLED),  
PAPER- OR POLYPROPYLENE PAPER  
LAMINATE-INSULATED, METAL-SHEATHED  
CABLES AND ACCESSORIES FOR  
ALTERNATING VOLTAGES UP TO AND  
INCLUDING 400 KV (UM = 420 KV)**

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Údarás um Chaighdeáin Náisiúnta na hÉireann



**HARMONIZATION DOCUMENT**  
**DOCUMENT D'HARMONISATION**  
**HARMONISIERUNGSDOKUMENT**

**HD 633 S1**

**December 1997**

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ICS 29.060.20

Descriptors: Electrical installation, a.c. voltage, insulated cable, electrical insulating paper, accessory, test, oil-filled cable, protective sheath

English version

**Tests on oil-filled (fluid filled), paper- or polypropylene paper laminate-insulated, metal-sheathed cables and accessories for alternating voltages up to and including 400 kV ( $U_m = 420$  kV)**

Essais des câbles à huile fluide isolés au papier imprégné ou au complexe polypropylène contre-couché papier sous gaine métallique et de leurs dispositifs accessoires pour des tensions alternatives inférieures ou égales à 400 kV ( $U_m = 420$  kV)

Prüfungen an Ölkabeln mit einer Isolierung aus Papier oder polypropylenbeschichtetem Papier und Metallmantel und Garnituren für Wechselspannungen bis einschließlich 400 kV ( $U_m = 420$  kV)

This Harmonization Document was approved by CENELEC on 1997-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

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

This Harmonization Document exists in two official versions (English, French).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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

This Harmonisation Document was prepared by WG9 of CENELEC Technical Committee TC20, Electric Cables.

The document contains the following Parts:

- Part 1 - General test methods
- Part 2 - Additional test methods
- Part 3 - List of test requirements for specific cable designs

Part 3 is further divided into particular sections and, by decision of the Technical Board (D68/047) National Committees need at present only implement in their national language those sections having national applicability. The obligation remains however to announce the full HD in public by titles and numbers, and also to withdraw any conflicting national standards.

Page numbering reflects the arrangement into Parts and particular sections, e.g. Page 3-B-5 is page 5 of particular section B of Part 3.

References to other HDs, ENs and international standards are given in the particular parts or sections.

The draft was submitted to the formal vote and was approved by CENELEC as HD 633 S1 on 1997-10-01. By decision of the Technical Board (D81/139) this HD exists only in English and French.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| - latest date by which the existence of the HD has to be announced at national level   | (doa) | 1998-03-01 |
| - latest date by which the HD has to be implemented at national level by publication of a harmonised national standard or by endorsement | (dop) | 1998-09-01 |
| - latest date by which the national standards conflicting with the HD have to be withdrawn   | (dow) | 1998-09-01 |

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