



National Standards Authority of Ireland

IRISH STANDARD

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ICS 29.240.20

**COVERED CONDUCTORS FOR OVERHEAD
LINES AND THE RELATED ACCESSORIES
FOR RATED VOLTAGES ABOVE 1 KV A.C.
AND NOT EXCEEDING 36 KV A.C. -- PART
1: COVERED CONDUCTORS**

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
<http://www.nsai.ie>

Sales
<http://www.standards.ie>

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EUROPEAN STANDARD

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EUROPÄISCHE NORM

November 2006

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English version

**Covered conductors for overhead lines
and the related accessories for rated voltages
above 1 kV a.c. and not exceeding 36 kV a.c.
Part 1: Covered conductors**

Conducteurs gainés pour lignes aériennes
et accessoires associés pour des tensions
assignées supérieures à 1 kV c.a.
et ne dépassant pas 36 kV c.a.
Partie 1: Conducteurs gainés

Kunststoffumhüllte Leiter und zugehörige
Armaturen für Freileitungen mit
Nennspannungen über 1 kV und
nicht mehr als 36 kV Wechselspannung
Teil 1: Kunststoffumhüllte Freileitungsseile

This European Standard was approved by CENELEC on 2006-07-01. 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

This European Standard was prepared by TF "*Covered Overhead Line Conductors (COHL)*" of the Technical Committee CENELEC TC 20, Electric cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50397-1 on 2006-07-01.

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) 2007-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-07-01

This European Standard consists of two parts:

- Part 1 "Covered conductors"; and
- Part 2 "Accessories for covered conductors: Tests and acceptance criteria".

This standard covers the construction, performance and test requirements for covered conductors for overhead lines having a nominal voltage U above 1 kV a.c. up to and including 36 kV a.c., and for the related accessories.

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Introduction

Covered conductors consist of a conductor surrounded by a covering made of insulating material as protection against accidental contacts with other covered conductors and with grounded parts such as tree branches, etc. In comparison with insulated conductors, this covering has reduced properties, but is able to withstand the phase-to-earth voltage temporarily.

Since covered conductors are unscreened, they are not touch-proof, i.e. they must be treated as bare conductors with respect to electric shock.

This standard does not cover aspects related to the installation of overhead lines such as determination of clearances, spans, sags, etc.

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