



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 50334:2001

ICS 29.060.20

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel (01) 807 3800
Tel (01) 807 3838

**MARKING BY INSCRIPTION FOR THE
IDENTIFICATION OF CORES OF ELECTRIC
CABLES**

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Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 50334

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2001

ICS 29 060.20

Supersedes HD 186 S2:1989 + A1:1992

English version

Marking by inscription for the identification of cores of electric cables

Repérage par inscription des conducteurs
constitutifs des câbles électriques

Kennzeichnung der Adern von Kabeln
und Leitungen durch Bedrucken

This European Standard was approved by CENELEC on 2000-04-01. 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, 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 European Standard was prepared by the Technical Committee CENELEC TC 20, Electric cables.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50334 on 2000-04-01.

This European Standard supersedes HD 186 S2:1989 and its A1:1992.

By comparison with HD 186, the scope of the EN has been extended to cover marking by the inscription of numbers for cables with any number of cores.

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) 2001-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-04-01

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1 Scope

This European Standard specifies the requirements to be met when the identification of individual cores in a cable is by inscription of numbers on to the extruded insulation of each core. The requirements apply only when called up by the particular cable standard.

NOTE The requirement to use numbers for identification is often restricted by the particular cable standard to cable types having more than 5 cores.

The procedures laid down in this EN provide a means of achieving a unique identification of each core in a multicore cable.

2 Normative references

(Clause not used.)

3 Definitions

For the purposes of this European Standard, the following definitions apply.

3.1

inscription

succession of identical marks disposed along the outer surface of the cores for the identification of each core

3.2

mark

the repetitive part of the inscription, consisting of a number accompanied by a dash which indicates the direction in which the number should be read

3.3

reference number

the fundamental part of the mark, consisting of a number identifying a particular core

4 Inscription

4.1 Composition

The inscription is composed of marks repeated at regular intervals along the whole length of the core.

Each mark comprises:

- a reference number beginning at 1 in arabic numerals;
- a dash which underlines this number and indicates the direction in which the number should be read.

4.2 Arrangement of marks

Two consecutive marks shall always be placed upside down in relation to one another. The arrangement of the marks is shown in Figure 1 - axial marks and Figure 2 - transverse marks.

Axial or transverse marks are regarded as completely equivalent in meeting the requirements, and the choice of which to use is entirely at the discretion of the manufacturer.

For axial marks, when the reference consists of a single numeral, the dash is placed under it; if the reference number consists of two numerals, these are disposed one below the other and the dash is placed underneath the lower numeral.

For transverse marks, the dash is placed under the number.

5 Spacing and dimensions of marks

5.1 Axial marks

The dimensions of the mark and the spacing shall be as given in Table 1, which applies only to Figure 1.

- e* is the minimum width of a mark;
- h* is the minimum height of a numeral;
- i* is the approximate interval within a mark between two consecutive numerals and between numeral and dash;
- d* is the maximum interval between two consecutive marks.

Table 1 - Axial marks

Nominal diameter, <i>D</i> , of the core mm	<i>e</i> ¹⁾ mm	<i>h</i> mm	<i>i</i> mm	<i>d</i> mm
$D \leq 2,4$	0,6	2,3	2	50
$2,4 < D \leq 5,0$	1,2	3,2	3	50
$5,0 < D$	1,6	4,6	4	50

¹⁾ when the numeral is 1, the minimum width is equal to half the dimensions given in this column.

5.2 Transverse marks

The dimensions of the mark and the spacing shall be as given in Table 2 which applies only to Figure 2.

- h* is the the minimum height of the mark;
- w* is the minimum width of a numeral;
- i* is the the approximate spacing within a mark between two numerals;
- d* is the maximum interval between two consecutive marks.

Table 2 - Transverse marks

Nominal diameter, <i>D</i> , of the core mm	<i>h</i> mm	<i>w</i> ¹⁾ mm	<i>i</i> mm	<i>d</i> mm
$D \leq 2,6$	1,0	0,5	0,25	50
$2,6 < D \leq 3,6$	1,5	0,7	0,35	50
$3,6 < D \leq 5,0$	2,0	1,0	0,5	50
$5,0 < D$	2,5	1,4	0,7	50

¹⁾ When the numeral is 1, the minimum width is half the dimensions given in this column

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