



National Standards Authority of Ireland

IRISH STANDARD

I.S. HD 21.1. S4:2002

ICS 29.060.20

National Standards  
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**CABLES OF RATED VOLTAGES UP TO AND  
INCLUDING 450/750 V AND HAVING  
THERMOPLASTIC INSULATION  
PART 1: GENERAL REQUIREMENTS**

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Údarás um Chaighdeáin Náisiúnta na hÉireann



HARMONIZATION DOCUMENT

**HD 21.1 S4**

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

November 2002

ICS 29.060.20

Supersedes HD 21 1 S3:1997

English version

**Cables of rated voltages up to and including 450/750 V  
and having thermoplastic insulation  
Part 1: General requirements**

Conducteurs et câbles isolés  
avec des matériaux thermoplastiques  
de tension assignée au plus égale  
à 450/750 V  
Partie 1 : Prescriptions générales

Starkstromleitungen mit thermoplastischer  
Isolierhülle für Nennspannungen  
bis 450/750 V  
Teil 1: Allgemeine Anforderungen

This Harmonization Document was approved by CENELEC on 2002-09-01. 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 three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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 edition 4 of HD 21.1 has been prepared by the Technical Committee CENELEC TC 20, Electric cables.

HD 21 was originally adopted by CENELEC on 9th July 1975.

Edition 2 of HD 21 was implemented on 1st January 1984. A third edition of Part 1 was published in September 1997.

This 4<sup>th</sup> edition provides a full updating, including incorporation of amendments ratified during the maintenance of Part 3 onwards of HD 21, and introduces other improvements.

HD 21.1 S4 is related to IEC 60227-1:1993, but is not directly equivalent.

HD 21 now has the following parts:

HD 21.1 S4	General requirements
HD 21.2 S3	Test methods
HD 21.3 S3	Non sheathed cables for fixed wiring
HD 21.4 S2	Sheathed cables for fixed wiring (Reprint)
HD 21.5 S3	Flexible cables (cords)
HD 21.6	(Spare)
HD 21.7 S2	Single core non-sheathed cables for internal wiring for a conductor temperature of 90 °C
HD 21.8 S2	Single core non-sheathed cables for decorative chains (with A1 inclusive)
HD 21.9 S2	Single core non-sheathed cable for installation at low temperatures
HD 21.10 S2	Extensible leads
HD 21.11 S1	Cables for luminaires
HD 21.12 S1	Heat-resistant flexible cables (cords)
HD 21.13 S1	Oil resistant PVC sheathed cables with two or more conductors
HD 21.14 S1	Flexible cables (cords), insulated and sheathed with halogen-free thermoplastic compounds

In order that this revision of Part 1 of HD 21 does not introduce unnecessary changes to long-established clause numbers, the normative references (which would otherwise be inserted as clause 2 are given in annex A.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as HD 21.1 S4 on 2002-09-01.

The following dates were fixed:

-	latest date by which the existence of the HD has to be announced at national level	(doa)	2003-03-01
-	latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement	(dop)	2003-09-01
-	latest date by which the national standards conflicting with the HD have to be withdrawn	(dow)	2003-09-01

Annexes designated "normative" are part of the body of the standard.  
Annexes designated "informative" are given for information only.  
In this standard, annex A is normative and annex B is informative.



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