



National Standards Authority of Ireland

STANDARD

I.S. HD 623 S1:1999

ICS 29.060.20

National Standards  
Authority of Ireland  
Dublin 9  
Ireland

Tel. (01) 807 3800  
Fax: (01) 807 3838

**SPECIFICATION FOR JOINTS, STOP ENDS  
AND OUTDOOR TERMINATIONS FOR  
DISTRIBUTION CABLES OF RATED VOLTAGE  
0,6/1,0 KV**

*This Irish Standard was  
published under the authority  
of the National Standards  
Authority of Ireland  
and comes into effect on.*

*February 12, 1999*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 1999

**Price Code P**

Údarás um Chaighdeán Náisiúnta na hÉireann



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

**HD 623 S1**

**February 1996**

---

ICS 29.120.20;29.240.20

Descriptors: Electrical power distribution, electric cable, termination, joint, physical characteristics, compliance, type test, marking

English version

**Specification for joints, stop ends and outdoor terminations  
for distribution cables of rated voltage 0,6/1,0 kV**

Spécifications pour jonctions,  
dérivations, bouts perdus et extrémités  
extérieures, de câbles de distribution  
de tension assignée 0,6/1,0 kV

Bestimmung für Muffen, Endmuffen  
und Endverschlüsse für Freiluftanlagen  
für Kabel mit Nennspannungen  
0,6/1,0 kV

This Harmonization Document was approved by CENELEC on 1995-11-28. 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, 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 Harmonization Document was prepared by 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 HD 623 S1 on 1995-11-28.

The following dates were fixed:

- latest date by which the existence of the HD  
has to be announced at national level (doa) 1996-06-01
- latest date by which the HD has to be implemented  
at national level by publication of a harmonized  
national standard or by endorsement (dop) 1996-12-01
- latest date by which the national standards conflicting  
with the HD have to be withdrawn (dow) 1996-12-01

For products which have complied with the relevant national standard before 1996-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1997-12-01.

This HD has been written as part of a series of standards to satisfy the Public Procurement Directive, and is complementary to HD 603, which covers cables rated at 0,6/1,0 kV for use by distributors of electrical power.

The Standard defines tests to demonstrate the minimum acceptable performance of joints, stop-ends and outdoor terminations for use with extruded solid dielectric insulated power cables of rated voltage 0,6/1,0 kV. Transition joints between extruded solid dielectric insulated and impregnated paper insulated cables are also included.

The levels of testing detailed are in line with European practice and have taken into account the provisions of existing national standards.

Information concerning packaging and labelling is included.

---

## CONTENTS

	Page
1. Scope	5
2. Normative references	5
3. Definitions	6
4. Electrical characteristics	7
4.1 Rated voltage	7
4.2 Current rating	7
5. Compliance	8
5.1 General	8
5.2 Joints and stop ends	12
5.3 Transition joints	12
5.4 Optional tests	13
6. Type tests	13
6.1 General	13
6.2 Test samples	13
6.3 Sequence of tests	14
6.4 Test conditions	14
6.5 Frequency and waveform of power frequency test voltages	14
6.6 Test specifications	19
6.6.1 Temperature calibration of cable	19
6.6.2 Thermal stability	19
6.6.3 Impulse voltage at ambient temperature	20
6.6.4 A.C. voltage withstand	21
6.6.5 Mechanical impact at low temperature	21
6.6.6 Mechanical impact at ambient temperature	22
6.6.7 Measurement of insulation resistance	24
6.6.8 Load cycling	25
6.6.9 Water penetration	26
6.6.10 Metallic screen - short circuit current withstand	27
6.6.11 Immersion test	28
6.6.12 Examination	29
7. Marking and labelling, packaging, and information to be given by the manufacturer	31

**Page 4**  
**HD 623 S1:1996**

<b>Annex 1 Determination of cable conductor temperature</b>	<b>44</b>
<b>Annex 2 Marking and labelling, packaging and information to be given by the manufacturer</b>	<b>49</b>
<b>A2.1 Packaging</b>	<b>49</b>
<b>A2.2 Marking and labelling</b>	<b>49</b>
<b>A2.3 Health and safety</b>	<b>49</b>

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-