



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 50267-2-1:1999**

ICS 13.220.40  
29.060.20

**COMMON TEST METHODS FOR CABLES  
UNDER FIRE CONDITIONS TESTS ON GASES  
EVOLVED DURING COMBUSTION OF  
MATERIALS FROM CABLES  
PART 2-1: PROCEDURES - DETERMINATION  
OF THE AMOUNT OF HALOGEN ACID GAS**

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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN 50267-2-1**

June 1998

ICS 13.220.40; 29.060.20

**Descriptors:** Electrical installation, electrical cables, fire tests, combustion tests, combustion products, burning gases, corrosive gases, determination, acidity, corrosivity, testing conditions, procedure

English version

**Common test methods for cables under fire conditions**  
**Tests on gases evolved during combustion of materials from cables**  
**Part 2-1: Procedures - Determination of the amount of halogen acid gas**

Méthodes d'essai communes aux câbles  
soumis au feu - Essais sur les gaz émis  
lors de la combustion d'un matériau  
prélevé sur un câble  
Partie 2-1: Procédures - Détermination  
de la quantité de gaz acides halogénés

Allgemeine Prüfverfahren für das  
Verhalten von Kabeln und isolierten  
Leitungen im Brandfall - Prüfung der  
bei der Verbrennung der Werkstoffe  
von Kabeln und isolierten Leitungen  
entstehenden Gase  
Teil 2-1: Prüfverfahren - Bestimmung  
des Gehaltes an  
Halogenwasserstoffsäure

This European Standard was approved by CENELEC on 1998-04-01. 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 TC20, Electric Cables.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50267-2-1 on 1998-04-01.

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) 1999-03-01
- latest date by which national standards conflicting  
with the EN have to be withdrawn (dow) 2000-03-01

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 informative. There is no normative annex.

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## 1. **Scope**

EN 50267-2-1 specifies the procedure for the determination of the amount of halogen acid gas, other than hydrofluoric acid, evolved during the combustion of compounds based on halogenated polymers, and compounds containing halogenated additives, taken from cable constructions.

For reasons of accuracy this method is not recommended for use where the amount of halogen acid evolved is less than 5 mg/g of the sample taken.

This method is not suitable for defining compounds or materials described as 'zero-halogen' or 'halogen-free'. For such compounds or materials, and all compounds or materials containing less than 5 mg/g halogen acid equivalent, it is recommended to use the method specified in EN 50267-2-2.

## 2. **Normative references**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 50267-1: Common test methods for cables under fire conditions. Tests on gases evolved during the combustion of materials from cables. Part 1: Apparatus.

EN 60695-4: Fire hazard testing : Part 4 : Terminology concerning fire test.

Note: IEC 60695 is in the course of re-numbering its Parts and Sections. This will also affect the equivalent ENs.

## 3. **Definition**

For the purposes of EN 50267-2-1 the following definition applies. The definition is taken from EN 60695-4.

3.1 **Combustion:** Exothermic reaction of a substance with an oxidizer with emission of effluent, generally accompanied by flames and/or glowing and/or emission of smoke.

## 4. **Test apparatus**

The apparatus used shall be that specified in EN 50267-1.

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