Irish Standard
I.S. EN 61935-3:2009

Testing of balanced and coaxial information technology cabling - Part 3: Installed cabling as specified in EN 50173-4 and related standards (IEC 61935-3:2008 (MOD))

I.S. EN 61935-3:3:2009

Incorporating amendments/corrigenda issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:	*This document is based on:* EN 61935-3:2009	*Published:* 23 December, 2009

This document was published under the authority of the NSAI and comes into effect on: 5 July, 2010	ICS number: 33.120.20

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

I.S. EN 61935-3:2010

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61935-3

December 2009

ICS 33.120.20

English version

Testing of balanced and coaxial information technology cabling - Part 3: Installed cabling as specified in EN 50173-4 and related standards

(IEC 61935-3:2008, modified)

Essais des câblages de technologies de l'information symétriques et coaxiaux - Partie 3: Câblages installés selon les spécifications de l'EN 50173-4 et des normes connexes (CEI 61935-3:2008, modifiée)

Prüfung der symmetrischen und koaxialen informationstechnischen Verkabelung - Teil 3: Installierte Verkabelung nach EN 50173-4 und entsprechenden Normen (IEC 61935-3:2008, modifiziert)

This European Standard was approved by CENELEC on 2008-06-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 61935-3:2009 E

Foreword

The text of document 46/261/FDIS, future edition 1 of IEC 61935-3, prepared by IEC TC 46, Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61935-3 on 2008-06-01.

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)	2010-07-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2011-06-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61935-3:2008 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

Title page

Replace "ISO/IEC 15018" by "EN 50173-4".

Clause 2, Normative references

Replace the references to ISO/IEC 11801 and ISO/IEC 15018 by

EN 50173-1, *Information technology - Generic cabling systems – Part 1: General requirements*

EN 50173-4, *Information technology - Generic cabling systems – Part 4: Homes*

General

Replace all other occurrences of "ISO/IEC 11801" by "EN 50173-1". This replacement is to be made in Subclauses 3.1 and 5.3.

Replace all other occurrences of "ISO/IEC 15018" by "EN 50173-4". This replacement is to be made in the Introduction and in Subclauses 6.1 (twice), 6.2, 6.3.1 and 6.3.2.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
–	–	Information technology - Generic cabling systems - Part 1: General requirements	EN 50173-1	–[1)]
–	–	Information technology - Generic cabling systems - Part 4: Homes	EN 50173-4	–[1)]
IEC 60728-1	–[1)]	Cable networks for television signals, sound signals and interactive services - Part 1: System performance of forward paths	EN 60728-1	2008[2)]
IEC 60728-12	–[1)]	Cabled distribution systems for television and sound signals - Part 12: Electromagnetic compatibility of systems	–	–

[1)] Undated reference.

[2)] Valid edition at date of issue

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TESTING OF BALANCED AND COAXIAL INFORMATION TECHNOLOGY CABLING –

Part 3: Installed cabling as specified in ISO/IEC 15018 and related standards

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
6) All users should ensure that they have the latest edition of this publication.
7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61935-3 has been prepared by IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

This bilingual version, published in 2009-04, corresponds to the English version.

The text of this standard is based on the following documents:

FDIS	Report on voting
46/261/FDIS	46/268/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

The French version of this standard has not been voted upon.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts of the IEC 61935 series, under the general title *Testing of balanced and coaxial information technology cabling*, can be found on the IEC website. Future standards in this series will carry the new general title as cited above.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

Telecommunication cabling for homes has evolved into the specification and deployment of generic cabling. This generic cabling system for homes is specified within ISO/IEC 15018. Formerly, there had been no test requirement for home cabling. Connectivity tests and visual inspection were, at best, random and insufficient. However, bandwidth requirements of the home applications are ever increasing and home-owners need assurance that their generic cabling will indeed support intended network technologies that are delivered to the home and distributed throughout the home. This part of IEC 61935 addresses both verification and qualification of home cabling.