

Irish Standard I.S. EN 50117-1:2002

Coaxial cables -- Part 1: Generic specification

© CENELEC 2002 No copying without NSAI permission except as permitted by copyright law.

| Incorporating amendments/corrigenda issued since publication: | | | | |
|---|--|--|--|--|
| EN 50117-1:2002/A1:2006 | | | | |
| EN 50117-1:2002/A2:2013 | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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: EN 50177-1:1995 + A1:1997 + A2:1997 This document is based on: EN 50117-1:2002

Published: 5 July, 2002

This document was published under the authority of the NSAI and comes into effect on:

ICS number: 33.120.10

30 August, 2002

NSAI T +353 1 807 3800 Sales:

1 Swift Square, F +353 1 807 3838 T +353 1 857 6730

Northwood, Santry E standards@nsai.ie F +353 1 857 6729

Dublin 9 W standards.ie

W NSALie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

I.S. EN 50117-1:2002

EUROPEAN STANDARD

EN 50117-1/A2

NORME EUROPÉENNE EUROPÄISCHE NORM

June 2013

ICS 33.120.10

English version

Coaxial cables - Part 1: Generic specification

Câbles coaxiaux - Koaxialkabel -

Partie 1: Spécification générique Teil 1: Fachgrundspezifikation

This amendment A2 modifies the European Standard EN 50117-1:2002; it was approved by CENELEC on 2013-06-17. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

EN 50117-1:2002/A2:2013

- 2 -

Foreword

This document (EN 50117-1:2002/A2:2013) has been prepared by CLC/SC 46XA "Coaxial cables" of CLC/TC 46X "Communication cables".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2016-06-17 conflicting with this document have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

This is a free page sample. Access the full version online.

I.S. EN 50117-1:2002

EUROPEAN STANDARD

EN 50117-1/A1

NORME EUROPÉENNE EUROPÄISCHE NORM

November 2006

ICS 33.120.10

English version

Coaxial cables Part 1: Generic specification

Câbles coaxiaux Koaxialkabel

Partie 1: Spécification générique Teil 1: Fachgrundspezifikation

This amendment A1 modifies the European Standard EN 50117-1:2002; it was approved by CENELEC on 2006-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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, 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: rue de Stassart 35, B - 1050 Brussels

EN 50117-1:2002/A1:2006

- 2 -

Foreword

This amendment to the European Standard EN 50117-1:2002 was prepared by SC 46XA, Coaxial cables, of Technical Committee CENELEC TC 46X, Communication cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as amendment A1 to EN 50117-1:2002 on 2006-07-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop)
- latest date by which the national standards conflicting
 with the amendment have to be withdrawn (dow) 2009-07-01

2007-07-01

EN 50117-1:2002

Foreword

- 2 -

This European Standard was prepared by SC 46XA, Coaxial cables, of Technical Committee CENELEC TC 46X, Communication cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50117-1 on 2001-12-01.

This European Standard supersedes EN 50117-1:1995 + corrigendum July 1997 + A1:1997 + A2:1997.

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) 2003-01-01

- latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2004-12-01

– 3 –

EN 50117-1:2002

Contents

| 1 | Scop | De | 4 | | | |
|-------------------|--|---|----------------------|--|--|--|
| 2 | Normative references | | | | | |
| 3 | Defin | Definitions | | | | |
| 4 | Requirements for cable construction | | | | | |
| | 4.1 4.2 4.3 4.4 4.5 | General Inner conductor 4.2.1 Conductor material 4.2.2 Conductor construction Dielectric Outer conductor or screen Filling compounds | | | | |
| | 4.6 4.7 4.8 4.9 4.10 4.11 4.12 4.13 | Moisture barriers Wrapping layers Sheath Metallic protection Cable integral suspension strand (messenger wire) Oversheath Fauna proofing Chemical and/or environmental proofing Cable identification 4.14.1 Sheath marking 4.14.2 Labelling | 999991010 | | | |
| 5 | Test | methods for completed cables | | | | |
| | 5.1 5.2 5.3 5.4 | Electrical test methods 5.1.1 Low frequency and d.c. electrical measurements 5.1.2 High-frequency electrical and transmission measurements. Mechanical test methods Environmental test methods Fire performance test methods | 11 12 12 13 | | | |
| Tab Tab Tab | le 2 – le 3 – le 4 – | Low frequency and d.c. electrical measurements High frequency electrical and transmission measurements Mechanical test methods Environmental test methods Fire performance test methods | 12 12 13 | | | |

- 4 -

1 Scope

This European Standard covers coaxial cables for use in analogue and digital systems. This standard should be used in conjunction with EN 50290-1-1.

Coaxial cables covered by this standard operate in transverse electromagnetic mode (TEM) and are suitable for use in a wide range of digital and analogue applications including CATV, radio frequency systems, instrumentation, broadcasting, telecommunications and data network systems. Various constructions and materials provide for indoor and outdoor applications, including underground and overhead installations, and other environmental protection characteristics.

Generally, cables are designed for use in 50 Ohm and 75 Ohm characteristic impedance systems, although other types (e.g. 93/95 Ohm) are also covered.

Coaxial cables defined by this standard may be incorporated into hybrid cable constructions with optical fibre or multi-element cable components.

All cables covered by this standard may be subjected to voltages greater than 50 V a.c. or 75 V d.c. However, these cables are not intended for direct connection to the mains electricity supply or other low impedance sources.

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, (including amendments).

| EN 50289-1-2 | Communication cables - Specifications for test methods – Part 1-2: Electrical test methods – DC resistance |
|---------------|--|
| EN 50289-1-3 | Communication cables - Specifications for test methods – Part 1-3: Electrical test methods – Dielectric strength |
| EN 50289-1-4 | Communication cables - Specifications for test methods – Part 1-4: Electrical test methods – Insulation resistance |
| EN 50289-1-5 | Communication cables - Specifications for test methods – Part 1-5: Electrical test methods – Capacitance |
| EN 50289-1-6 | Communication cables - Specifications for test methods – Part 1-6: Electrical test methods – Electromagnetic performance |
| EN 50289-1-7 | Communication cables - Specifications for test methods – Part 1-7: Electrical test methods – Velocity of propagation |
| EN 50289-1-8 | Communication cables - Specifications for test methods – Part 1-8: Electrical test methods – Attenuation |
| EN 50289-1-11 | Communication cables - Specifications for test methods – Part 1-11: Electrical test methods – Characteristic impedance, input impedance, return loss |



| This is a free preview | Purchase the entire | e publication at the link below: |
|------------------------|---|----------------------------------|
|------------------------|---|----------------------------------|

Product Page

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