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I.S. EN 50117-1:2002

Coaxial cables -- Part 1: Generic specification

I.S. EN 50117-1:2002

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

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

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English version

**Coaxial cables -
Part 1: Generic specification**

Câbles coaxiaux -
Partie 1: Spécification générique

Koaxialkabel -
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.

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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 (dop) 2014-06-17
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2016-06-17

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

ICS 33.120.10

English version

Coaxial cables
Part 1: Generic specification

Câbles coaxiaux
Partie 1: Spécification générique

Koaxialkabel
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.

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CENELEC

European Committee for Electrotechnical Standardization
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I.S. EN 50117-1:2002

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.

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I.S. EN 50117-1:2002

EN 50117-1:2002

- 2 -

Foreword

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

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Contents

1	Scope	4
2	Normative references	4
3	Definitions	6
4	Requirements for cable construction	6
4.1	General.....	6
4.2	Inner conductor.....	7
4.2.1	Conductor material.....	7
4.2.2	Conductor construction.....	7
4.3	Dielectric.....	7
4.4	Outer conductor or screen.....	8
4.5	Filling compounds.....	9
4.6	Moisture barriers.....	9
4.7	Wrapping layers.....	9
4.8	Sheath.....	9
4.9	Metallic protection.....	9
4.10	Cable integral suspension strand (messenger wire).....	9
4.11	Oversheath.....	9
4.12	Fauna proofing.....	10
4.13	Chemical and/or environmental proofing.....	10
4.14	Cable identification.....	10
4.14.1	Sheath marking.....	10
4.14.2	Labelling.....	10
5	Test methods for completed cables	11
5.1	Electrical test methods.....	11
5.1.1	Low frequency and d.c. electrical measurements.....	11
5.1.2	High-frequency electrical and transmission measurements.....	12
5.2	Mechanical test methods.....	12
5.3	Environmental test methods.....	13
5.4	Fire performance test methods.....	13
	Table 1 – Low frequency and d.c. electrical measurements.....	11
	Table 2 – High frequency electrical and transmission measurements.....	12
	Table 3 – Mechanical test methods.....	12
	Table 4 – Environmental test methods.....	13
	Table 5 – Fire performance test methods.....	13

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

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