Communication cables - Specifications for test methods - Part 1-1: Electrical test methods - General requirements

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50289-1-1:2002 sisaldab Euroopa standardi EN 50289-1-1:2001 ingliskeelset teksti. Käesolev dokument on jõustatud 15.10.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 50289-1-1:2002 consists of the English text of the European standard EN 50289-1-1:2001. This document is endorsed on 15.10.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: Part 1 of the European Standard EN 50289 specifies the electrical test methods for cables used in analogue and digital communication systems. This Part 1-1 gives a general introduction and the general test conditions under which the different tests have to be performed.	**Scope:** Part 1 of the European Standard EN 50289 specifies the electrical test methods for cables used in analogue and digital communication systems. This Part 1-1 gives a general introduction and the general test conditions under which the different tests have to be performed.

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Võtmesõnad: analog, analog signals, cables, calibration, communication cables, digital, digital signals, electric cables, electrical engineering, electrical testing, marking, specification, specification (approval), specifications, telecommunication, testing, testing conditions

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English version

Communication cables - Specifications for test methods Part 1-1: Electrical test methods - General requirements

Câbles de communication - Spécifications des méthodes d'essai Partie 1-1: Méthodes d'essais électriques - Prescriptions générales

Kommunikationskabel - Spezifikationen für Prüfverfahren Teil 1-1: Elektrische Prüfverfahren - Allgemeine Anforderungen

This European Standard was approved by CENELEC on 2000-12-01. 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.

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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

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Foreword

This European Standard was prepared by SC 46XC, Multicore, Multipair and Quad Data communication 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 50289-1-1 on 2000-12-01.

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) 2002-01-01

- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2004-01-01

This European Standard has been prepared under the European Mandate M/212 given to CENELEC by the European Commission and the European Free Trade Association.

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1 Scope

The series of Part 1 of the European Standard EN 50289 specifies the electrical test methods for cables used in analogue and digital communication systems.

Part 1 of EN 50289 consists of the following documents:

- Part 1-1 General requirements
- Part 1-2 DC resistance
- Part 1-3 Dielectric strength
- Part 1-4 Insulation resistance
- Part 1-5 Capacitance
- Part 1-6 Electromagnetic performance
- Part 1-7 Velocity of propagation
- Part 1-8 Attenuation
- Part 1-9 Unbalance attenuation (Longitudinal conversation loss, longitudinal conversion transfer loss)
- Part 1-10 Crosstalk
- Part 1-11 Characteristic impedance, input impedance, return loss
- Part 1-12 Inductance
- Part 1-13 Power rating

Further test details (e.g. temperature, duration) and/or test requirements are given in the relevant cable standard.

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 50290-1-2[1)] Communication cables -- Part 1-2: Definitions

3 Definitions

For the purposes of this European Standard, the definitions of EN 50290-1-2 apply.

4 Sampling

4.1 Cable under test (CUT)

Unless otherwise specified in the relevant test method, the length of CUT shall be selected to take into account the dynamic range of the measuring equipment and the frequency range specified to yield the required level of accuracy. The length should be measured with an accuracy better than 1 % unless otherwise stated in the relevant cable specification.

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1) At draft stage