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RESISTIBILITY REQUIREMENTS FOR EQUIPMENT HAVING (A) TELECOMMUNICATION PORT(S)

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English version

Resistibility requirements for equipment having (a) telecommunication port(s)

Exigences de tenue aux chocs des équipements possédant un (des) port(s) de télécommunication

Anforderungen zur Zerstörfestigkeit von Einrichtungen mit (einem Telekommunikationsanschluss) Telekommunikationsanschlüssen

This Technical Report was approved by CENELEC on 2005-12-09.

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

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Foreword

CENELEC Report R0BT-003:2000 had been established by a joint ad hoc working group, which was set up between CENELEC and ETSI in order to analyze the status quo in the field of standardization concerning resistibility. The group was composed by experts from the following Technical Bodies within CENELEC and ETSI: CENELEC/SC 210A, CENELEC/TC 215, CENELEC/TC 81X, CENELEC/TC 74 and ETSI/TC ERM (EMC-WG).

NOTE CENELEC/TC 74 has been transferred into CENELEC/TC 108 “Safety of electronic equipment within the fields of audio/video, information technology and communication technology” in 2002. CENELEC/SC 210A has been disbanded in 2003 and its work items were taken over by the parent committee TC 210.

Through BT decision D122/066 R0BT-003:2000 was assigned to TC 215 for re-publication as a CLC/TR. The technical contents has not been changed, however, editorial improvements have been made to update references to (draft) standards as well as to reflect changes in Technical (Sub-) Committee structure.

The text of the draft was submitted to the formal vote and was approved by CENELEC as CLC/TR 50450 on 2005-12-09.

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Introduction

As defined in the CENELEC/ETSI Report R0BT-001/ETR 238:1995 [1)], resistibility of equipment shall be treated in the context of electromagnetic phenomena. In general resistibility is considered as a quality issue. Quality aspects are not explicitly addressed by the essential requirements of New Approach Directives of the European Union. Resistibility should be viewed as a consideration to be taken when designing a product for its intended installation or environment. Therefore, these aspects should be the object of specific standards.

1 Scope

This document is intended to act as guidance for technical committees with respect to:

a) producing resistibility standards;

b) identifying the relevant committees for preparing European resistibility standards.

Safety (electrical etc.) and EMC are excluded from the scope of this report.

2 References

This document makes reference to the following documents.

IEC 60050-161, *International Electrotechnical Vocabulary – Chapter 161: Electromagnetic compatibility*

IEC 60050-701, *International Electrotechnical Vocabulary – Chapter 701: Telecommunications, channels and networks*

CENELEC/ETSI R0BT-001/ETR 238 [1)], *CENELEC/ETSI standardization programme for the development of Harmonized Standards related to Electro-Magnetic Compatibility (EMC) in the field of telecommunications*

Directive 89/336/EEC, *Council Directive of 3 May 1989 on the approximation of the laws of the Member States relating to Electromagnetic Compatibility*

Directive 99/5/EC, *Directive 99/5/EC of the European Parliament and of the Council relating Radio Equipment and Telecommunications Terminal Equipment and the Mutual Recognition of their Conformity*

Directive 98/13/EC, *Directive 98/13/EC of the European Parliament and of the Council of 12 February 1998 relating to telecommunications terminal equipment and satellite earth station equipment, including the mutual recognition of their conformity*

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this report the following definitions apply.

3.1.1
immunity (to a disturbance)
the ability of a device, equipment or system to perform without degradation in the presence of an electromagnetic disturbance
[IEC 60050-161:1990, 161-01-20]

3.1.2
resistibility
the ability of telecommunication equipment or a network to withstand, in general without damage, the effects of certain electrical, magnetic and electromagnetic phenomena up to a certain, specified extent, and in accordance with a specified criterion

[1)] The future designation of this document is presently being discussed by CLC/TC 210.