INTERNATIONAL STANDARD

ISO/IEC 14709-1

1997

AMENDMENT 1
2004-08

Amendment 1

Information technology – Configuration of customer premises cabling (CPC) for applications –

Part 1: Integrated services digital network (ISDN) basic access

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International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch

Commission Electrotechnique Internationale
International Electrotechnical Commission
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FOREWORD

Amendment 1 to International Standard ISO/IEC 14709-1 was prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

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Contents

Add the following new title:

Annex A (normative) Characteristics of Category 3 and Category 5 (ISO/IEC 11801:1995) cables

Add, after Annex B:
Bibliography

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Foreword

Add, after the third paragraph, the following two new paragraphs:

Amendment 1 (2004) replaces subclause 6.6 of ISO/IEC 14709-1 by a generalised specification of the star configuration as another configuration option for dedicated ISDN cabling.

The requirements in this part of ISO/IEC 14709 have been derived from ITU-T Recommendation I.430 (Blue Book) and EN 300 012.

Delete the last paragraph of the introduction:

Annexes A and B of this part of ISO/IEC 14709 are for information only.

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Introduction

Add, after the existing paragraph, the following two new paragraphs:

For general safety requirements refer to IEC 60950-1 and for EMC requirements refer to IEC 61000-4 and CISPR 22.

Category 3 and category 5 cable definitions and requirements used in this standard are from the first edition of ISO/IEC 11801 (1995). The relevant values are given in Annex A, since the first edition of ISO/IEC 11801 has been replaced. Category 5 cable requirements as stated in ISO/IEC 11801 (first edition, 1995) are less stringent and do not include additional requirements specified in ISO/IEC 11801 (second edition, 2002).

Page 1

Scope

Add, at the end of the scope, the following new paragraph:

General safety and EMC requirements have not been included in this standard.

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2 Normative references

Replace “IEC 603-7” *by* “IEC 60603-7”.
This change applies to the whole document.

Add the following new document after publication IEC 60603-7:

EN 300 012-1, Integrated Services Digital Network (ISDN) – Basic User-Network Interface (UNI) – Part 1: Layer 1 specification

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4.1 Abbreviations

Add:

CP Consolidation point

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6.6 The star configuration

Replace the existing text of subclause 6.6 by the following new text and renumber the following figures accordingly.

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The star configuration which is shown in Figure 6a) is primarily intended for the domestic and small office/home office (SOHO) environment.

Requirements

The NT shall be configured in short passive bus mode. The maximum number of branches shall be 4 (four). The maximum length of cabling from the NT to the farthest telecommunications outlet in any branch (i.e. $d_8 + d_9$) shall not exceed

a) 50 m, if either installed balanced cables match Category 3 or if d_8 and d_9 are implemented mixing Category 3 and Category 5 (ISO/IEC 11801:1995) cables. Extension cords shall not be used to extend the cabling distance from NT to the socket beyond 50 m,

b) 100 m, if installed balanced cables match Category 5 (ISO/IEC 11801:1995). Extension cords shall not be used to extend the cabling distance from NT to the socket beyond 100 m.

NOTE For this application the minimum requirements of Category 3 cables and Category 5 cables as specified in the first edition of ISO/IEC 11801:1995 are applicable, see Annex A. For this application the low frequency requirements given in Annex A are not explicitly specified in ISO/IEC 11801: 2002.

It is recommended not to use spurs to connect telecommunications outlets. However, if spurs are present they shall not exceed 1 m.

The polarity of each wire of the balanced cable unit shall be maintained throughout the cabling.

The 100 Ω termination resistors shall be permanently connected to the star point for proper administration of this configuration.

The maximum number of telecommunications outlets in a branch may exceed 1 (one) provided that the maximum number of TEs attached does not exceed 4 (four).

The individual branches of the star configuration may be connected at the star point in the following ways:

— hardwired (as indicated in Figure 6a);

— using connecting hardware in accordance with ISO/IEC 11801 (see Figure 6b).

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