

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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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).

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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.

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).