INTERNATIONAL STANDARD

ISO/IEC 14709-2

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Information technology –
Configuration of Customer Premises Cabling (CPC) for applications –

Part 2:
Integrated Services Digital Network (ISDN) primary rate

Technologies de l'information –
Configuration du câblage dans les locaux d'usagers (CPC)
pour les applications –
Partie 2: Accès primaire au réseau numérique à intégration
de services (RNIS)

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FOREWORD

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75% of the national bodies casting a vote.

International Standard ISO/IEC 14709-2 has been prepared by Joint Technical Committee ISO/IEC JTC 1: Information technology, Subcommittee SC 25: Interconnection of information technology equipment.

This standard specifies Customer Premises Cabling for the connection of customer premises equipment with 1,544 Mbit/s and 2,048 Mbit/s interfaces to ISDN primary access and leased lines.

The requirements in this standard are derived from ITU-T I.431 (Blue Book, Volume III) and contain additional requirements as well as modifications of ITU-T I.431 and IEC 60603-7.

The reader is referred to IEC 60950 for general safety requirements.

Other standards in the series are:

ISO/IEC 14709-1:1997, *Information technology – Customer Premises Cabling (CPC) for applications – Part 1: Integrated Services Digital Network (ISDN) basic access*

ISO/IEC 14763-1:—, *Information technology – Implementation and operation of Customer Premises Cabling – Part 1: Administration* [1]

ISO/IEC 14763-2:—, *Information technology – Implementation and operation of Customer Premises Cabling – Part 2: Planning and installation of copper cabling* [2]

ISO/IEC 14763-3:—, *Information technology – Implementation and operation of Customer Premises Cabling – Part 3: Acceptance testing for optical cabling* [2]

ISO/IEC 14763-4:—, *Information technology – Implementation and operation of Customer Premises Cabling – Part 4: Testing of balanced copper cabling* [2]

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[1] To be published.

[2] Under consideration.

INTRODUCTION

This part of ISO/IEC 14709 is intended for use by those designing, planning, procuring, installing or testing cabling for ISDN primary access within a customer's premises. The design requirements are specified in clause 5; the minimum requirements for the associated components are specified in clause 7. In addition, guidance is given for the use of generic cabling in accordance with ISO/IEC 11801.

INFORMATION TECHNOLOGY –

CONFIGURATION OF CUSTOMER PREMISES CABLING (CPC) FOR APPLICATIONS –

Part 2: Integrated Services Digital Network (ISDN) primary rate

1   Scope

This part of ISO/IEC 14709 specifies the design and configuration of Customer Premises Cabling for the connection of primary access ISDN equipment.

It includes

– design requirements for ISDN primary access point-to-point configuration;
– cabling requirements for the installation of new cabling;
– criteria for the use of existing cabling;
– criteria for implementation of ISDN primary access on generic cabling systems according to ISO/IEC 11801.

This standard applies to the customer premises cabling for the transmission of ISDN primary access signals as defined by ITU-T I.431. The requirements in this standard apply to the cabling for both 1,544 Mbit/s and 2,048 Mbit/s interfaces.

2   Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 14709. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 14709 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60603-7:1996, *Connectors for frequencies below 3 MHz for use with printed boards – Part 7: Detail specification for connectors, 8-way, including fixed and free connectors with common mating features, with assessed quality*

IEC 60807-8:1992, *Rectangular connectors for frequencies below 3 MHz – Part 8: Detail specification for connectors, four-signal contacts and earthing contacts for cable screen*

CISPR 22:1997, *Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement*

CISPR 24:1997, *Information technology equipment – Immunity characteristics – Limits and methods of measurement*

ISO/IEC 11801:1995, *Information technology – Generic cabling for customer premises*

ISO/IEC 14709-1:1997, *Information Technology – Customer Premises Cabling (CPC) for applications – Part 1: Integrated Services Digital Network (ISDN) basic access*

ITU-T I.431: (Blue Book) *Integrated Services Digital Network (ISDN) – Primary user-network interface – Layer 1*