

INTERNATIONAL STANDARD

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

Part 1: Integrated Services Digital Network (ISDN) basic access

*Technologies de l'information — Configuration du câblage dans les locaux
d'utilisateurs (CPC) pour les applications —*

*Partie 1: Accès de base 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 14709-1 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 25, *Interconnection of information technology equipment*.

ISO/IEC 14709 consists of the following parts, under the general title *Information technology — Configuration of Customer Premises Cabling (CPC) for applications*:

- *Part 1: Integrated Services Digital Network (ISDN) basic access*
- *Part 2: Integrated Services Digital Network (ISDN) primary access*

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

Introduction

This part of ISO/IEC 14709 is intended for use by those designing, planning or procuring cabling for ISDN basic access within a customer's premises. The configurations in this part of ISO/IEC 14709 are designed to be effective when either implemented with cabling having the recommended characteristics, or implemented with the components 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 1:

Integrated Services Digital Network (ISDN) basic access

1 Scope

This part of ISO/IEC 14709 defines the requirements for the design and configuration of customer premises cabling for the connection of basic access ISDN equipment.

It defines

- design requirements for ISDN basic access with point-to-point and point-to-multipoint cabling configurations;
- minimum cabling requirements for the installation of new cabling;¹⁾
- criteria for the use of generic cabling;
- criteria for the use of existing cabling.

This part of ISO/IEC 14709 applies to the customer premises cabling. It describes the cabling requirements, needed to transmit ISDN basic access signals as defined by ITU-T Recommendation I.430. The requirements placed on the customer premises cabling are solely those necessary to enable terminal equipment conforming to ITU-T Rec. I.430 to operate into the Network Termination (NT) via configurations defined in this part of ISO/IEC 14709.

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.

ISO/IEC 8877:1992,	<i>Information technology - Telecommunications and information exchange between systems - Interface connector and contact assignments for ISDN Basic Access Interface located at reference points S and T.</i>
ISO/IEC 11801:1995,	<i>Information technology - Generic cabling for customer premises.</i>
IEC 603-7:1996,	<i>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.</i>
ITU-T Rec I.430 (Blue Book)	<i>ISDN user-network interface; Layer 1 recommendations.</i>

1) Although this part of ISO/IEC 14709 specifies the minimum requirements for cabling dedicated to ISDN basic access, it is highly recommended that cabling newly installed complies with ISO/IEC 11801 class B or higher.