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FOREWORD

1) ISO (International Organization for Standardization) and IEC (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.

2) 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.

3) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any of all such patent rights.

International Standard ISO/IEC 18010 was prepared by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2. Annexes A and B are for information only.

The committee has decided that this publication remains valid until 2007. At this date, in accordance with the committee’s decision, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.
INTRODUCTION

The telecommunications infrastructure is an integral part of building design. It may include voice, data, environmental control, security, audio, television, sensing, alarms, paging and other low voltage and power limited signal systems. These systems are subject to frequent changes. Design of the pathways and spaces should accommodate this dynamic behaviour. This Standard significantly influences the design of other building services, such as electrical power and heating, ventilation and air conditioning (HVAC).

ISO/IEC 18010 generally makes no specific recommendations among the design options available for telecommunications pathways and spaces. For example, the choice between a conduit system versus a tray system is not delineated. It is up to the telecommunications designer to properly select among the options based upon the applications at hand and the constraints imposed.

This standard generally imposes no specific requirements for the dimensions of pathways and spaces. The reader should refer to

- local regulations and standards,
- telecommunications service providers’ rules,
- manufacturers’ guidelines.
INFORMATION TECHNOLOGY –
PATHWAYS AND SPACES FOR CUSTOMER PREMISES CABLING

1 Scope

This International Standard specifies the structure and requirements for pathways and spaces within or between buildings for information exchange and telecommunications cabling according to ISO/IEC 11801 and ISO/IEC 15018.

This International Standard also influences space allocation within the building. Both single- and multi-tenant buildings are considered by this Standard.

This standard does not cover safety aspects of the building design, fire stopping measures or telecommunications systems that require any special types of security measures.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050(826), International Electrotechnical Vocabulary – Chapter 826: Electrical installations of buildings

IEC 60364-4-41, Electrical installations of buildings – Part 4-41: Protection for safety – Protection against electric shock

IEC 60364-4-44, Electrical installations of buildings – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances

IEC 60364-5-52, Electrical installations of buildings – Part 5-52: Selection and erection of electrical equipment – Wiring systems

IEC 61084 (all parts), Cable trunking and ducting systems for electrical installations

IEC 61386 (all parts), Conduit systems for electrical installations – Part 1: General requirements

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


ISO/IEC 15018, Information technology – Integrated cabling for all services other than mains power in homes, SOHO (Small Office, Home Office), and buildings

1) Under consideration.