INTERNATIONAL STANDARD

# ISO/IEC 9983

Second edition
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# Information technology — Designation of unrecorded flexible disk cartridges

*Technologies de l'information — Désignation des cartouches à disquettes vierges*

Reference number
ISO/IEC 9983:1995(E)

Contents

## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrical Commission) form the specialized system for world-wide 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 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 9983 was prepared by the European Computer Manufacturers Association (as Standard ECMA-124) and was adopted, under a special "fast-track procedure", by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

This second edition cancels and replaces the first edition (ISO/IEC 9983:1989), which has been technically revised.

Annex A of this International Standard is for information only.

## Introduction

Since the beginning of their activity in the field of standardization of flexible disk cartridges ISO has issued standards for such cartridges of three different sizes, viz. 200 mm (8 in), 130 mm (5,25 in) and 90 mm (3,5 in). It can be foreseen that in not too distant a future further smaller sizes may be considered.

Some of these cartridges, whilst having the same size, do not have the same magnetic characteristics and, therefore, should be used only with the physical recording density and the number of tracks for which they have been designed.

In practice, however, they are offered commercially to end users in packages bearing indications (e.g. 1D, DD, HD, etc.) which are clear for those skilled in the art but quite obscure to the average buyer. As a consequence it was necessary to arrive at a consensus on type designation to be used nationally and internationally. Investigations have shown that manufacturers of flexible disk cartridges are willing to print the proposed designation in addition to the presently used identifiers which would remain during a transition period. The proposed designation is explicit in that it specifies not only a type, but also minimum information indicating the main parameters as well.

In the interests of users it is desirable that the scheme described be implemented now and as a whole. However, as the suppliers of flexible disk cartridges, drives and systems have already developed their own designations for cartridges, and their own procedures for marking packages, it would be expensive to implement the whole scheme immediately. It is expected that suppliers will introduce the specified marking of cartridges and packages, and the references in manuals, as soon as the re-ordering of cases, packaging and printing makes this economically possible.

# Information technology - Designation of unrecorded flexible disk cartridges

## 1 Scope

This International Standard specifies an identifier to appear on each flexible disk cartridge (FDC) and the minimum information to appear on packages of unrecorded flexible disk cartridges.

The information according to this International Standard shall appear on cartridges and on packages of unrecorded flexible disk cartridges available to end users. Drives for FDCs should bear the indication of the Type(s) of FDC they can handle. Manuals for drives and systems should also include this information.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard 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 standards.

ISO 5654-1:1984, *Information processing - Data interchange on 200 mm (8 in) flexible disk cartridges using two-frequency recording at 13 262 ftprad, 1,9 tpmm (48 tpi), on one side - Part 1: Dimensional, physical and magnetic characteristics.*

ISO 6596-1:1985, *Information processing - Data interchange on 130 mm (5,25 in) flexible disk cartridges using two-frequency recording at 7 598 ftprad, 1,9 tpmm (48 tpi), on one side - Part 1: Dimensional, physical and magnetic characteristics.*

ISO 7065-1:1985, *Information processing - Data interchange on 200 mm (8 in) flexible disk cartridges using modified frequency modulation recording at 13 262 ftprad, 1,9 tpmm (48 tpi), on both sides - Part 1: Dimensional, physical and magnetic characteristics.*

ISO/IEC 7487-1:1993, *Information technology - Data interchange on 130 mm (5,25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad, 1,9 tpmm (48 tpi), on both sides - ISO Type 202 - Part 1: Dimensional, physical and magnetic characteristics.*

ISO 8378-1:1986, *Information processing - Data interchange on 130 mm (5,25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad, 3,8 tpmm (96 tpi), on both sides - Part 1: Dimensional, physical and magnetic characteristics.*

ISO 8630-1:1987, *Information processing - Data interchange on 130 mm (5,25 in) flexible disk cartridges using modified frequency modulation recording at 13 262 ftprad, on 80 tracks on each side - Part 1: Dimensional, physical and magnetic characteristics.*

ISO 8860-1:1987, *Information processing - Data interchange on 90 mm (3,5 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad on 80 tracks on each side - Part 1: Dimensional, physical and magnetic characteristics.*

ISO/IEC 9529-1:1989, *Information processing systems - Data interchange on 90 mm (3,5 in) flexible disk cartridges using modified frequency modulation recording at 15 916 ftprad, on 80 tracks on each side - Part 1: Dimensional, physical and magnetic characteristics.*

ISO/IEC 10994 :1992, *Information technology - Data interchange on 90 mm flexible disk cartridges using modified frequency modulation recording at 31 831 ftprad on 80 tracks on each side - ISO Type 303.*

ISO/IEC 13422:1994, *Information technology - Data interchange on 90 mm Flexible Disk Cartridges 10 Mbyte capacity using sector servo tracking - ISO type 304.*

ISO/IEC 14169:1995, *Information technology - 90 mm flexible disk cartridges - 21 Mbyte, inner zone 31 831 ftprad, outer zone 47 747 ftprad, for sector servo tracking.*

## 3 Specification of the identifier

The identifier shall consist of the word **Type** followed by three digits **XYZ**.

– digit X shall identify FDCs of the same size.

X = 1 shall identify FDCs of 200 mm (8 in)

X = 2 shall identify FDCs of 130 mm (5,25 in)

X = 3 shall identify FDCs of 90 mm (3,5 in)

When needed, further values of X may be included in future editions of this International Standard.

– digits YZ shall be a two-digit serial number starting with 01.

## 4 Information on packages

The information on packages shall include the following:

– the identifier;

– a statement that the FDCs conform to an identified International Standard;

– the size;

– the number of recordable sides;

– the number of tested tracks per side;

– the unformatted capacity expressed in number of bytes.

This information shall be presented as shown and preferably within a frame.

ISO Type XYZ

These flexible disk cartridges
conform to International Standard ISO ...

Size: ... mm (... in)
Recordable sides: ...
Tested tracks per side: ...
Unformatted capacity: ... bytes

## 5 Information on the flexible disk cartridge

The flexible disk cartridge shall bear at least the identifier: ISO Type XYZ.

## 6 Allocation of type numbers

In each International Standard for flexible disk cartridges the identifier number shall be specified.

## 7 Type numbers of already published International Standards

The flexible disk cartridges according to International Standards already issued shall be identified as follows (see annex A):

Type 101: ISO 5654-1
Type 102: ISO 7065-1

Type 201: ISO 6596-1
Type 202: ISO/IEC 7487-1
Type 203: ISO 8378-1
Type 204: ISO 8630-1

Type 301: ISO 8860-1
Type 302: ISO/IEC 9529-1
Type 303: ISO/IEC 10994
Type 304: ISO/IEC 13422
Type 305: ISO/IEC 14169

# Annex A

(informative)

## Main characteristics of FDCs available

| Type | International Standard | Size mm (in) | Number of recordable sides | Tested tracks per side | Unformatted capacity Mbytes |
|---|---|---|---|---|---|
| 101 | ISO 5654-1 | 200 (8) | 1 | 77 | 0,4 |
| 102 | ISO 7065-1 | 200 (8) | 2 | 77 | 1,6 |
| 201 | ISO 6596-1 | 130 (5,25) | 1 | 35 | 0,1 |
| 202 | ISO/IEC 7487-1 | 130 (5,25) | 2 | 40 | 0,5 |
| 203 | ISO 8378-1 | 130 (5,25) | 2 | 80 | 1,0 |
| 204 | ISO 8630-1 | 130 (5,25) | 2 | 80 | 1,6 |
| 301 | ISO 8860-1 | 90 (3,5) | 2 | 80 | 1,0 |
| 302 | ISO/IEC 9529-1 | 90 (3,5) | 2 | 80 | 2,0 |
| 303 | ISO/IEC 10994 | 90 (3,5) | 2 | 80 | 4,0 |
| 304 | ISO/IEC 13422 | 90 (3,5) | 2 | 255 | 10,0 |
| 305 | ISO/IEC 14169 | 90 (3,5) | 2 | 326 | 21,0 |

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