AS 3605.1—1988
ISO 7065/1-1985

Australian Standard®

# INFORMATION PROCESSING—DATA INTERCHANGE ON 200 mm FLEXIBLE DISK CARTRIDGES USING MODIFIED FREQUENCY MODULATION RECORDING AT 13 262 ftprad, 1.9 tpmm, ON BOTH SIDES

## Part 1—DIMENSIONAL, PHYSICAL AND MAGNETIC CHARACTERISTICS

(ISO Title: 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)

This Australian Standard was prepared by Committee IS/1, Information Processing Systems. It was approved on behalf of the Council of the Standards Association of Australia on 14 September 1988 and published on 12 December 1988.

---

The following interests are represented on Committee IS/1:

Australian Association of Permanent Building Societies
Australian Bankers' Association
Australian Bureau of Statistics
Australian Computer Equipment Manufacturers Association
Australian Computing Services Association
Australian Computer Users Association
Australian Information Industry Association
Canberra College of Advanced Education
CSIRO, Division of Information Technology
Department of Defence
Department of Industry, Technology and Commerce
Latrobe University
Life Insurance Federation of Australia
Public Service Board, N.S.W.
Telecom Australia
University of Technology, Sydney

---

Australian Standard®

# INFORMATION PROCESSING—DATA INTERCHANGE ON 200 mm FLEXIBLE DISK CARTRIDGES USING MODIFIED FREQUENCY MODULATION RECORDING AT 13 262 ftprad, 1.9 tpmm, ON BOTH SIDES

## Part 1—DIMENSIONAL, PHYSICAL AND MAGNETIC CHARACTERISTICS

First published as AS 3605.1—1988.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 5286 7

## PREFACE

This Standard was prepared by the Association's Committee on Information Processing Systems and it is part of an ongoing program of review and addition of Input/Output Media Standards. It is identical with and has been reproduced from International Standard ISO 7065/1-1985, drawn up by ISO TC97, Information Processing Systems.

For the purposes of this Australian Standard, the ISO text should be modified as follows:

(a) *Terminology*—The words 'Australian Standard' should replace the words 'International Standard' wherever they appear.

(b) *Cross-reference*—The references to International Standards should be replaced by references to Australian Standards as follows:

| *Reference to International Standard* | | *Australian Standard* | |
|---|---|---|---|
| ISO | | AS | |
| 646 | Information processing—ISO 7-bit coded character set for information interchange | 1776 | Information processing—7-bit coded character set for information interchange |
| 2022 | Information processing—ISO 7-bit and 8-bit coded character sets—Code extension techniques | 1953 | Information processing—7-bit and 8 bit coded character sets—Code extension techniques |

## Contents

# Information processing—Data interchange on 200 mm flexible disk cartridges using modified frequency modulation recording at 13 262 ftprad, 1.9 tpmm on both sides—Part 1: Dimensional, physical and magnetic characteristics

## 0 Introduction

ISO 7065 specifies the characteristics of 200 mm (8 in) flexible disk cartridges recorded at 13 262 ftprad, 1,9 tpmm (413 tpi), on both sides using modified frequency modulation recording.

ISO 7065/2 specifies the quality of recorded signals, the track layout, and the track format to be used on a 200 mm (8 in) flexible disk cartridge, recorded at 13 262 ftprad, 1,9 tpmm (48 tpi), on both sides, using modified frequency modulation recording, which is intended for data interchange between data processing systems.

Together with the labelling scheme specified in ISO 7665, ISO 7065/1 and ISO 7065/2 provide for full data interchange between data processing systems.

## 1 Scope and field of application

This part of ISO 7065 specifies the dimensional, physical and magnetic characteristics of the cartridge, so as to provide physical interchangeability between data processing systems.

NOTE — Numeric values in the SI and/or Imperial measurement systems in this International Standard may have been rounded and therefore are consistent with, but not exactly equal to, each other. Either system may be used, but the two should be neither intermixed nor reconverted. The original design was made using the Imperial measurement system.

## 2 References

ISO 646, *Information processing — ISO 7-bit coded character set for information interchange.*

ISO 2022, *Information processing — ISO 7-bit and 8-bit coded character sets — Code extension techniques.*

ISO 4873, *Information processing — 8-bit code for information interchange — Structure and rules for implementation.*

ISO 7665, *Information processing — File structure and labelling of flexible disc cartridges for information interchange.*

## 3 Definitions

For the purpose of this International Standard the following definitions apply:

**3.1 flexible disk:** A flexible disk which accepts and retains on the specified side or sides magnetic signals intended for input/output and storage purposes of information data processing and associated systems.

**3.2 reference flexible disk cartridge:** A flexible disk cartridge arbitrarily selected for a given property for calibrating purposes.

**3.3 secondary reference flexible disk cartridge:** A flexible disk cartridge intended for routine calibrating purposes, the performance of which is known and stated in relation to that of the reference flexible disk cartridge.

**3.4 signal amplitude reference flexible disk cartridge:** A reference flexible disk cartridge selected as a standard for recording field and signal amplitude.

On side 0 of this cartridge track 00, having a radius of 91,754 mm (3.6124 in) and track 76, having a radius of 51,537 mm (2,029 0 in) are declared as reference tracks. To provide a standard for side 1 the same surface is used by turning the disk over in the jacket. Under these conditions track 00 has now a radius of 89,637 mm (3.529 0 in) and is not a reference track. However, its correlation with the reference track having a radius of 91,754 mm (3.612 4 in) is sufficiently close for the purpose of this International Standard. Track 72 having a radius of 51,537 mm (2.029 0 in) is a reference track and is therefore used instead of track 76.

NOTE — A master standard for signal amplitudes, reference fields, overwrite and resolution characteristics has been established by the Physikalisch-Technische Bundesanstalt (PTB), Bundesallee 100 in Braunschweig, Germany, F.R. Secondary reference flexible disk cartridges can be ordered from PTB, Lab 5.11, under part number RM 5654 as long as available.