

AS 3605.2—1988
ISO 7065/2-1985

Australian Standard[®]

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

Part 2—TRACK FORMAT

(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 tpm (48 tpi), on both sides—
Part 2: Track format)

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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 7065/2, 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:

<i>Reference to International Standard</i>	<i>Australian Standard</i>
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

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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 2: Track format

0 Introduction

ISO 7065 specifies the characteristics of 200 mm (8 in) flexible disk cartridges recorded at 13 262 ftprad, 1,9 tpmm (48 tpi), on both sides using modified frequency modulation (MFM) recording.

ISO 7065/1 specifies the dimensional, physical, and magnetic characteristics of the cartridge, so as to provide physical interchangeability 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 magnetic characteristics, the track layout, and a track format to be used on a 200 mm (8 in) flexible disk cartridge, recorded at 13 262 ftprad on both sides using modified frequency modulation recording at a track density of 1,9 tracks per millimetre (tpmm) [48 tracks per inch (tpi)] which is intended for data interchange between data processing systems.

NOTE — Numeric values in the SI and/or Imperial measurement system in this International Standard may have been rounded off and are therefore 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 of this part of ISO 7065 was made using the Imperial measurement system.

2 Conformance

A flexible disk cartridge shall be in conformance with ISO 7065 when it meets all the requirements of parts 1 and 2 of ISO 7065 and when it implements one of the three sector sizes specified in 4.11.

Data interchange is possible only when the interchange parties implement the same sector size.

NOTE — ISO 7665 specifies a field in the VOL label in which the implemented sector size is identified.

3 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 – ISO 8-bit code for information interchange – Structure and rules for implementation.*

ISO 7065/1, *Information processing – Data interchange on 200 mm (8 in) flexible disk cartridge 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 7665, *Information processing – File structure and labelling of flexible disk cartridges for information interchange.*

4 General requirements

4.1 Mode of recording

4.1.1 Track 00, side 0

The mode of recording shall be two-frequency where the start of every bit cell is a clock flux transition. A ONE is represented by a data flux transition between two clock flux transitions. Exceptions to this are defined in 4.12.

4.1.2 All tracks excluding track 00, side 0

The mode of recording shall be modified frequency modulation (MFM) for which the conditions are

- a) a flux transition shall be written at the centre of each bit cell containing a ONE.
- b) a flux transition shall be written at each cell boundary between consecutive bit cells containing ZERO's.

Exceptions to this are defined in 4.12.