

AS 3630.2—1988  
ISO 8630-3:1987

Australian Standard<sup>®</sup>

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**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 2—TRACK FORMAT B FOR  
80 TRACKS**

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(ISO Title: 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 3: Track format B for 80 tracks)

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 21 November 1988 and published on 12 December 1988.

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The following interests are represented on Committee IS/1:

Australian Association of Permanent Building Societies  
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Australian Computer Equipment Manufacturers Association  
Australian Computing Services Association  
Australian Computer Users Association  
Australian Information Industry Association  
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## PREFACE

This Standard was prepared by the Association's Committee on Information Processing Systems. It is identical with and has been reproduced from International Standard ISO 8630-3, drawn up by ISO TC 97, Information Processing Systems.

It is part of an ongoing program of review and addition of Input/Output Media Standards.

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

- (a) *Terminology*—The words 'Australian Standard' should replace the words 'International Standard' wherever they apply.
- (b) *Cross-reference*—The references to International Standards should be replaced by reference to Australian Standards as follows:

<i>Reference to International Standards</i>	<i>Relevant 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—ISO 7-bit and 8-bit coded character sets—Code extension techniques
6429 Information processing—7-bit and 8-bit coded character sets—Additional control functions for character-imaging devices	2761 Information processing—7-bit and 8-bit coded character sets—Additional control functions for character-imaging devices

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# 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 2: Track format B for 80 tracks

## 0 Introduction

ISO 8630 specifies the characteristics of 130 mm (5.25 in) flexible disk cartridges recorded at 13 262 ftprad, using modified frequency modulation (MFM) recording, on 80 tracks on each side.

ISO 8630-1 specifies the dimensional, physical and magnetic characteristics of the cartridge, so as to provide physical interchangeability between data processing systems.

ISO 8630-2 specifies an alternative track format for data interchange.

ISO 8630-1 and ISO 8630-3, together with the labelling scheme specified in ISO 9293, provide for full data interchange between data processing systems.

## 1 Scope and field of application

This part of ISO 8630 specifies the quality of recorded signals, the track layout, and a track format to be used on 130 mm (5.25 in), 13 262 ftprad flexible disk cartridges intended for data interchange between data processing systems.

NOTE — Numeric values in the SI and/or Imperial measurement systems in this part of ISO 8630 may have been rounded off 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 re-converted. The original design was made using Imperial units and further developments were made using SI units.

## 2 Conformance

A flexible disk cartridge shall be in conformance with ISO 8630 when it meets all the requirements of parts 1 and 3 of ISO 8630.

NOTE — ISO 9293 specifies a field in the volume label.

## 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 429, *Information processing — ISO 7-bit and 8-bit character sets — Additional control functions for character-imaging devices*.

ISO 9293, *Information processing — Volume and file structure of flexible disk cartridges for information interchange*.

## 4 General requirements

### 4.1 Mode of recording

The mode of recording shall be Modified Frequency Modulation (MFM) for which the conditions are

- a flux transition shall be written at the centre of each bit cell containing a ONE;
- a flux transition shall be written at each cell boundary between consecutive bit cells containing ZEROS.

Exceptions to this are defined in 4.12.

### 4.2 Track location tolerance of the recorded flexible disk cartridge

The centrelines of the recorded tracks shall be within  $\pm 0,042 5$  mm ( $\pm 0.001 67$  in) of the nominal positions, over the range of operating environment specified in ISO 8630-1.