

Australian Standard<sup>®</sup>

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**INFORMATION PROCESSING—**

**DATA INTERCHANGE ON  
130 mm (5.25 in) FLEXIBLE  
DISK CARTRIDGES USING  
TWO-FREQUENCY RECORDING  
AT 7 958 ftprad, 1.9 tpmm  
(48 tpi), ON ONE SIDE—  
PART 1: DIMENSIONAL,  
PHYSICAL AND MAGNETIC  
CHARACTERISTICS**

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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 7 January 1986 and published on 3 February 1986.

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The following interests are represented on Committee IS/1:

Australian Association of Permanent Building Societies  
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Australian Bureau of Statistics  
Australian Computer Equipment Manufacturers Association  
Australian Computer Society  
Australian Computer Users Association  
Australian Information Industry Association  
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*This standard was issued in draft form for comment as DR 83041.*

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First published . . . . . 1986
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PUBLISHED BY STANDARDS AUSTRALIA  
(STANDARDS ASSOCIATION OF AUSTRALIA)  
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 4055 9

## PREFACE

This standard was prepared by the Association's Committee on Information Processing Systems. It has been reproduced from International Standard ISO 6596/1—1985, drawn up by ISO/TC 97, Information Processing Systems.

This standard is based on the ISO standard above but includes two alterations as follows:

- (a) The wording in Section 6.1.9 has been altered to make clear that material used to cover the write-enable notch must be suitable for mechanical or optical detection systems.
- (b) Figure 4 has been corrected to place the index window in the right relative position on the drawing.

For the purpose of this Australian standard, the text of the ISO standard used herein should be modified as follows:

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

<i>Reference to International Standard</i>	<i>Appropriate Australian Standard</i>
ISO—646, Information processing—7-bit coded character set for information interchange	AS 1776, Information processing—7-bit coded character set for information interchange
ISO 2022, Information Processing—ISO 7-bit and 8-bit coded character sets—Code extension techniques	AS 1953, Code extension techniques for use with the standard 7-bit coded character set
ISO 7665, Information Processing—File Structure and Labelling of flexible disk cartridges for information interchange	AS 2765, Information Processing—File structure and labelling of flexible disk cartridges for information interchange

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# Information processing — Data interchange on 130 mm (5.25 in) flexible disk cartridges using two-frequency recording at 7 958 ftprad, 1,9 tpmm (48 tpi), on one side — Part 1: Dimensional, physical and magnetic characteristics

## 0 Introduction

ISO 6596 specifies the characteristics of 130 mm (5.25 in) flexible disk cartridges recorded at 7 958 ftprad on one side using two-frequency recording.

ISO 6596/2 specifies the quality of recorded signals, the track layout, and the track format to be used on a 130 mm (5.25 in) flexible disk cartridge, recorded at 7 958 ftprad, 1,9 tpmm (48 tpi), on one side, using two-frequency recording, which is intended for data interchange between data processing systems.

Together with the labelling scheme to be specified in ISO 7665, ISO 6596/1 and ISO 6596/2 provide for full data interchange between data processing systems.

## 1 Scope and field of application

This part of ISO 6596 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 system 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 Imperial units and further developments were made using SI units.

## 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.

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, FR. Secondary reference flexible disk cartridges can be ordered from PTB Lab 5.11 under part number RM 6596 as long as available.

**3.5 typical field** : The minimum recording field which, when applied to a flexible disk cartridge, causes a signal output equal to 95 % of the maximum average signal amplitude when taken as a function of the recording field at the specified track and flux transition frequency of that flexible disk cartridge.

**3.6 reference field** : The typical field of the signal amplitude reference flexible disk cartridge.