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INFORMATION PROCESSING—DATA INTERCHANGE ON 130 mm (5.25 in) FLEXIBLE DISK CARTRIDGES USING MODIFIED FREQUENCY MODULATION RECORDING AT 7 958 ftprad, 1.9 tr/mm (48 tpi), ON BOTH SIDES—DIMENSIONAL, PHYSICAL AND MAGNETIC CHARACTERISTICS

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PREFACE

This standard was prepared by the Association's Committee on Information Processing Systems. It has been reproduced from International Standard ISO 7487/1—1985, drawn up by ISO/TC 97, Information Processing Systems.

The purpose of this standard is to specify the dimensional, physical and magnetic characteristics of the cartridge so as to provide physical interchangeability between data processing systems.

There are so many different track formats in use that the Australian committee felt that it was inappropriate to publish any, particularly as the two endorsed by ISO are not dominant. For this reason, Australian versions of ISO 7487/2 and ISO 7487/3 will not be published.

For the purpose of this Australian standard, Clause 11, Marking, has been added to the text of the ISO standard used herein. In addition, the text of the ISO standard should be modified as follows:

(a) The words 'Part 1' are deleted from the ISO title.

(b) Terminology: The words 'Australian Standard' should replace the words 'International Standard' wherever they appear.

(c) Cross-references: The references to International Standards should be replaced by references to Australian standards as follows:

Reference to International Standard	*Appropriate Australian Standard*
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 1958, Code extension techniques for use with the standard 7-bit coded character set
ISO 4873-1979, Information processing—8-bit coded character set for information interchange.	No Australian equivalent.
ISO 7487, Information processing—Data interchange on 130 mm (5.25 in) flexible disk cartridges using modified frequency modulation recording at 7 958 ftprad, 1.9 ftprad (48 tpi), on both sides—	
Part 2: Track format A	No Australian equivalent.
Part 3: Track format B	No Australian equivalent.
ISO 2665, 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.

Contents

		Page
0	Introduction	5
1	Scope and field of application	5
2	Conformance	5
3	References	5
4	Definitions	5
5	General description	6
6	General requirements	6
7	Dimensional characteristics	7
8	Physical characteristics	9
9	Magnetic characteristics	10
10	Bibliography	11
11	Marking	11

Annexes

A	Measurement of the cartridge thickness	15
B	Measurement of light transmittance	17
C	Method for measuring the effective track width	19
D	Use of hub support rings	20

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Information processing — 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 — Dimensional, physical and magnetic characteristics

0 Introduction

ISO 7487 specifies the characteristics of 130 mm (5.25 in) flexible disk cartridges recorded at 7 958 ftprad, 1,9 tpmm (48 tpi), on both sides using modified frequency modulation recording.

ISO 7487/2 and ISO 7487/3 each specify the quality of recorded signals, the track layout, and a track format to be used on such a flexible disk cartridge, which is intended for data interchange between data processing systems.

Together with the labelling scheme specified in ISO 7665, ISO 7487/1 and ISO 7487/2 provide for full data interchange between data processing systems.

1 Scope and field of application

This part of ISO 7487 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 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 7487 when it meets all the requirements of ISO 7487/1 and those of either ISO 7487/2 or ISO 7487/3.

3 References

ISO 7487, *Information processing — 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—*

Part 2: Track format A

Part 3: Track format B

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

4 Definitions

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

4.1 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.

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

4.3 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.

4.4 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, F. R. Secondary reference flexible disk cartridges can be ordered from PTB Lab 5.11 under part number RM 7487 as long as available.

4.5 typical field (for each side): The minimum recording field, which, when applied to a flexible disk cartridge, causes a signal output equal to 95 % of the maximum average signal