
International Standard



7487/3

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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 3 : Track format B

Traitement de l'information — Échange de données sur cartouches à disquette de 130 mm (5,25 in) utilisant un enregistrement à modulation de fréquence modifiée à 7 958 ftprad, 1,9 tpmm (48 tpi), sur les deux faces — Partie 3 : Schéma de piste B

Second edition — 1986-11-15

UDC 681.327.63

Ref. No. ISO 7487/3-1986 (E)

Descriptors : data processing, information interchange, magnetic disks, flexible disks, track formats, layout, specifications, quality.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7487/3 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

This second edition cancels and replaces the first edition (ISO 7487/3-1984), of which it constitutes a minor revision.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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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 —

Part 3 : Track format B

0 Introduction

ISO 7487 specifies the characteristics of 130 mm (5.25 in) flexible disk cartridges recorded at 7 958 ftprad, on 40 tracks on each side, using modified frequency modulation (MFM) recording.

ISO 7487/1 specifies the dimensional, physical, and magnetic characteristics of the cartridge so as to provide physical interchangeability between data processing systems.

ISO 7487/1 and ISO 7487/3, together with the labelling scheme specified in ISO 9293, provide for full data interchange between data processing systems.

ISO 7487/2 specifies an alternative track format for data interchange.

1 Scope and field of application

This part of ISO 7487 specifies the quality of recorded signals, the track layout, and a track format to be used on 130 mm (5.25 in) flexible disk cartridges 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 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 of this part of ISO 7487 was made using SI units.

2 Conformance

A flexible disk cartridge shall be in conformance with ISO 7487 when it meets all the requirements either of parts 1 and 2 or of parts 1 and 3 of ISO 7487.

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 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 two sides —*

Part 1 : Dimensional, physical and magnetic characteristics.

Part 2 : Track format A.

ISO 9293, *Information processing — Volume and file structure of flexible disk cartridges for information interchange.*¹⁾

4 Track format

4.1 General requirements

4.1.1 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 4.1.12.

1) At present at the stage of draft.