International Standard

ISO 7487/2

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

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 deux faces — Partie 2 : Schéma de piste A

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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 7487/2 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

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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 (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.

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.

ISO 7487/3 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 such a flexible disk cartridge, 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 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 both sides —*

   Part 1 : Dimensional, physical and magnetic characteristics.

   Part 3 : Track format B.

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

4 Track format

4.1 General requirements

4.1.1 Mode of recording

4.1.1.1 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 4.1.12.

4.1.1.2 All tracks other than 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.