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INTERNATIONAL STANDARD

ISO/IEC 18836

First edition 2001-02-15

Information technology — 8 mm wide magnetic tape cartridge for information interchange — Helical scan recording — MammothTape-2 format

Technologies de l'information — Cartouche de bande magnétique de 8 mm de large pour l'échange d'information — Enregistrement par balayage en spirale — Format «MammothTape-2»



Reference number ISO/IEC 18836:2001(E)

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Printed in Switzerland

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Contents

Section	n 1 - General	1
1	Scope	1
2	Conformance	1
2.1 2.2 2.3	Magnetic tape cartridges Generating drive Receiving drive	1 1 1
3	References	1
4	Definitions	1
$\begin{array}{c} 4.1\\ 4.2\\ 4.3\\ 4.4\\ 4.5\\ 4.6\\ 4.7\\ 4.8\\ 4.9\\ 4.10\\ 4.11\\ 4.12\\ 4.13\\ 4.14\\ 4.15\\ 4.16\\ 4.17\\ 4.18\\ 4.19\\ 4.20\\ 4.21\\ 4.22\\ 4.23\\ 4.24\\ 4.25\\ 4.26\\ 4.27\\ 4.28\\ 4.29\\ 4.30\\ 4.31\\ 4.32\end{array}$	a.c. erase algorithm Average Signal Amplitude azimuth back surface bit cell byte cartridge Channel bit Cyclic Redundancy Check (CRC) character Error Correcting Code (ECC) File Mark Logical Beginning of Partition (LBOP) Logical Block magnetic tape Master Standard Reference Tape Partition Physical Beginning of Partition (PBOP) Physical Beginning of Tape (PBOT) Physical Beginning of Tape (PBOT) Physical Beginning of Tape (PBOT) Physical End of Tape (PEOT) Physical End of Tape (PEOT) Physical recording density Read Back Check (RBC) Reference Field Secondary Standard Reference Tape (SSRT) Set Mark Standard Reference Amplitude (SRA) Standard Reference Current (Ir) Tape Reference Edge Test Recording Current (TRC) Track	$1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $
4.32 5	rypical Field	3 2
5.1 5.2	Representation of numbers Names	3 3
6	Acronyms	3

7	Environment and Safety	4
7.1	Testing environment	4
7.2	Operating environment	4
7.3	Storage environment	4
7.4 7.5	Safety	4
7.6	Flammability	4
Section	n 2 - Requirements for the case	5
8	Dimensional and mechanical characteristics of the case	5
8.1	General	5
8.2	Overall dimension	5
8.3	Holding areas	6
8.4	Cartridge insertion	6
8.5	Window	7
8.6 8 7	Loading grips	7
8.8	Datum areas and datum holes	7
8.9	Support areas	8
8.10	Recognition holes	9
8.11	Write-inhibit hole	9
8.12	Pre-positioning surfaces	10
8.13	Cartridge lid	10
0.14 8 15	Cartinge reel lock	11
8.16	Interface between the reels and the drive spindles	12
8.17	Light path	14
8.18	Position of the tape in the case	14
8.19	Tape path zone	14
8.20	Tape access cavity	15
8.21	Tape access cavity clearance requirements	15
Section	n 3 - Requirements for the Unrecorded Tape	32
9	Mechanical, physical and dimensional characteristics of the tape	32
9.1	Materials	32
9.2	Tape length	32
9.2.1	Length of the magnetic tape	32
9.2.2	Length of leader and trailer tapes	32
9.2.3	Length of the splicing tape	32
0.3	Width	32
031	Width of magnetic, cleaning, leader and trailer tane	32
9.3.2	Width and position of the splicing tape	33
9.3.3	Edge weave	33
9.4	Discontinuities	34
9.5	Thickness	34
9.5.1	Thickness of the magnetic tape	34
9.5.2	Thickness of the cleaning tape	34
9.5.3 0 5 4	Thickness of leader and trailer tape Thickness of the splice tape	34
7.3.4	The kness of the sphee tape	33
9.6	Longitudinal curvature	35
9.7 0.0	Cupping Costing adhesion	35
7.8 9.9	Laver-to-laver adhesion	- 35 - 36
9.10	Tensile strength	36

9.10.1	Breaking strength	36
9.10.2	Yield strength	36
9.11	Residual elongation	36
9.12	Electrical resistance of the recording surface	36
9.13	Tape winding	37
9.14	Light transmittance of tape	37
9.15	Abrasivity	37
10	Magnetic recording characteristics	37
10.1	Test conditions	37
10.2	Typical Field	37
10.3	Signal Amplitude	38
10.4	Resolution	38
10.5	Signal-to-Noise Ratio	38
10.6	Ease of erasure	39
10.7	Tape quality	39
10.7.1	Missing pulses	39
10.7.2	Missing pulse zone	39
10.7.3	Overwrite	39
Section	4 - Requirements for an Interchanged Tape	40
11	Track Format	40
11.1	General	40
11.2	Physical block format	41
11.2.1	Logical Transfer Segment (LTS)	41
11.2.2	Compression Unit	42
11.2.3	Physical block	43
11.2.4	Information Matrix	50
11.2.5	Recorded patterns	51
11.3	Search field format	51
11.3.1	Search field data	51
11.3.2	Search field CRC and ECC	53
11.3.3	Search field recording patterns	53
11.4	Servo area	53
11.5	Track layout	53
12	Method of recording	56
12.1	Physical Recording Density	56
12.1.1	Long Term Average Bit Cell Length	56
12.1.2	Short Term Average Bit Cell Length	56
12.1.3	Rate of Change	56
12.2	Bit Shift	57
12.3	Amplitude of Data Signals	57
13	Track geometry	57
13.1	General	57
13.2	Track pitch	57
13.3	Average track pitch	57
13.4	Track width	58
13.5	Track angle	58
13.6	Track length	58
13.7	Guard band	58
13.8	Azimuth angles	58
13.9	Track linearity	58

14	Layout of a tape	58	
14.1 14.2 14.3 14.4 14.5	General Tape History Log (THL) Physical Beginning of Partition Logical Beginning of Partition Data area	58 58 59 59 59	
14.5.1 14.5.2 14.5.3 14.5.4	General Short File Mark Long File Mark Set Mark	59 59 59 59	
14.6 14.7	End of Data Physical End of Partition (PEOP)	59 59	
Annexe	es		
A (normative) - Measurement of Light Transmittance of Tape and Leaders		60	
B (normative) - Tape abrasivity measurement procedure		63	
C (normative) - Generation of the Logical Block CRC		65	
D (normative) - ECC3 Check Bytes 6			
E (normative) - Generation of the Data Area CRC		67	
F (norn	F (normative) - Generation of the ECC		
G (norr	G (normative) - Pre-coder		
H (norr	native) - Representation of 8-bit bytes by 10-bit patterns	70	
J (norm	native) - Randomisation	77	
K (norr	K (normative) - Generation of the Search Field CRC		
L (norm	L (normative) - The Search Field ECC		
M (nor	M (normative) - Measurement of bit shift		
N (info	N (informative) - Recommendations for transportation		

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

This International Standard was prepared by ECMA (as ECMA-293) and was adopted, under a special "fast-track procedure", by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

Annexes A to M form a normative part of this International Standard. Annex N is for information only.

Information technology - 8 mm wide magnetic tape cartridge for information interchange - Helical scan recording - MammothTape-2 format

Section 1 - General

1 Scope

This International Standard specifies the physical and magnetic characteristics of an 8 mm wide magnetic tape cartridge to enable physical interchange of such cartridges between drives. It also specifies the quality of the recorded signals, the recording method and the recorded format called MammothTape-2, and thereby allowing data interchange between drives by means of such magnetic tape cartridges.

Information interchange between systems also requires, at a minimum, agreement between the interchange parties upon the interchange code(s) and the specifications of the structure and labelling of the information on the interchanged cartridge.

2 Conformance

2.1 Magnetic tape cartridges

A magnetic tape cartridge shall be in conformance with this International Standard if it satisfies all mandatory requirements of this International Standard throughout the extent of the tape.

2.2 Generating drive

A drive generating a magnetic tape cartridge for interchange shall be entitled to claim conformance with this International Standard if all the recordings that it makes on a tape meet the mandatory requirements of this International Standard. A claim of conformance shall state whether or not one or more registered compression algorithm(s) are implemented within the system to process data from the host prior to allocating data to physical blocks.

2.3 Receiving drive

A system receiving a magnetic tape cartridge for interchange shall be entitled to claim conformance with the International Standard if it is able to handle any recording on this tape according to this International Standard. A receiving drive shall be able to recognise the use of a data compression algorithm and make the algorithm registration number available to the host.

3 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

IEC 60950:1999	Safety of information technology equipment.
ISO 527-3:1995	Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets.
ISO 1302:1992	Technical Drawings - Method of indicating surface texture.
ISO/IEC 11576:1994	Information technology - Procedure for the registration of algorithms for the lossless compression of data.
ISO/IEC 15200:1996	Information technology - Adaptive Lossless Data Compression algorithm (ALDC).