
British Standard

Magnetic tape sound recording and reproducing systems

Part 1. Specification for general conditions and requirements

Systèmes d'enregistrement et de lecture du son sur bandes magnétiques
Partie 1. Conditions générales et spécifications

Aufnahme- und Wiedergabesysteme für Schallaufzeichnung auf Magnetband
Teil 1. Allgemeine Bedingungen und Anforderungen

National foreword

This British Standard was prepared under the direction of the Electronic Equipment Standards Committee and is identical with IEC Publication 94-1 : 1981 'Magnetic tape sound recording and reproducing systems Part 1 : General conditions and requirements', published by the International Electrotechnical Commission (IEC).

This Part of the standard supersedes BS 1568 : Part 1 : 1970 which is withdrawn.

Terminology and conventions. The text of the international standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

Wherever reference is made in the text to 'IEC Publication 94', or to parts of IEC Publication 94, it should be read as 'BS 6288 : 1982' or as the relevant Part of BS 6288 : 1982.

Wherever page numbers are quoted they are IEC page numbers.

Cross-references

International standards	Corresponding British Standards
IEC 50 (806) : 1975	BS 4727 Glossary of electrotechnical, power, telecommunication, electronics, lighting and colour terms Part 3 : Group 10 : 1979 Recording and reproduction of sound and video terminology (Technically equivalent)
IEC 268-2 : 1971	BS 5428 Methods for specifying and measuring the characteristics of sound system equipment Part 1 : 1977 General (Technically equivalent)
IEC 268-12 : 1975	Section 5.3 : 1981 Circular connectors for broadcast and similar use (Identical)
IEC 268-14A : 1973*	Section 5.2 : 1981 Circular connectors for the interconnection of sound system components (Identical)
IEC 268-15 : 1978	Part 10 : 1979 Preferred matching values for the interconnection of sound system components (Identical)
IEC 581-4 : 1979	BS 5942 High fidelity audio equipment and systems: minimum performance requirements Part 4 : 1981 Specification for magnetic recording and reproducing equipment (Identical)
ISO 543-1974	BS 5550 Cinematography Subsection 5.1.1 : 1978 Definition, testing and marking of motion-picture safety film (Identical)
ISO/R 406-1964	BS 308 Engineering drawing practice Part 2 : 1972 Dimensioning and tolerancing of size (Technically equivalent)
ISO/R 1101/1-1969	Part 3 : 1972 Geometrical tolerancing (Technically equivalent)

The Technical Committee has reviewed the provisions of the following IEC and ISO publications to which reference is made in the text and has decided that they are acceptable for use in conjunction with this standard; related British Standards are given, where applicable.

International standards	Related British Standards
IEC 27	BS 1991 Letter symbols, signs and abbreviations Part 6 : 1975 Electrical science and engineering
IEC 117	BS 3939 Graphical symbols for electrical power, telecommunications and electronics diagrams
IEC 263 : 1975	
ISO 370 - 1975	BS 2856 : 1973 Precise conversion of inch and metric sizes on engineering drawings
ISO/R 1102-1974	
ISO/R 1660-1971	
ISO/R 1661-1971	

IEC 50 (801), to which reference is made, for information only, in 2.2 is in course of preparation. Pending publication of this international standard, it is recommended that reference be made to BS 661 : 1969 'Glossary of acoustical terms'.

IEC Publications 94-6, 94-7, 94-8 and 94-9, to which reference is made, for information only, in the tables to clause 10 and 15.1, are in course of preparation. When received, consideration will be given to their publication as British Standards as Parts 6 to 9 of this series.

Additional information. The note to 17.1.2 contains mandatory material and should therefore be regarded as being part of the main text.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

*Superseded by IEC 268-11 : 1981 for which there is as yet no equivalent British Standard.



AMD 6568

Amendment No. 1
published and effective from 21 December 1990
to BS 6288 : Part 1 : 1982

Magnetic tape sound recording and reproducing
systems

Part 1. Specification for general conditions and
requirements

NOTE. This amendment is being published to effect the
implementation of CENELEC HD 311.1 S1.

Revised text

AMD 6568
December 1990

Front cover

Underneath the title for Part 1 insert '(Implementation of CENELEC HD 311.1 S1)'.

AMD 6568
December 1990

National foreword

Delete the existing 'National foreword' and substitute the attached new 'National foreword'.

‘National foreword

This Part of BS 6288 was prepared under the direction of the Electronic Equipment Standards Policy Committee and is identical with IEC 94-1 : 1981 ‘Magnetic tape sound recording and reproducing systems Part 1 : General conditions and requirements’ published by the International Electrotechnical Commission (IEC). This standard is also in agreement with Harmonization Document HD 311.1 S1 published by the European Committee for Electrotechnical Standardization (CENELEC).

References to page numbers in the text relate to the IEC page numbers given in brackets at the bottom of each page.

BS 6288 consists of the following Parts

- Part 1 Specification for general conditions and requirements
- Part 2 Specification for calibration tapes
- Part 3 Methods of measuring the characteristics of recording and reproducing equipment for sound on magnetic tape
- Part 4 Methods for measuring the mechanical characteristics of magnetic tape for analogue recording
- Part 5 Specification for electrical magnetic tape properties
- Part 6 Specification for reel-to-reel systems
- Part 7 Specification for cassettes for commercial tape records and domestic use
- Part 8 Specification for eight-track magnetic tape cartridge for commercial tape records and domestic use
- Part 9 Specification for magnetic tape cartridge for professional use
- Part 10 Specification for time and address codes
- Part 11 Guide to an address code for compact cassettes

Cross-references

International standard	Corresponding British Standard
	BS 4727 Glossary of electrotechnical, power, telecommunication, electronics, lighting and colour terms
	Part 3 : Terms particular to telecommunications and electronics
C 50 (801) : 1984	Group 08 : 1985 Acoustics and electroacoustics terminology (Technically equivalent)
C 50 (806) : 1975	Group 10 : 1979 Recording and reproduction of sound and video terminology (Technically equivalent)
C 94-2 : 1975	BS 6288 Magnetic tape sound recording and reproducing systems Part 2 : 1982 Specification for calibration tapes (Identical)
C 94-6 : 1985	Part 6 : 1987 Specification for reel-to-reel systems (Identical)
C 94-7 : 1986	Part 7 : 1987 Specification for cassettes for commercial tape records and domestic use (Identical)
C 94-8 : 1987	Part 8 : 1989 Specification for eight-track magnetic tape cartridge for commercial tape records and domestic use (Identical)
IEC 94-9 : 1988	Part 9 : 1989 Specification for magnetic tape cartridge for professional use (Identical)
IEC 263 : 1982	BS 6397 : 1983 Specification for scales and sizes for plotting frequency characteristics and polar diagrams (Identical)
IEC 268-2 : 1987	BS 6840 Sound system equipment Part 2 : 1988 Glossary of general terms and calculation methods (Identical)
IEC 268-11 : 1987*	Part 11 : 1988 Specification for application of connectors for the interconnection of sound system components (Identical)
IEC 268-12 : 1987	Part 12 : 1987 Specification for applications of connectors for broadcast and similar use (Identical)
IEC 268-15 : 1987	Part 15 : 1988 Specification for matching values for the interconnection of sound system components (Identical)

*IEC 268-11 : 1987 superseded IEC 268-14A : 1973 which has been withdrawn.

IEC 581-4 : 1979	BS 5942 High fidelity audio equipment and systems; minimum performance requirements Part 4 : 1981 Specification for magnetic recording and reproducing equipment (Identical)
IEC 617†	BS 3939 Guide for graphical symbols for electrical power, telecommunications and electronics diagrams (Most Parts are identical with IEC 617 series of Parts)
ISO 406 : 1987	BS 308 Engineering drawing practice Part 2 : 1985 Recommendations for dimensioning and tolerancing of size (Technically equivalent)
ISO 543 : 1974	BS 5550 Cinematography Subsection 5.1.1 : 1978 Definition, testing and marking of motion-picture safety film (Identical)

The Technical Committee has reviewed the provisions of IEC 27, ISO 370, ISO 1101 and ISO 1660 to which reference is made in the text and has decided that they are acceptable for use in conjunction with this standard.

The following related British Standards also exist.

IEC 27	BS 5775 Specification for quantities, units and symbols (Parts are identical with ISO 31 series of Parts)
ISO 370 : 1975	BS 2856 : 1973 Precise conversion of inch and metric sizes on engineering drawings BS 308 Engineering drawing practice
ISO 1101 : 1983	Part 3 : 1990 Recommendations for geometrical tolerancing
ISO 1660 : 1971	Part 2 : 1985 Recommendations for dimensioning and tolerancing of size

Additional information. The note to 17.1.2 contains a requirement and should therefore be regarded as being part of the main text.

ISO/R1661 : 1971 referred to in the text in clause 4 has been withdrawn.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

†IEC 617 superseded IEC 117 which has been withdrawn.

CONTENTS

	Page
National foreword	Inside front cover
Cooperating organizations	Back cover

SECTION ONE - GENERAL

Clause

1. Scope	2
2. Definitions	2
3. Units and symbols	2
4. Drawing office practice	2
5. Scales for graphical presentation of data	3
6. Mechanical and electrical matching requirements	3
7. High fidelity equipment and systems	4
8. Flammability	4

SECTION TWO - MECHANICAL REQUIREMENTS

9. Tape dimensions	4
10. Tape speed	5
11. Direction of tape winding	5
12. Mechanical requirements and dimensions of recording systems according to tape carrier	6
13. Designation of magnetic tracks	6
14. Allocation and dimensions of magnetic tracks according to tape carrier	6

SECTION THREE - ELECTRICAL REQUIREMENTS

15. Amplitude/frequency response of the recorded short-circuit flux	6
16. Reproducing electrical amplitude/frequency response	7
17. Tolerances on recording and reproducing system characteristics	7

SECTION FOUR - TAPE AND PROGRAMME IDENTIFICATION

18. Identification of tape sides	8
19. Programme identification	8
20. Colour of leader tapes, reel-to-reel systems	10

APPENDIX A - Explanation of the drawing system used in the different parts of IEC Publication 94	14
--	----