

Australian Standard 2169—1978

**INFORMATION PROCESSING
RECORDED MAGNETIC
TAPES FOR INTERCHANGE
INSTRUMENTATION
APPLICATIONS—
STANDARD TAPE SPEEDS
AND TRACK
CONFIGURATIONS**



STANDARDS ASSOCIATION OF AUSTRALIA

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Australian Bankers Association
Australian Bureau of Statistics
Australian Computer Users Association
Australian Public Service Board
CSIRO, Division of Computing Research
Department of Defence
Life Offices Association for Australasia
Manufacturers of data processing equipment
National Library of Australia
Office Equipment Industry Association of Australia
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To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

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AUSTRALIAN STANDARD

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AS 2169—1978

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PREFACE

This standard was prepared by the Association's Committee on Computers and Information Processing.

The standard specifies standard tape speeds and track configurations for 6.25 mm, 12.7 mm and 25.4 mm wide magnetic tape used in instrumentation applications. Requirements are also specified for record and reproduce heads.

An appendix contains definitions of the terms referred to in the standard.

The standard is technically identical with ISO 3413, Recorded Magnetic Tapes for Interchange Instrumentation Applications—Standard Tape Speeds and Track Configurations.

This standard makes reference to the following Australian standard:

AS 1072 Unrecorded Magnetic Tape for Instrumentation Applications.

The following Australian standards are related:

AS 1073 Dimensions of Hubs and Reels for Magnetic Tape for Instrumentation Interchange

AS 2170 Analogue Modes of Recording on Magnetic Tape for Instrumentation Applications.

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STANDARDS ASSOCIATION OF AUSTRALIA

**Australian Standard Specification
for
RECORDED MAGNETIC TAPES FOR INTERCHANGE
INSTRUMENTATION APPLICATIONS—STANDARD
TAPE SPEEDS AND TRACK CONFIGURATIONS**

1 SCOPE. This standard specifies standard tape speeds and track configurations to allow maximum interchange of instrumentation magnetic tape records.

NOTE: See Appendix A for definitions of terms and symbols.

2 TAPE SPEEDS. The standard tape speeds for instrumentation magnetic tape recorders shall be as follows:

2.38 cm/s, 4.76 cm/s, 9.52 cm/s, 19.05 cm/s, 38.1 cm/s, 76.2 cm/s, 152.4 cm/s, 304.8 cm/s.

3 TAPE WIDTHS. Standard tape widths are specified in the following table (which is an excerpt from AS 1072, Part 1*):

mm	
6.3	0 -0.05
12.70	0 -0.10
25.40	0 -0.10
50.80	0 -0.10

4 TRACK GEOMETRY. DIMENSIONS—RECORDED TAPE FORMAT (See Fig. 1).

4.1 Four Tracks in Line on 6.3 mm Wide Tape.

Track width (W) 0.64 ± 0.05 mm

Track spacing (D) 1.78 mm

Track location (reference edge to track 1 centreline (G)) 0.43 ± 0.05 mm

Track spacing tolerance (ΔH_n) ± 0.05 mm

Track number (H_n):

H_1 0

H_2 1.78 mm

H_3 3.56 mm

H_4 5.34 mm

The simultaneous applications of the tolerances quoted shall not result in the centreline of track 4 being closer to the edge of the tape than 0.35 mm.

*AS 1072, Unrecorded Magnetic Tapes for Instrumentation Applications, Part 1—General and Dimensional Requirements.