

Australian Standard<sup>®</sup>

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**INFORMATION PROCESSING**

**SELF-LOADING CARTRIDGES  
FOR 12.7 mm WIDE MAGNETIC  
TAPE**

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This Australian standard was prepared by Committee IS/1, Information Processing Systems. It was approved on behalf of the Council of the Standards Association of Australia on 5 May 1983 and published on 4 July 1983.

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*This standard was issued in draft form for comment as DR 80157.*

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## PREFACE

This standard was prepared by the Association's Committee on Information Processing Systems. It is substantially identical with and has been reproduced from International Standard ISO 6098, drawn up by ISO/TC 97, Information Processing Systems.

The purpose of this standard is to specify mechanical and functional interchangeability requirements for self-loading cartridges, to be used with reels of 12.7 mm wide magnetic tape specified in AS 1011. Dimensional and functional requirements for ensuring interchangeability are specified, and in addition, other requirements are given which are not mandatory, and not essential for interchangeability.

To assist Australian usage, additions to the text of the ISO standard have been made as follows:

- (a) Clause 7.3.1 introduces requirements for a second optional hook.
- (b) Figs 1 to 4 modified to include the second hook.

For the purpose of this Australian standard, the text of the ISO standard given herein should be modified as follows:

- (a) *Terminology*. The words 'Australian standard' should replace the words 'International Standard' wherever they appear.
- (b) *Decimal comma*: The decimal point should replace the decimal comma wherever it appears.
- (c) *Cross-references*. The references to International Standards should be replaced by references to Australian standards as follows:

<i>Reference to International Standard</i>	<i>Appropriate Australian Standard</i>
ISO 1864, Information processing—Unrecorded 12,7 mm (0.5 in) wide magnetic tape for information interchange—32 ftpmm (800 ftpi) NRZI. 126 ftpmm (3200 ftpi) phase encoded and 356 ftpmm (9042 ftpi), NRZI.	AS 1011, Unrecorded magnetic tape for information interchange—8 and 32 rpmm NRZI and 63 rpmm phase encoded

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## STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard

**Information processing — Self-loading cartridges for  
12,7 mm (0.5 in) wide magnetic tape****1 Scope and field of application**

This International Standard specifies mechanical and functional interchangeability requirements for self-loading cartridges, to be used with reels of 12,7 mm (0.5 in) wide magnetic tape specified in ISO 1864.

Minimum dimensional and functional requirements of the cartridge are given, in order to ensure interchangeability of cartridges between tape drives designed for self-loading operation. Some dimensions and features, other than those strictly required for interchangeability, are also given but have to be considered as recommended or optional.

The numeric values in the SI and Imperial measurement systems in this International Standard may have been rounded 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 reconverted. The original design was completed using the Imperial measurement system.

**2 Reference**

ISO 1864, *Information processing — Unrecorded 12,7 mm (0.5 in) wide magnetic tape for information interchange — 32 ftpmm (800 ftpi) NRZ1, 126 ftpmm (3 200 ftpi) phase encoded and 356 ftpmm (9 042 ftpi), NRZ1.*<sup>1)</sup>

**3 Environment****3.1 Testing environment**

Tests and measurements made to check the requirements of this International Standard shall be carried out under following conditions:

temperature:  $23 \pm 2^\circ\text{C}$  ( $73 \pm 5^\circ\text{F}$ )

relative humidity: 40 to 60 %

conditioning time before testing: 24 h

**3.2 Operating environment**

temperature: 16 to  $32^\circ\text{C}$  (60 to  $90^\circ\text{F}$ )

relative humidity: 20 to 80 %

wet bulb temperature: not greater than  $25^\circ\text{C}$  ( $78^\circ\text{F}$ )

**3.3 Storage environment****3.3.1 Cartridges loaded with unrecorded tape**

temperature: 5 to  $48^\circ\text{C}$  (40 to  $120^\circ\text{F}$ )

relative humidity: 20 to 80 %

wet bulb temperature: not greater than  $26^\circ\text{C}$  ( $80^\circ\text{F}$ )

**3.3.2 Cartridges loaded with recorded tape**

temperature: 5 to  $32^\circ\text{C}$  (40 to  $90^\circ\text{F}$ )

relative humidity: 20 to 80 %

wet bulb temperature: not greater than  $25^\circ\text{C}$  ( $78^\circ\text{F}$ )

**3.3.3 Cartridges without tape**

Temperature and relative humidity of storage environment for cartridges without tape should be according to the recommendations of the manufacturers of the cartridge.

**4 Description and operation****4.1 General**

The self-loading cartridge is a collar which can be attached to the rim of a reel of magnetic tape and protect the tape against dust and contamination during storage and handling.

1) At present at the stage of draft. (Revision of ISO 1864-1975.)