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# INTERNATIONAL STANDARD



# 962

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## Information processing — Implementation of the 7-bit coded character set and its 7-bit and 8-bit extensions on 9-track 12,7 mm (0.5 in) magnetic tape

*Traitement de l'information — Matérialisation du jeu de caractères codés à 7 éléments et de ses extensions à 7 et 8 éléments sur bande magnétique à 9 pistes de 12,7 mm (0,5 in) de large*

First edition — 1974-11-01

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UDC 683.1

Ref. No. ISO 962-1974 (E)

**Descriptors** : data processing, magnetic tapes, character sets, coding.

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

International Standard ISO 962 was drawn up by Technical Committee ISO/TC 97, *Computers and information processing*, and circulated to the Member Bodies in September 1973.

It has been approved by the Member Bodies of the following countries:

Australia	Ireland	Spain
Belgium	Italy	Sweden
Brazil	Japan	Switzerland
Bulgaria	Mexico	Thailand
Canada	Netherlands	Turkey
Czechoslovakia	New Zealand	United Kingdom
Denmark	Poland	U.S.A.
France	Portugal	U.S.S.R.
Germany	Romania	Yugoslavia
Hungary	South Africa, Rep. of	

No Member Body expressed disapproval of the document.

This International Standard cancels and replaces ISO Recommendation R 962-1969, of which it constitutes a technical revision.

# Information processing — Implementation of the 7-bit coded character set and its 7-bit and 8-bit extensions on 9-track 12,7 mm (0.5 in) magnetic tape

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the implementation of the 7-bit coded character set and its 7-bit and 8-bit extensions on 9-track 12,7 mm (0.5 in) magnetic tape.

## 2 REFERENCES

**2.1** This International Standard refers to the 7-bit coded character set which is the subject of ISO 646, *7-bit coded character set for information processing interchange*, and ISO 2022, *Code extension techniques for use with the ISO 7-bit coded character set*.

**2.2** The magnetic tape on which this character set is implemented is specified in the following ISO publications:

ISO/R 1862, *9-track 8 rpm (200 rpi) magnetic tape for information interchange*;

ISO/R 1863, *9-track 32 rpm (800 rpi) magnetic tape for information interchange*;

ISO ..., *9-track 63 rpm (1 600 rpi) phase-encoded magnetic tape for information interchange*.<sup>1)</sup>

**2.3** The magnetic labelling is the subject of ISO/R 1001, *Magnetic tape labelling and file structure for information interchange*.

## 3 DEFINITIONS

(The figure on page 3 illustrates the following definitions.)

**3.1 magnetic tape**: A tape which will accept and retain

magnetic signals intended for input, output and storage purposes on computers and associated equipment.<sup>2)</sup>

**3.2 track**: A longitudinal area on the tape along which a series of magnetic signals may be recorded.<sup>2)</sup>

**3.3 reference edge**: The edge farthest from an observer, or nearest the top of a page, when a tape is lying flat with the oxide side uppermost and the direction of movement for recording from left to right.<sup>2)</sup> (See figure.)

**3.4 row**: A transverse area on the tape along which magnetic signals of tracks are recorded.

**3.5 block**: A series of rows, limited by suitable marks, to be recorded and read as a group.

**3.6 gap**: A space left unused between blocks.

**3.7 8 position environment**: A set of eight positions, each available to record one bit.

## 4 SPECIFICATIONS

### 4.1 Track identification

There shall be 9 tracks on the tape and they shall be numbered consecutively from 1 to 9, with track 1 adjacent to the reference edge (see figure).

### 4.2 Data content

Each row contains one character only, with its parity check bit.

1) At present at the stage of draft proposal.

2) Definitions in accordance with ISO/R 1864, *Unrecorded magnetic tape for information interchange — 8 and 32 rpm (200 and 800 rpi), NRZI, and 63 rpm (1 600 rpi), phase-encoded*.