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# International Standard



# 2967

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

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## ● Cinematography — Magnetic stripes for sound records on 35 mm motion-picture film perforated 8 mm Type S-5R (1-3-5-7-0) — Positions and width dimensions

*Pistes magnétiques pour l'enregistrement du son sur film cinématographique 35 mm perforé 8 mm type S-5R (1-3-5-7-0) — Positions et dimensions en largeur*

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**Descriptors** : cinematography, motion picture film, motion picture film 8 mm, motion picture film 35 mm, magnetic recording, sound recording, position (location), dimensions.

## 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 2967 was developed by Technical Committee ISO/TC 36, *Cinematography*.

This second edition was submitted directly to the ISO Council, in accordance with clause 5.10.1 of part 1 of the Directives for the technical work of ISO. It cancels and replaces the first edition (i.e. ISO 2967-1975), which had been approved by the member bodies of the following countries:

Australia	Mexico	Sweden
Belgium	Netherlands	Switzerland
Canada	New Zealand	Thailand
Czechoslovakia	Poland	United Kingdom
Germany, F.R.	Romania	USA
India	South Africa, Rep. of	
Italy	Spain	

The member bodies of the following countries expressed disapproval of the document on technical grounds:

France  
USSR

# Cinematography — Magnetic stripes for sound records on 35 mm motion-picture film perforated 8 mm Type S-5R (1-3-5-7-0) — Positions and width dimensions

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## 1 Scope and field of application

This International Standard specifies the dimensional features of the magnetic stripes applied to 35 mm motion-picture raw stock film, perforated 8 mm Type S-5R with perforations at locations 1-3-5-7 and 0 for subsequent slitting to 8 mm Type S processed motion-picture film complying with ISO 1700.

## 2 References

ISO 1700, *Cinematography — 8 mm Type S motion-picture raw stock film — Cutting and perforating dimensions.*

ISO 3027, *Cinematography — Magnetic stripes and recording head gaps for sound record on 8 mm Type S motion-picture prints — Positions and width dimensions.*

ISO 3774, *Cinematography — 35 mm motion-picture film perforated 8 mm Type S (1-3-5-7-0) and (1-0) — Cutting and perforating dimensions.*

## 3 Film stock

**3.1** The dimensions of the film stock shall conform to the specifications given in ISO 3774.

**3.2** The dimensional features of the processed film after slitting shall conform to the requirements specified in ISO 1700.

## 4 Location and width of magnetic stripes

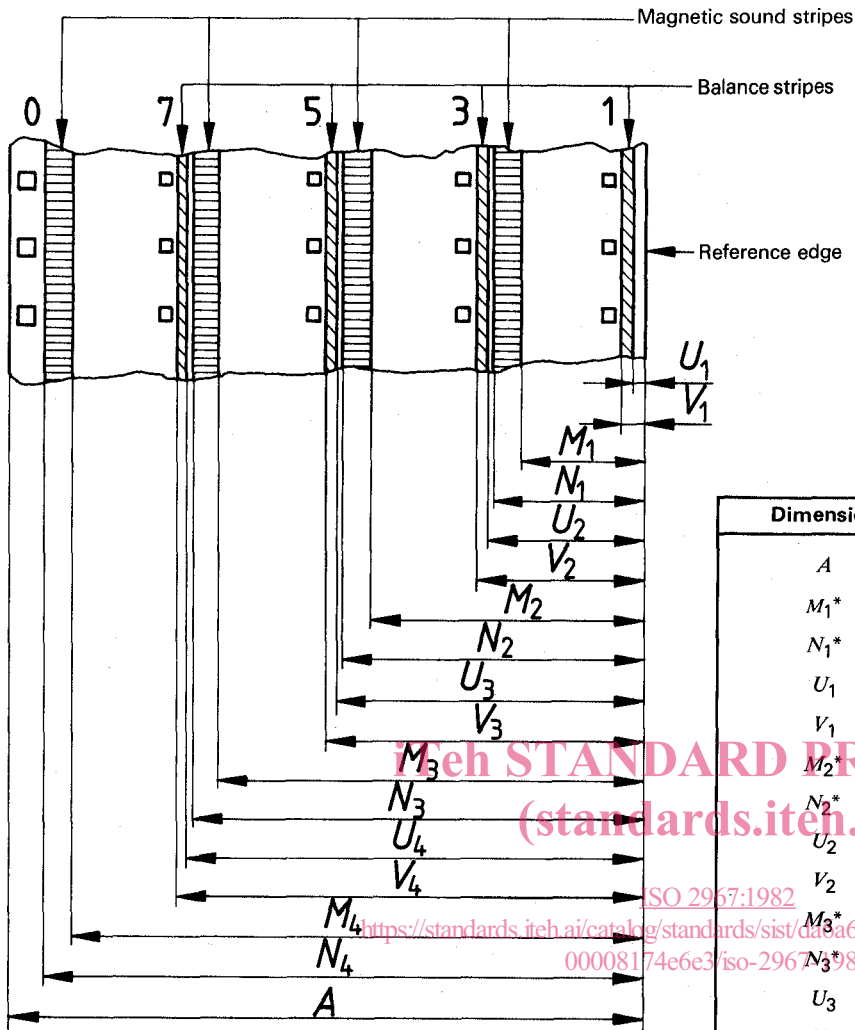
**4.1** The location and width of the magnetic sound record stripes and balance stripes shall be as shown in the figure and given in the table.

**4.2** If the magnetic stripe increases the thickness of the film by more than 0,005 mm (0.000 2 in), a balance stripe shall be applied to effectively equalize the thickness at the two edges of the slit 8 mm film. The balance stripe should essentially have the same thickness and shall have the same composition as the magnetic sound record stripe.

**4.3** The thickness of the magnetic stripe and of the balance stripe shall not exceed 0,020 mm (0.000 8 in).

**4.4** The stripes shall be applied to the side of the film which, when slit, will be towards the light source when used in a projection system arranged for direct front projection onto a reflection type screen.

**4.5** The location of the magnetic stripe on the processed film after slitting shall conform to that specified in ISO 3027.



Figure

Table

Dimension	mm	in
A	34,975 ± 0,025	1.377 ± 0.001
M <sub>1</sub> *	8,00 ± 0,05	0.315 ± 0.002
N <sub>1</sub> *	8,68 ± 0,05	0.342 ± 0.002
U <sub>1</sub>	0,84 ± 0,08	0.033 ± 0.003
V <sub>1</sub>	1,14 ± 0,08	0.045 ± 0.003
M <sub>2</sub> *	15,98 ± 0,05	0.629 ± 0.002
N <sub>2</sub> *	16,66 ± 0,05	0.656 ± 0.002
U <sub>2</sub>	8,81 ± 0,08	0.347 ± 0.003
V <sub>2</sub>	9,12 ± 0,08	0.359 ± 0.003
M <sub>3</sub> *	23,96 ± 0,05	0.943 ± 0.002
N <sub>3</sub> *	24,64 ± 0,05	0.970 ± 0.002
U <sub>3</sub>	16,79 ± 0,08	0.661 ± 0.003
V <sub>3</sub>	17,10 ± 0,08	0.673 ± 0.003
M <sub>4</sub> *	31,94 ± 0,05	1.257 ± 0.002
N <sub>4</sub> *	32,62 ± 0,05	1.284 ± 0.002
U <sub>4</sub>	24,77 ± 0,08	0.975 ± 0.003
V <sub>4</sub>	25,07 ± 0,08	0.987 ± 0.003

\* Notwithstanding the tolerances on M<sub>1</sub>, N<sub>1</sub>, M<sub>2</sub>, N<sub>2</sub>, M<sub>3</sub>, N<sub>3</sub>, M<sub>4</sub> and N<sub>4</sub>, the difference between each pair of correlated N and M dimensions shall be not less than 0,635 mm (0.025 in) minimum.

NOTES

- 1 The tolerances for the recording stripes and balance stripes permit the use of a single wide stripe or two separate stripes where they are adjacent. If two stripes are used, the amount of separation between the stripes should be sufficient to permit slitting within the requirements of this International Standard without obtaining undesirable feather edges of magnetic material. The actual separation required should be determined by laboratory practice. In the event that the wide stripe mentioned above is used, then if desired, U<sub>1</sub> may be decreased and N<sub>4</sub> may be increased so as to permit slitting within the magnetic coating.
- 2 When transcribing dimensions from the opposite edge, dimension A equals 34,97 mm (1.377 in) nominal can be used.
- 3 In some instances, the metric dimensions in the table are not exact conversions of the inch dimensions. The differences, however, are small and films made to either system of dimensions will, for all practical purposes, be interchangeable. (The stripes are intended to be of equal width.)