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for Motion-Picture Film (70-mm) — Six-Track Audio Release Prints — Magnetic Striping



Page 1 of 3 pages

1 Scope

This standard specifies the location and dimensions of the magnetic recording stripes on 70-mm motion-picture film used for six-track magnetic audio release prints having a flat picture image with a maximum projection aperture of 1.914 in × 0.870 in (48.62 mm × 22.10 mm).

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.

SMPTE 119-1999, Motion-Picture Film (70-mm) — Perforated 65-mm, KS-1870

3 Dimensions

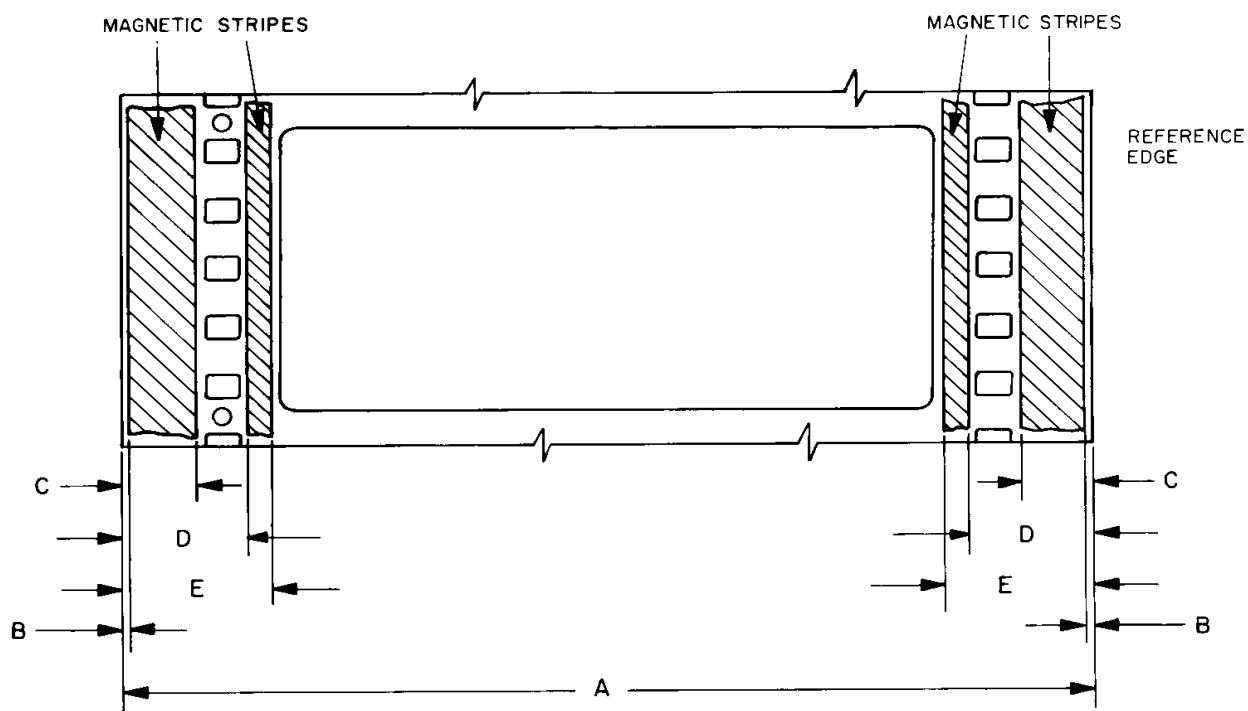
3.1 The location and dimensions of the recording stripes shall be as specified in figure 1 and table 1.

3.2 The magnetic stripes shall be on the side of the film which is away from the light source when used on a projector arranged for direct front projection on a reflection-type screen.

4 Film stock

The film stock shall be safety type, cut and perforated in accordance with SMPTE 119.

NOTE – The reference edge is opposite the side of the film having the round hole every fifth perforation.



NOTE – Photographic emulsion up with magnetic stripes on reverse side.

Figure 1 – Dimensions

Table 1 – Specifications

Dimensions	Inches		Millimeters	
A (see A.1 and A.2)	2.754	ref	69.95	ref
B	0.008	± 0.002	0.20	± 0.05
C	0.208	± 0.002	5.28	± 0.05
D	0.330	$+ 0.002$ $- 0.000$	8.38	$+ 0.05$ $- 0.00$
E (see A.4)	0.415	± 0.002	10.54	± 0.05

Annex A (informative)

Additional data

A.1 The dimensions specified in this standard are predicated on the use of unshrunk film. It is recognized, however, that some shrinkage may occur when striping a processed print. Specific measurements should take into account the overall width of the film as specified by dimension A in SMPTE 119.

A.2 In practice, each pair of stripes is referenced to the closest edge in order to account for film shrinkage at the time of striping.

A.3 Prints conforming to this standard are prepared in accordance with SMPTE 152 and SMPTE 185.

A.4 The distance between the inside stripes should not be less than 1.912 in (48.56 mm) to prevent intrusion into the projectable image area.

A.5 In no case should the stripes be allowed to intrude into the perforation area.

Annex B (informative)

Bibliography

SMPTE 152-2003, Motion-Picture Film (70-mm) — Projectable Image Area

SMPTE 185-2003, Motion-Picture Film (70-mm) — Six Magnetic Records on Release Prints — Position, Dimensions, Reproducing Speed and Identity