



The attached SMPTE Engineering Document has been declared “Stable” by the controlling Technology Committee.

The SMPTE Operations Manual for Standards states:

A document should be stabilized if it is believed to be substantially correct, does not contain harmful or misleading recommendations, may still be relevant to equipment or practices in use, is stable, but does not represent current technology, and need not be subject to future reviews.

A Stable document shall still be made available and offered for sale by the Society, but it shall be prefaced by a cover page explaining its current status.

At any time, a Technology Committee may revise, amend, or otherwise initiate a new Project on a Stable document.

A Stable document is “In Force”, and not deprecated or withdrawn.

*** * * * ***

Note:

SMPTE “Stable” documents were previously described as “Archived” and the attached document may be marked as “Archived”. The status of a SMPTE document described as “Archived” is exactly as described above for a “Stable” document.

Stable documents may not adhere to the latest style and format of SMPTE documents, or to current usage of normative language. Suitable care should be taken in interpretation.

SMPTE STANDARD

SMPTE 301-2005

 Revision of
SMPTE 301-1999

for Motion-Picture Film — Theater Projection Leader, Trailer and Cue Marks



Page 1 of 9 pages

1 Scope

This standard specifies the make-up or assembly of leaders and cue marks for 70-, 35-, and 16-mm motion-picture release prints for use in motion-picture theaters and screening rooms.

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 listed below.

SMPTE RP 65-2000, Motion-Picture Enlargement/Reduction Ratios

3 Reduction ratio

The reduction ratio in the production of the head and foot leaders from 35-mm motion-picture film to 16-mm motion-picture film shall be in accordance with SMPTE RP 65.

4 General specifications

4.1 Orientation and dimensions of letters and numerals in this standard are with respect to 35-mm motion-picture film and are modified proportionally in accordance with SMPTE RP 65 for 70-mm and 16-mm prints .

4.2 Information appearing in the leader which is printed lengthwise (in the direction of film travel) shall read from left to right when viewed from the projection lens towards the projector light source with the head end of the film at the right. Information appearing in the leader which is printed upright shall read normally when the reel is uppermost and the head of the film hangs down ready for threading (see figures 1 and 5 for orientation of information).

4.3 All frames in the head leader and trailer leader identification sections (see 5.3 and 7.3) and in frames 1 through 171 of the head leader synchronizing section (see 5.4) shall be masked to the nominal anamorphic projection aperture (0.825 in [20.96 mm] × 0.690 in [17.53 mm]) with clear framelines nominally the height of anamorphic projection aperture framelines (0.061 in [1.55 mm]). Frames 172 through 218 of the head leader synchronizing section and frames 1 through 87 of the trailer leader runout section shall be masked to the nominal anamorphic camera aperture (0.864 in [21.95 mm] × 0.732 in [18.59 mm]) with clear framelines nominally the height of anamorphic camera aperture framelines (0.016 in [0.41 mm]).

4.4 Since many types of film may be used for leaders, exact neutral densities have not been specified. For the purpose of this standard, the following approximate neutral densities are referred to:

- clear (neutral density less than 0.35);
- black (neutral density greater than 1.95).

5 Head leader (see figure 1)

5.1 Protective section

The protective section of the leader shall consist of a minimum of 8 linear feet (2.44 m) of transparent or raw stock. When the protective leader has been reduced to a length of 6 linear feet (1.83 m), it shall be restored to its original length. Logos, trademarks, part titles, or other extraneous materials, if absolutely necessary, should be placed in this section.

5.2 Splicing frame

A single frame with the upright words "SPICE HERE" and an arrow pointing to the frameline between this frame and frame 1 of the identification section to indicate where the protective section joins the identification section. The clear letters should be at least 1/8 in (3.2 mm) high on a black background.

5.3 Identification section

The identification section of the leader shall be 43 frames in length. The identification section of the head leader, when viewed as specified in 4.2, shall be made up as follows:

Frame 1 – Black.

Frame 2 – The word "BEG" in clear letters 7/16 in (11.1 mm) high printed upright in the center of the frame, on black background.

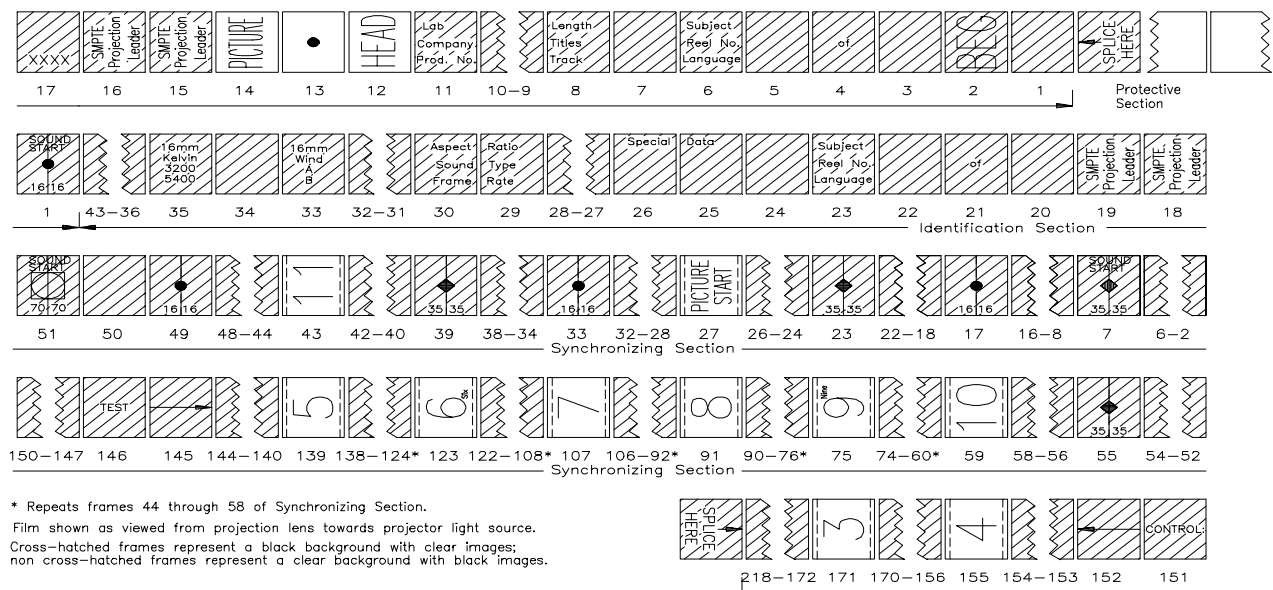


Figure 1 – Head leader