

Proposed American Standard Specifications for Color Video Magnetic Tape Leader

C98.9

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1. Scope

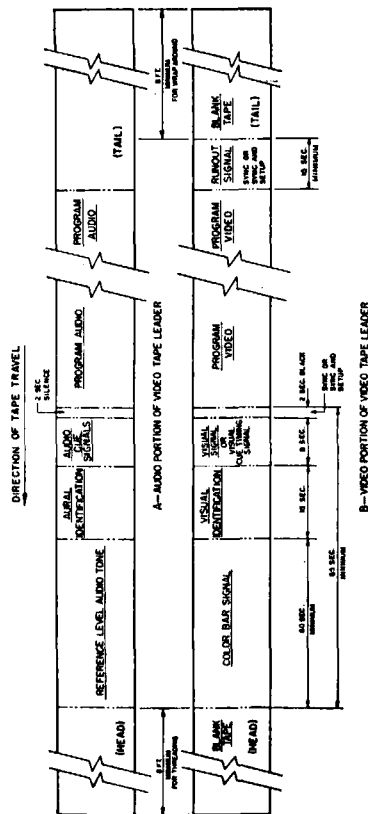
1.1 This standard specifies the minimum leader requirements for color video tape recording operation to permit adjustment of equipment for optimum performance during reproduction prior to the start of recorded program material.

1.2 The standard also specifies the audio and video information that precedes and follows the recorded program material (for purposes of ensuring uniformity of reproduction), and provides the necessary identification cue up and run out information, and the minimum lengths of tape required to ensure proper threading for color video tape recordings.

2. Color Bar Signal

2.1 At the head end of the tape, at least 60 seconds of color bar pattern, as defined by EIA Standard RS-189, Encoded Color Bar Signals, shall be recorded with maximum luminance at 77 IRE units corresponding to 75 percent chroma level, including a reference white bar and reference black bar.

The recording shall be made under the same conditions of equipment adjustment as used for recording the video program material. For original recording, the color bar signal shall originate in and be fed through the same studio and equipment used for the program.



NOTE: The figures of picture and sound sequences are shown related on a time basis. There is separation of the picture and sound records on the recorded tape, as defined in American Standard Specifications of the Audio Records for 2-In. Video Magnetic Tape Recordings, C98.3-1963.

2.2 Simultaneously with the color bar signal, a reference level audio tone of $400 \text{ Hz} \pm 5 \text{ percent}$ shall be recorded at the same level and under the same conditions of equipment adjustment used for recording the audio portion of the program material.

2.3 The color bar signal shall be preceded by 8 ft minimum of blank tape for threading purposes.

3. Identification Information

3.1 Visual identification information shall be recorded for at least 15 seconds following the color bar signal specified in Section 2. The identification shall contain:

- (1) title
- (2) subject
- (3) production number
- (4) take number
- (5) name of recording studio
- (6) date of recording
- (7) broadcast date (if known)

3.2 Simultaneously, an aural identification of the information specified in Section 3.1 shall be recorded under the same conditions as defined in Section 2.2.

4. Cue Timing Signals

4.1 Audio cue signals, as described below, shall be recorded on the audio program track following the aural identification signals specified in Section 3.

4.1.1 The audio cue tone signals shall consist of a series of $400 \text{ Hz} \pm 5 \text{ percent}$ bursts, each of $\frac{1}{2}$ -second duration, occurring at one-second intervals over the range from ten or more seconds ahead of the program material to two seconds ahead. The recording level shall be as defined in Section 2.2.

4.1.2 In addition, a steady component of the cue tone shall be recorded approximately 20 dB below the level used in Section 4.1.1 above, starting with the first tone burst and ending with the last one, to leave a two-second silent interval before the start of program material.

4.2 A visual signal shall be recorded during the entire period of the steady component of the above-described audio tone signals. Sync (or sync, color burst, and setup) only shall be recorded during the two-second interval from the end of the tone bursts to the start of program. The recording level shall be as described in Section 2.1.

If a visual cue timing signal is used, it shall be coincident with and identify the tone burst in Section 4.1.1.

5. Continuity of Recorded Signals

Continuity of recorded signals, beginning with the color bar signal, shall not be interrupted. This continuity of sync, color burst, and control track shall be achieved by continuous recording or by equivalent splicing, provided that the requirements of Section 2.1 are fulfilled.

6. Run-Out Signal

6.1 There shall be at least 10 seconds of sync (or sync, color burst, and setup) recorded immediately following the conclusion of program material.

6.2 The run-out signal shall be followed by 8 ft minimum of blank tape for wrap around purposes.