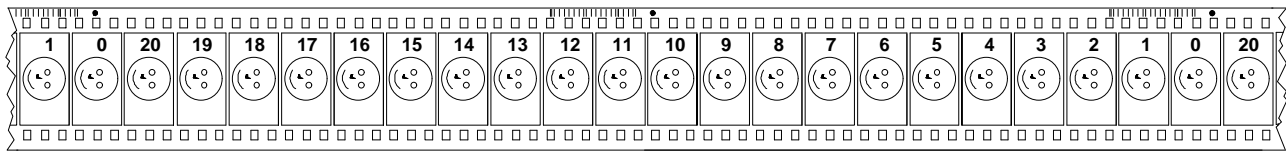
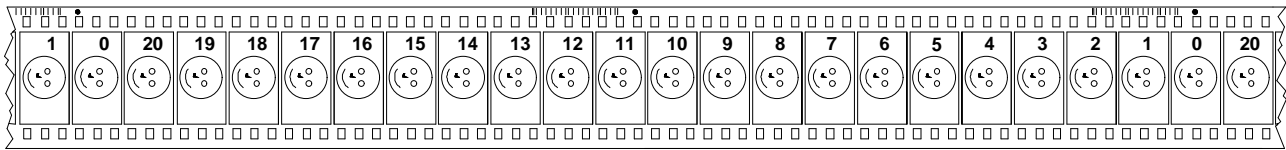


**3 PERF FRAME NUMBERING**

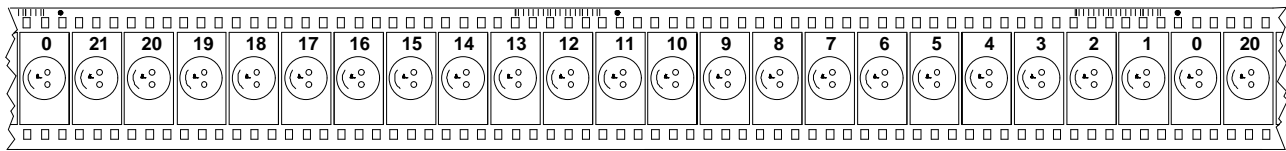
On 35 mm film, the KeyKode numbers change once per foot, or every 64 perforations. There is also a mid-foot KeyKode number which is indicated by a smaller human readable number and a perf offset of 32. In the 4 perf format there are 4 perfs per frame, giving 16 frames per foot or KeyKode number. In the 3 perf format there are 3 perfs per frame giving 21 1/3 frames per KeyKode number. Thus it takes 3 feet to give a whole number of frames. Evertz and several other manufacturers have agreed on a standard way of numbering the irregular 3 perf footage. The first two feet of the sequence have the Zero frame KeyKode reference dot at the head and center perfs of the frame respectively and each contain 21 frames. The third frame of the sequence has the reference dot at the tail perf, and contains 22 frames. The drawing below illustrates the numbering sequence used for 3 perf.



**FOOT TYPE 1**



**FOOT TYPE 2**



**FOOT TYPE 3**

On the Evertz 4025 Film Footage Encoder, the KeyKode VCG window and the front panel KeyKode display have a special indicator between the prefix and the footage that indicates which foot of the 3 foot sequence the KeyKode number belongs to. This is important because two feet have 21 frames and the third foot has 22 frames. On the VCG, the indicator is a horizontal bar which is at the top for the first foot, in the center for the second foot and at the bottom for the third (long) foot. On the front panel the indicator is an ↑ for the first foot, a horizontal bar in the center for the second foot and a horizontal bar at the bottom for the third (long). The example below shows the three indicators for both the VCG and front panel displays.

Description	Character Inserter		Front Panel	
	Indicator	Example	Indicator	Example
Foot 1 (21 frames)	Top Bar	KJ123456~7890+00	↑	KJ123456↑7890+00
Foot 2 (21 frames)	Middle Bar	KJ123456-7891+00	Middle bar	KJ123456-7891+00
Foot 3 (22 frames)	Bottom Bar	KJ123456_7892+00	Bottom Bar	KJ123456_7892+00