
INTERNATIONAL STANDARD 3024

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

Cinematography — Motion-picture camera cartridge, 8 mm Type S, Model I — Camera run length, perforation cut-out and end-of-run notch in film — Specifications

Cinématographie — Chargeurs, modèle I, pour caméras 8 mm type S — Longueur de film entraînée, encoche d'élimination de perforations et encoche de fin de prise de vues — Spécifications

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Descriptors : cinematography, motion-picture film, length, packs, specifications.

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 3024 was drawn up by Technical Committee ISO/TC 36, *Cinematography*, and circulated to the Member Bodies in April 1973.

It has been approved by the Member Bodies of the following countries:

Australia	Germany	Sweden
Austria	India	Switzerland
Belgium	Italy	Thailand
Bulgaria	Japan	United Kingdom
Canada	Netherlands	U.S.A.
Czechoslovakia	Romania	U.S.S.R.
France	South Africa, Rep. of	

No Member Body expressed disapproval of the document.

Cinematography – Motion-picture camera cartridge, 8 mm Type S, Model I – Camera run length, perforation cut-out and end-of-run notch in film – Specifications

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the camera run length of film supplied in an 8 mm Type S, Model I film camera cartridge of 15 m (50 ft) nominal capacity, and the length of film returned to the customer. Its purpose is to provide a uniform basis for the operation of film metering mechanisms in cameras.

This International Standard also specifies the dimensions and location of a perforation cut-out notch and a notch in the unperforated side of 8 mm Type S camera films which may be used to automatically indicate the end-of-run.

2 REFERENCES

ISO 1780, *Cinematography – Motion-picture camera cartridge, 8 mm Type S, Model I – Aperture opening, pressure pad and film load – Positions and dimensions.*¹⁾

ISO 1787, *Cinematography – Camera usage of 8 mm motion-picture film perforated Type S.*

ISO 3067, *Cinematography – Motion-picture camera cartridge, 8 mm Type S, Model I – Notches for film speed, film identification and colour-balancing filter – Dimensions and positions.*

ISO 3654, *Cinematography – Motion-picture camera cartridge, 8 mm Type S, Model I – Camera fit and take-up core drive – Dimensions and specifications.*¹⁾

3 DIMENSIONS AND CHARACTERISTICS OF CAMERA RUN LENGTH

3.1 The camera run length of the film (see figure 1) can vary between 3 666 perforation pitches (15,5 m or 50.9 ft) and 3 710 perforation pitches (15,7 m or 51.5 ft). The overall length of the film is to be determined by the manufacturer to provide for the camera run length specified.

NOTE – A nominal perforation pitch, based on 72 pitches per foot, of 4,234 mm (0.166 7 in) is assumed for all specifications of the number of perforation pitches in a given film length.

3.2 The processed film returned to the customer shall consist of at least 3 600 pitches (15,24 m; 50.0 ft), the customer return length. The customer return length is that part of the camera run length available for subject matter. The customer return length shall commence following a leader of not more than 13 pitches, 55 mm (2.2 in), measured from the frame in the camera aperture as the cartridge is supplied by the manufacturer, and end at least 37 pitches, 157 mm (6.2 in), short of the final frame of the camera run length as limited by the perforation cut-out (see the annex).

NOTE – The sum of the minimum customer return length (3 600 perforation pitch intervals), leader (13 perforation pitch intervals), and trailer (37 perforation pitch intervals) is intentionally less than the minimum camera run length (3 666 perforation pitch intervals).

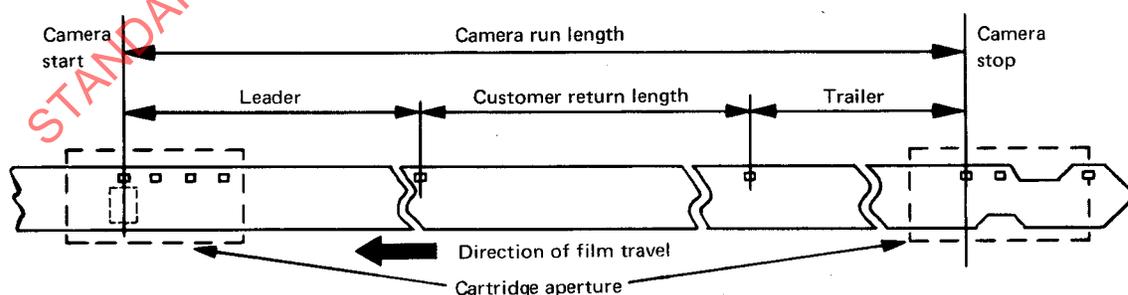
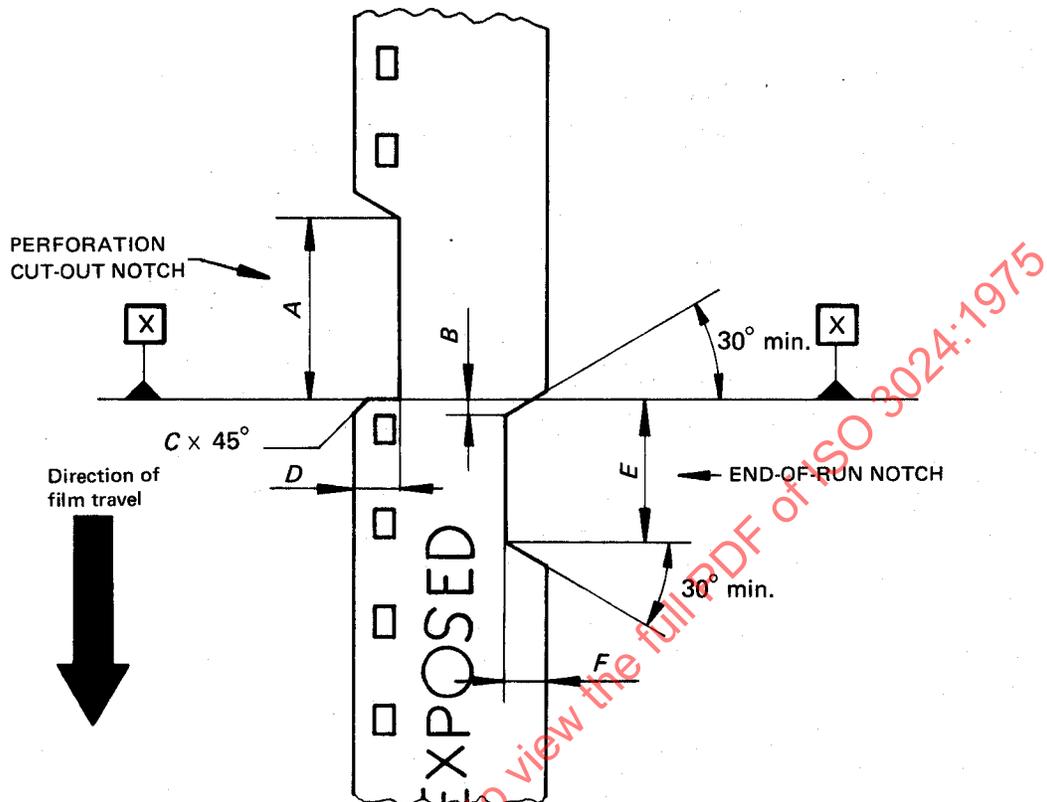


FIGURE 1 – Run length

NOTE – The end of the film should have a visual marking in the picture area, and the perforations should be cut out so that this final portion of the film will stop in the film cartridge aperture, and give the user a visual confirmation that all film has been exposed.

1) At present at the stage of draft.

4 DIMENSIONS AND CHARACTERISTICS OF PERFORATION CUT-OUT AND END-OF-RUN NOTCHES



Dimension	mm	in
A*	5,38 min.	0.212 min.
B**	0,30 max.	0,012 max.
C	0,55 max.	0.022 max.
D	1,50 min.	0.059 min.
E	4,52 ± 0,50	0.178 ± 0.020
F	0,80 min.	0.31 min.

* See 4.2.

** See 4.5.

FIGURE 2 – Notch dimensions