

# American National Standard for video recording— cartridge spools— 2-in quadruplex tape

Approved February 4, 1988

Sponsor: Society of Motion Picture and Television Engineers

Page 1 of 2 pages

## 1. Scope

This standard specifies the dimensions of a 2.7-in (68.58-mm) diameter supply spool for quadruplex equipment designed to utilize a reloadable cartridge or cassette.

## 2. Referenced American National Standard

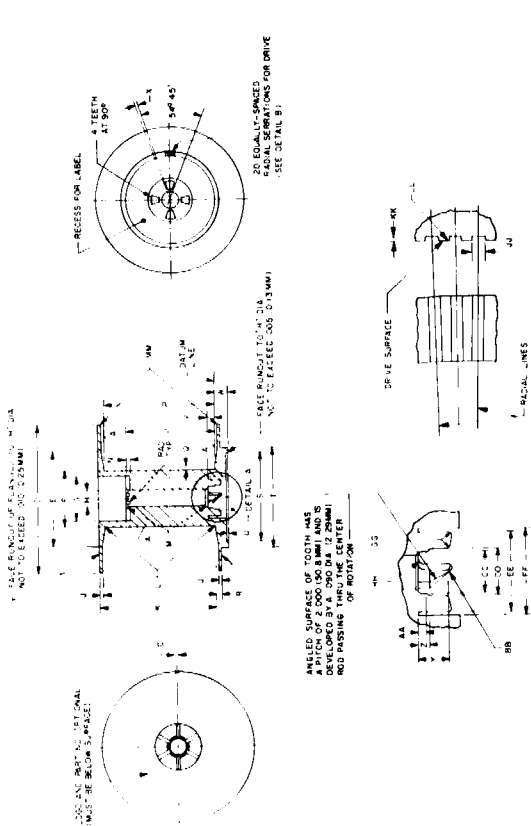
This standard is intended for use in conjunction

with the following American National Standard:

ANSI/ASME B46.1M-1985, Surface Texture (Surface Roughness, Waviness and Lay)

## 3. Dimensions

The dimensions of the spool shall be as specified in the figure and table.



DETAIL A

DETAIL B

DETAIL C

DETAIL D

DETAIL E

Dimensions	Inches		Millimeters	
	See Note 2 (6 equal spaces)		(6 equal spaces)	
A	0.060		1.52	
C	2.70	± 0.010	68.58	± 0.25
D	1.700	± 0.030	43.18	± 0.76
E	1.000	± 0.005	25.40	± 0.13
F	0.812	± 0.010	20.62	± 0.25
G	0.313	± 0.001	7.95	± 0.03
H	0.055	± 0.000	1.40	± 0.00
J	2.120	± 0.010	53.85	± 0.25
K	0.004	max	0.10	max
L	0.015	× 45° (chamfer)	0.38	× 45° (chamfer)
M	0.060		1.52	
N	1.611	± 0.010	40.92	± 0.25
O	2.030	± 0.005	51.56	± 0.13
P	0.070	± 0.040	1.78	± 1.02
Q	0.090	± 0.005	2.29	± 0.13
R	1.625	± 0.005	41.28	± 0.13
S	1.820	± 0.005	46.23	± 0.13
T	0.020	min	0.51	min
U	0.070	max	1.78	max
V	0.137	± 0.005	3.48	± 0.13
W	0.230	± 0.005	5.84	± 0.13
X	0.045	typ	1.14	typ
Y	0.227	ref	5.77	ref
Z	0.100		2.54	
AA	0.090		2.29	
BB	0.01	typ	0.3	typ
CC	0.375	± 0.010	9.52	± 0.25
DD	0.410	± 0.010	10.41	± 0.25
EE	0.710	± 0.010	18.03	± 0.25
FF	0.750		19.05	
GG	0.031	max	0.79	max
HH	0.031		0.79	
JJ	0.017	min	0.43	min
KK	0.020	max	0.51	max
LL	0.005	min	0.13	min
MM	0.008	max	0.20	max
NN	0.003	max typ	0.08	max typ
OO	0.010	± 0.005	0.25	± 0.13

\* D shall be concentric to H within 0.006 in (0.15 mm).

+ F shall be concentric to H within 0.002 in (0.05 mm). Maximum taper in 2.030-in (51.56 mm) dimension shall not exceed 0.002 in (0.05 mm).

‡ S and T shall be concentric to H within 0.010 in (0.25 mm).

NOTE 1: The teeth described in Detail A and the serrations described in Detail B are intended as alternate methods for driving the spools.

NOTE 2: Surfaces indicated by the letter A should contain surface finish designated as No. 63 (microinch measurement of surface polish), as defined in ANSI/ASME B46.1M-1985.

CAUTION NOTICE: This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken to reaffirm, revise, or withdraw this standard no later than five years from the date of publication. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute. Printed in USA

Copyright © 1988 by the Society of Motion Picture and Television Engineers. Reprinted by permission.

ANSI American National Standards Institute, 1430 Broadway, New York, N.Y. 10018