

INCH-POUND

MIL-DTL-7034/4  
5 May 1998  
SUPERSEDING  
MS24566E  
17 July 1984

DETAIL SPECIFICATION SHEET

PULLEY, CONTROL, ANTI-FRICTION BEARING

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-7034.

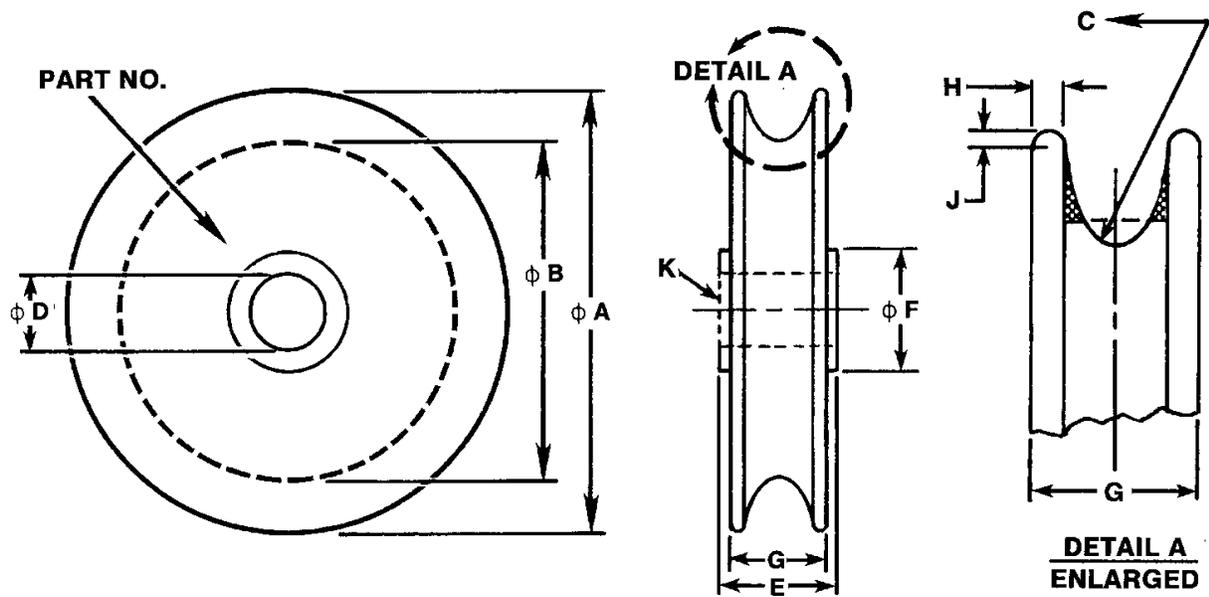


FIGURE 1. Configuration and dimensions

TABLE I. Dimensions and interface characteristics.

Dash no. <u>1/</u>	Cable size NOM  DIA (REF)	A	B	C	D	E	F	G
		Outside DIA -.010	Groove DIA -.010	Groove RAD	Bore DIA -.0005	I.R. width -.005	Shoulder DIA (approx)	Width sheave
-1B	1/16	1.250	.972	.055	.1900	.297	.297	.250
-2B	3/32	2.500	2.222	-.003			.332	-.012
-3B	1/8 5/32	2.000	1.510	.112				.422
-4B	3/16	3.500	3.010	-.003	.2500	.484	.390	-.012
-5B	3/16	5.000	4.374	.145				.500
-6B	7/32 1/4	6.000	5.374	-.005	.3750	.620	.591	±.007

TABLE I. Dimensions and interface characteristics - Continued.

Dash no. <u>1/</u>	H	J	K	Pulley Assy Weight Max (lbs)	Pulley Strength Allowable limit load on pulley (lbs)	ABMA bearing (REF)
	Flange width	±.005	Bore chamfer X 45°			
-1B	.060	.040	.020 -.015	.026	300	KP3AK
-2B	±.005			.075	500	KP3K
-3B	.086	.086		.090	600	KP4K
-4B	±.006			.200	1200	
-5B	.092	.092		.500	3000	KP6
-6B	±.007			.660	4000	

1/ See note 2 for example of complete part number.

#### REQUIREMENTS:

1. Material: Phenolic see acquisition specification.
2. Finish: see acquisition specification.
3. Surface roughness: see acquisition specification.
4. Hub may be added to pulley sheave where width of bearing outer race is greater than the maximum width of the pulley sheave.
5. Pulleys -1B and -3B shall not be installed on frequently used aircraft controls to bend the cable more than 15° from a straight line.

#### NOTES:

1. Dimensions are in inches. End faces of all bearing hubs shall be flat and square with bore within ±1°.

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2. Example of complete part identifying number (PIN). In the transition of MS24566 to detail specification sheet MIL-DTL-7034/4, the MS24566 part numbers have been retained as follows:

MS24566

Basic part  
identifier

-2B

Identifies a size 2 nonmetallic  
sheave and fixed ball bearing  
with contact seal

All dash numbers in Table I are identical to and interchangeable with like dash numbers of MS24566.

3. The replacement sequence for this document is AN210 replaced by MS24566 replaced by MIL-DTL-7034/4.

4. For design feature purposes, this specification sheet takes precedence over the acquisition document referenced herein.

CONCLUDING MATERIAL

Custodians:  
Air Force - 99  
Army - AV  
Navy - AS

Preparing activity:  
DLA - CC

(Project 3020-0001-07)

Review activities:  
Air Force - 82