

INCH-POUND

MIL-DTL-7034/3
5 May 1998
SUPERSEDING
MS20221E
17 April 1984

DETAIL SPECIFICATION SHEET

PULLEY, GROOVE, HEAVY DUTY, CONTROL, AIRCRAFT

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.

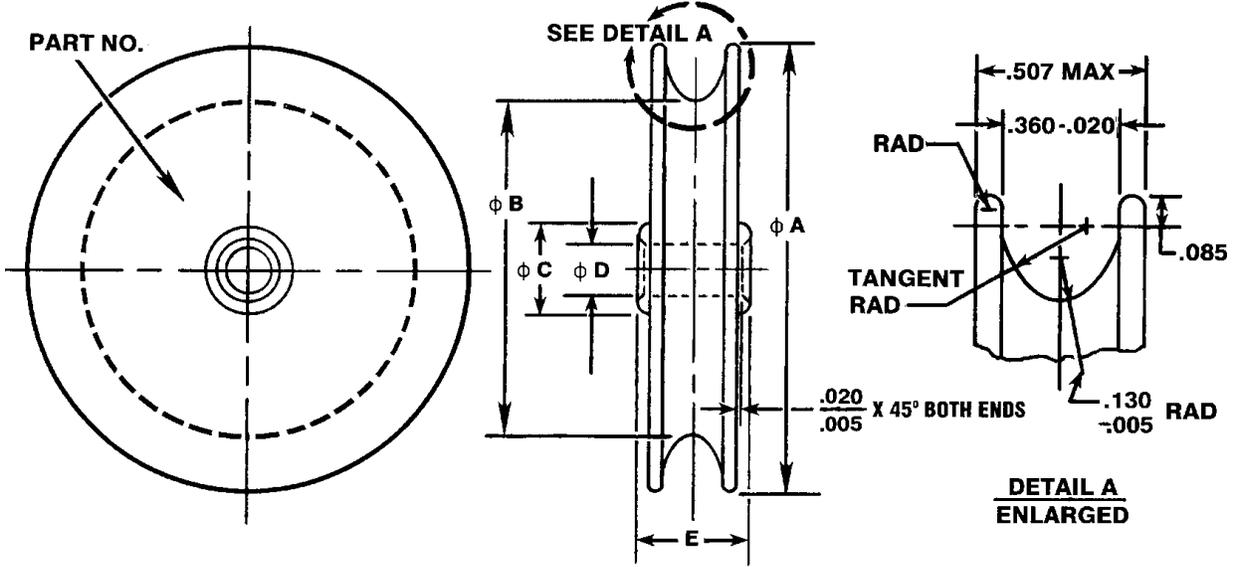


FIGURE 1. Configuration and dimensions.

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TABLE I. Dimensions and interface characteristics.

Dash no. <u>1/</u>		Cable size (REF) (inches)	A	B	C	D	E	Pulley assembly MAX weight (lb)
Nonmetallic sheave	Metallic sheave		Outside DIA ±.005	Groove DIA ±.005	Shoulder DIA (approx)	Bore DIA -.0005	Width I.R. -.005	
<u>2/</u>	A1	3/16	2.625	2.000	.455	.3125	.625	.165
-2	A2	7/32	4.125	3.500	.768	.5000	.750	.450
-3	A3	1/4	5.625	5.000				.680

TABLE I. Dimensions and interface characteristics - Continued.

Dash no. <u>1/</u>		Allowable limit load on pulley (lbs)	Pulley Strength			ABMA bearing (REF)
Nonmetallic sheave	Metallic sheave		MAX limit load on cable independent of wrap angle			
			3/16 cable	7/32 cable	1/4 cable	
<u>2/</u>	A1	2800	2620 lbs	3060 lbs	3500 lbs	PD5K
-2	A2	4900				P8
-3	A3	7000				

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

2/ The -1 nonmetallic pulley was removed from a previous MS standard and applicable specification.

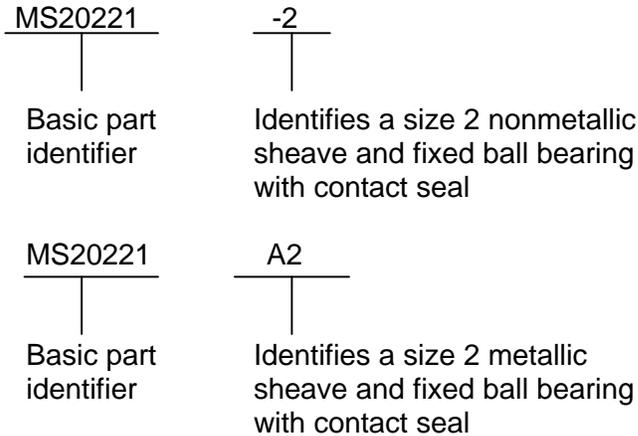
REQUIREMENTS:

1. Material: 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.

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NOTES:

1. Dimensions are in inches. Unless otherwise specified, decimal tolerances: -.010. End faces of all bearing hubs shall be flat and square with bore within $\pm 1^\circ$.
2. Example of complete part identifying number (PIN). In the transition of MS20221 to detail specification sheet MIL-DTL-7034/3, the MS20221 part numbers have been retained as follows.



All dash numbers in Table I are identical to and interchangeable with like dash numbers of MS20221

3. The replacement sequence for this document is AN221 replaced by MS20221 replaced by MIL-DTL-7034/3.
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 3020-0001-05)

Review activities:
Air Force - 82