

INCH-POUND

MIL-DTL-7034/2  
5 May 1998  
SUPERSEDING  
MS20220C  
31 July 1982

DETAIL SPECIFICATION SHEET

PULLEY, GROOVE, FLIGHT 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.

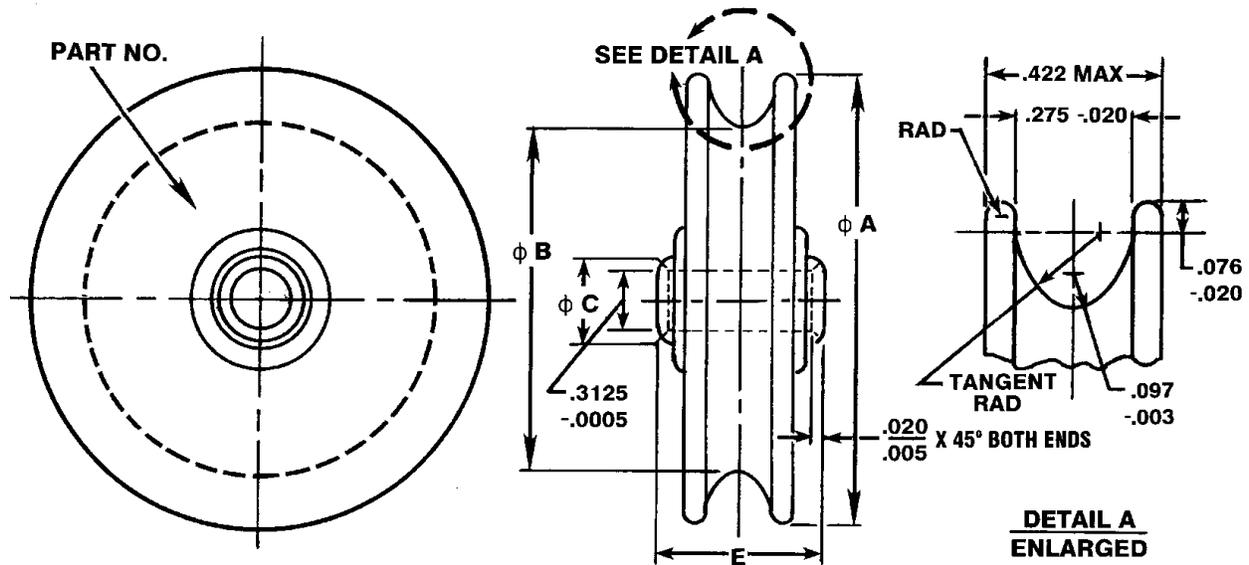


FIGURE 1. Configuration and dimensions.

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TABLE I. Dimensions and interface characteristics.

Dash no. <u>1/</u>		Cable size (REF) (inches)	A	B	C	E	Pulley assembly MAX weight (lb)
Nonmetallic sheave	Metallic sheave		Outside DIA ±.005	Groove DIA ±.005	Shoulder DIA (approx)	Width I.R. -.005	
-1	A1	1/8	1.750	1.250	.455	.625	.070
-2	A2		3.000	2.500			.175
-3	A3	5/32	4.250	3.750			.260
-4	A4	3/16	5.500	5.000			.370

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					
			1/8 cable	5/32 cable	3/16 cable			
-1	A1	500	830 lbs	1040 lbs	1250 lbs	P5K		
-2	A2	1680				PD5K		
-3	A3	2500						
-4	A4							

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

REQUIREMENTS:

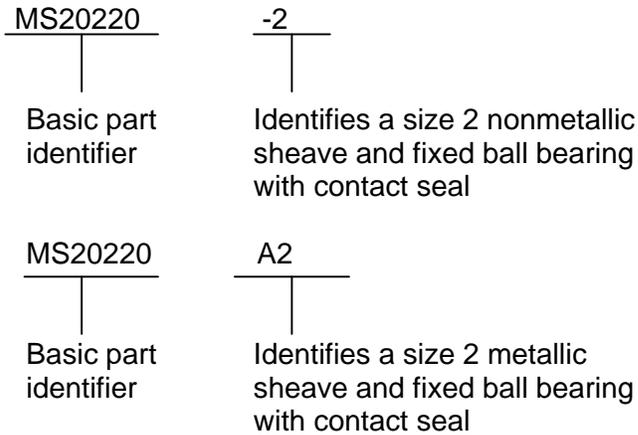
1. Material: see acquisition specification.
2. Finish: see acquisition specification.
3. Surface roughness: see acquisition specification.
4. Hub may be added to pulley sheave where width of bearing outer race is greater than the maximum width of the pulley sheave.

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 ± 1°.

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2. Example of complete part identifying number (PIN). In the transition of MS20220 to detail specification sheet MIL-DTL-7034/2, the MS20220 part numbers have been retained as follows.



All dash numbers in Table I are identical to and interchangeable with like dash numbers of MS20220.

3. The replacement sequence for this document is AN220 replaced by MS20220 replaced by MIL-DTL-7034/2.
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 3020-0001-03)

Review activities:  
Air Force - 82