

INCH-POUND

MIL-DTL-7034/1
5 May 1998
SUPERSEDING
MS20219F
30 July 1982

DETAIL SPECIFICATION SHEET

PULLEY, GROOVE, SECONDARY 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.

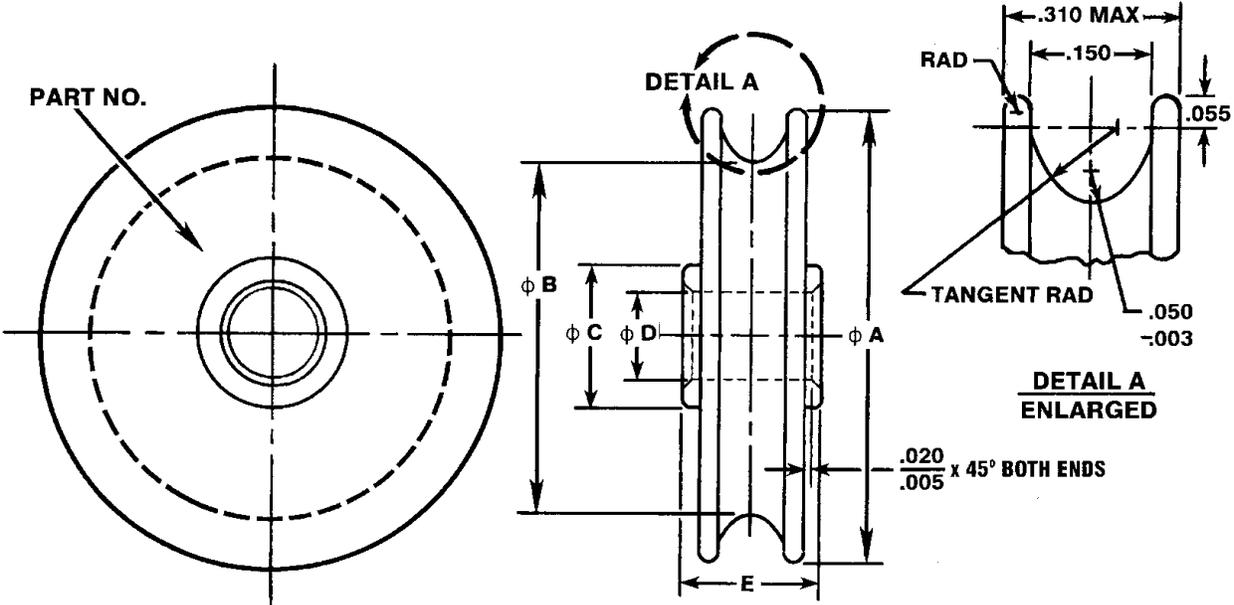


FIGURE 1. Configuration and dimensions.

TABLE I. Dimensions and interface characteristics.

Dash no. 1/		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	
-1	A1	1/16 and 3/32	1.312	1.000	.372	.2500	.438	.058
-2	A2		1.750	1.438	.423	.2500	.438	.066
-3	A3		1.750	1.438	.769	.6250	.438	.096
-4	A4		2.625	2.312	.423	.2500	.438	.110
-5	A5		2.625	2.312	.769	.6250	.438	.125

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

TABLE I. Dimensions and interface characteristics - Continued.

Dash no. 1/		Pulley Strength			ABMA bearing (REF)
Nonmetallic sheave	Metallic sheave	Allowable limit load on pulley (lbs)	MAX limit load on cable independent of wrap angle		
			1/16 cable	3/32 cable	
-1	A1	480	307 lbs	460 lbs	W4AK 2/
-2	A2				P4K
-3	A3				P10K
-4	A4				P4K
-5	A5	920			P10K

2/ The P4K is an approved alternate for the W4AK bearing.

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.
5. Pulleys smaller than size -2 shall not be used in flight control systems.

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 MS20219 to detail specification sheet MIL-DTL-7034/1, the MS20219 part numbers have been retained as follows:

<u>MS20219</u> Basic part identifier	<u>-2</u> Identifies a size 2 nonmetallic sheave and fixed ball bearing with contact seal
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<u>MS20219</u> Basic part identifier	<u>A2</u> Identifies a size 2 metallic sheave and fixed ball bearing with contact seal
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All dash numbers in table I are identical to and interchangeable with like dash numbers of MS20219.

3. The replacement sequence for this document is AN219 replaced by MS20219 replaced by MIL-DTL-7034/1.
4. For design feature purposes, this specification sheet takes precedence over the acquisition document referenced herein.

CONCLUDING MATERIAL

Custodians:
Air Force -99
Navy - AS

Preparing activity:
DLA - CC

(Project 3020-0001-01)

Review activities:
Air Force - 82
Army - MI, AT