



FAA-PMA Approved

General Description of Pulleys

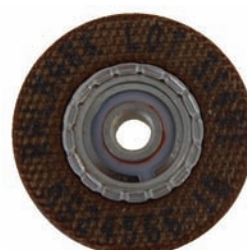
- MCS378- Series: Phenolic flight control pulleys with ball bearings. FAA-PMA approved replacements for the Cessna S378, A-/BB-, and NAS383- series pulleys on Cessna Aircraft
- MS20219- Series: Pulley with high pressure laminated phenolic sheave and fixed ball bearing with contact seal. These supersede the AN219- Series pulleys of like dash number
- MS20219A-Series: Pulley with aluminum alloy sheave and fixed ball bearing with contact seal. Sheave anodized per MIL-A-8625.
- MS20220- Series: Phenolic flight control pulleys with ball bearings. These supersede the AN220- Series pulleys of like dash number.
- MS24566- Series: Phenolic flight control pulleys with ball bearings. These supersede the AN210- series pulleys of like dash number
- NAS383- Series: Phenolic commercial grade pulleys with graphite impregnated bronze sleeve bearings. These are typically used with a bushing. The MCS378- series pulleys supersede these for most Cessna aircraft applications. The MCS378 pulley replaces both the NAS383 pulley and it's bushing
- S394, S1052-1, and S1710-1: Cessna nylon pulleys with no bearings
- S378-4S: Cessna pulley similar to S378-4 but smaller diameter. Used on 177RG s/n 177RG0202 and on, and F177RG0038 and on for routing stabilator, stabilator trim, and rudder cables. Six required per aircraft
- 1660433- Series: Cessna phenolic pulleys with ball bearings



MCS378 Series Pulley



MS20219 Series Pulley



MS24566 Series Pulley

Part Number	Cable Diameter	Outside Diameter	Groove Diameter	Bore Diameter	Pulley Width	Hub Width	Load Limit	Superseded by
A-114	3/16	3.500	2.875	0.380	0.443	----	---	MCS378-4 ¹
A-124	3/32	2.500	2.000	0.255	0.270	----	---	MCS378-2 ¹
A-130	3/16	2.000	1.375	0.380	0.433	----	---	MCS378-3 ¹
AN210-1A	1/16, 5/64, 3/32	1.250	----	0.1900	0.250	0.297	185	MS24566-1B ²
AN210-2A	1/16, 5/64, 3/32	2.500	----	0.1900	0.250	0.297	500	MS24566-2B ²
AN210-3A	1/8, 5/32, 3/16	2.000	----	0.2500	0.422	0.484	450	MS24566-3B ²
AN210-4A	1/8, 5/32, 3/16	3.500	----	0.2500	0.422	0.484	1200	MS24566-4B ²
AN210-1B	1/16, 5/64, 3/32	1.250	0.972	0.1900	0.250	0.297	300	MS24566-1B
AN210-2B	1/16, 5/64, 3/32	2.500	2.222	0.1900	0.250	0.297	500	MS24566-2B
AN210-3B	1/8, 5/32, 3/16	2.000	1.510	0.2500	0.422	0.484	600	MS24566-3B
AN210-4B	1/8, 5/32, 3/16	3.500	3.010	0.2500	0.422	0.484	1200	MS24566-4B
AN210-5B	3/16, 7/32, 1/4	5.000	4.374	0.3750	0.500	0.620	3000	MS24566-5B
AN220-1	1/8, 5/32, 3/16	1.755	1.255	0.3125	0.422	0.625	500	MS20220-1
AN220-2	1/8, 5/32, 3/16	3.005	2.505	0.3125	0.422	0.625	1680	MS20220-2
AN220-3	1/8, 5/32, 3/16	4.255	3.755	0.3125	0.422	0.625	2500	MS20220-3
AN220-4	1/8, 5/32, 3/16	5.505	5.005	0.3125	0.422	0.625	2500	MS20220-4
BB-208	----	----	----	----	----	----	---	MCS378-3 ¹
MCS378-1	1/16, 5/64, 3/32	1.250	0.972	0.1900	0.250	0.297	300	
MCS378-2	1/16, 5/64, 3/32	2.500	2.222	0.1900	0.250	0.297	500	
MCS378-3	1/8, 5/32, 3/16	2.000	1.510	0.2500	0.422	0.484	600	
MCS378-4	1/8, 5/32, 3/16	3.500	3.010	0.2500	0.422	0.484	1200	
MCS378-5	3/16, 7/32, 1/4	5.000	4.374	0.3750	0.500	0.620	3000	
MS20219-1, MS20219A1	1/16, 3/32	1.312	1.000	0.2500	0.310	0.438	480	
MS20219-2, MS20219A2	1/16, 3/32	1.750	1.438	0.2500	0.310	0.438	480	
MS20219-3, MS20219A3	1/16, 3/32	1.750	1.438	0.6250	0.310	0.438	480	
MS20219-4, MS20219A4	1/16, 3/32	2.625	2.312	0.2500	0.310	0.438	920	
MS20219-5, MS20219A5	1/16, 3/32	2.625	2.312	0.6250	0.310	0.438	920	
MS20220-1	1/8, 5/32, 3/16	1.755	1.255	0.3125	0.422	0.625	500	
MS20220-2	1/8, 5/32, 3/16	3.005	2.505	0.3125	0.422	0.625	1680	
MS20220-3	1/8, 5/32, 3/16	4.255	3.755	0.3125	0.422	0.625	2500	
MS20220-4	1/8, 5/32, 3/16	5.505	5.005	0.3125	0.422	0.625	2500	
MS24566-1B	1/16, 5/64, 3/32	1.250	0.972	0.1900	0.250	0.297	300	
MS24566-2B	1/16, 5/64, 3/32	2.500	2.222	0.1900	0.25	0.297	500	
MS24566-3B	1/8, 5/32, 3/16	2.000	1.510	0.2500	0.422	0.484	600	
MS24566-4B	1/8, 5/32, 3/16	3.500	3.010	0.2500	0.422	0.484	1200	
MS24566-5B	3/16, 7/32, 1/4	5.000	4.374	0.3750	0.500	0.620	3000	
NAS383-1	3/32	1.250	0.875	0.255	0.270	----	---	
NAS383-2	3/32	2.500	2.000	0.255	0.270	----	---	MCS378-2 ¹
NAS383-3	3/16	2.000	1.375	0.380	0.443	----	---	MCS378-3 ¹
NAS383-4	3/16	3.500	2.875	0.380	0.443	----	---	MCS378-4 ¹
S378-1 and -1L	1/16, 5/64, 3/32	1.250	0.972	0.1900	0.250	0.297	300	MCS378-1 ¹
S378-2	1/16, 5/64, 3/32	2.500	2.222	0.1900	0.250	0.297	500	MCS378-2 ¹
S378-3 and -3L	1/8, 5/32, 3/16	2.000	1.510	0.2500	0.422	0.484	600	MCS378-3 ¹
S378-4	1/8, 5/32, 3/16	3.500	3.010	0.2500	0.422	0.484	1200	MCS378-4 ¹
S378-4S	1/8, 5/32, 3/16	~3.0	~2.5	0.2500	0.422	0.484	?	
S378-5	3/16, 7/32, 1/4	5.000	4.374	0.3750	0.500	0.620	3000	MCS378-5 ¹
S394	-----	1.000	0.750	0.250	0.410	0.420	----	
S1052-1	-----	1.060	0.560	0.250	0.690	0.750	----	
S1710-1	-----	0.750	0.560	0.250	0.410	0.410	----	
1660433-1	-----	1.250	1.000	0.190	0.250	0.300	----	
1660433-2	-----	2.250	2.250	0.190	0.250	0.300	----	

Notes:

¹ Cessna aircraft only

² Not official supersedure. They are dimensionally identical except the MS24566 pulleys have superior bearings.

The listed dimensions and loads are for reference and identification only and are not guaranteed to be accurate.