

McFarlane Aviation Products

Pulley Dimensions and Supersedures

Part Number	Cable Diameter	Outside Diameter	Groove Diameter	Bore Diameter	Pulley Width	Hub Width	Load Limit	Superseded by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*
A-124	3/32	2.500	2.000	0.255	0.270	----	---	MCS378-2*
A-130	3/16	2.000	1.375	0.380	0.433	----	---	MCS378-3*
AN210-1A	1/16, 5/64, 3/32	1.250	----	0.1900	0.250	0.297	185	MS24566-1B**
AN210-2A	1/16, 5/64, 3/32	2.500	----	0.1900	0.250	0.297	500	MS24566-2B**
AN210-3A	1/8, 5/32, 3/16	2.000	----	0.2500	0.422	0.484	450	MS24566-3B**
AN210-4A	1/8, 5/32, 3/16	3.500	----	0.2500	0.422	0.484	1200	MS24566-4B**
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

Part Number	Cable Diameter	Outside Diameter	Groove Diameter	Bore Diameter	Pulley Width	Hub Width	Load Limit	Superseded by
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*
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	

Part Number	Cable Diameter	Outside Diameter	Groove Diameter	Bore Diameter	Pulley Width	Hub Width	Load Limit	Superseded by
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*
NAS383-3	3/16	2.000	1.375	0.380	0.443	----	---	MCS378-3*
NAS383-4	3/16	3.500	2.875	0.380	0.443	----	---	MCS378-4*
S378-1 and -1L	1/16, 5/64, 3/32	1.250	0.972	0.1900	0.250	0.297	300	MCS378-1*
S378-2	1/16, 5/64, 3/32	2.500	2.222	0.1900	0.250	0.297	500	MCS378-2*
S378-3 and -3L	1/8, 5/32, 3/16	2.000	1.510	0.2500	0.422	0.484	600	MCS378-3*
S378-4	1/8, 5/32, 3/16	3.500	3.010	0.2500	0.422	0.484	1200	MCS378-4*
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*
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	----	

* Cessna aircraft only.

** No official supersedure. They are dimensionally identical except the MS24566 pulleys have superior bearings.

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

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.