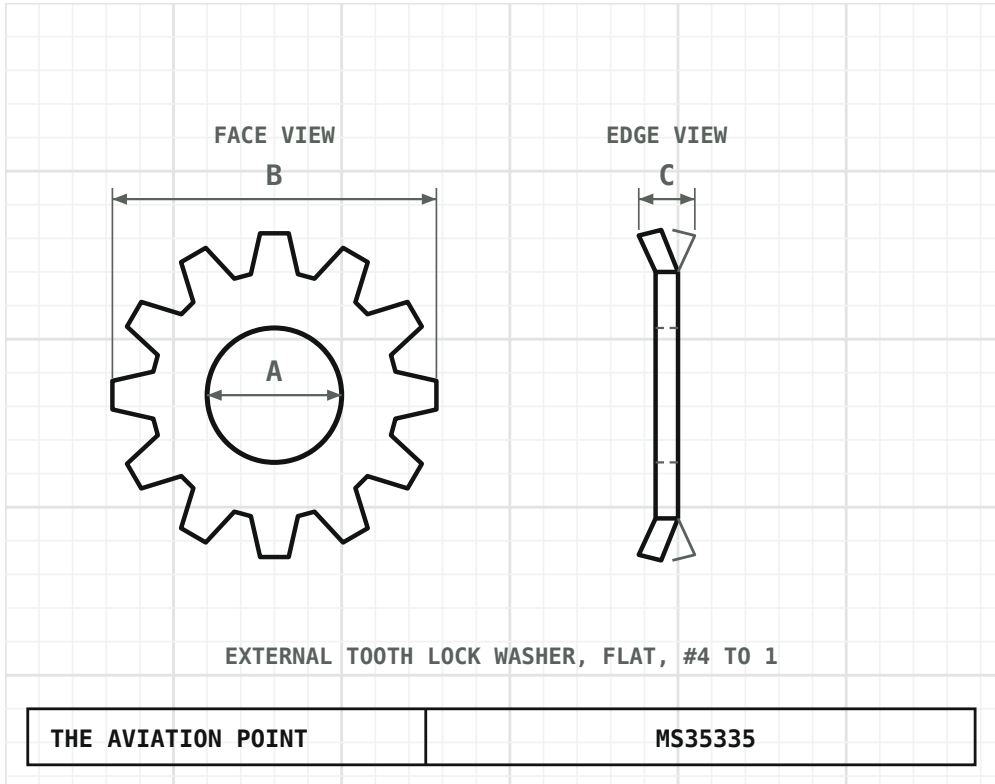
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MS35335 washer — external tooth lock washer, flat, #4 to 1

MS35335: flat external tooth lock washer, #4 to 1, in zinc plated carbon steel, passivated corrosion-resistant steel and tin-brass or phosphor bronze.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	External tooth lock washer
Material	Carbon steel, UNS G10500 to UNS G10640, hardness 40-50 HRC; corrosion-resistant steel, UNS S41000; tin-brass, UNS C42500; phosphor bronze, temper H04, ASTM B159, UNS C51000
Finish	Carbon steel: mechanically deposited zinc per SAE-AMS-C-81562. Corrosion-resistant steel: passivate per SAE-AMS-QQ-P-35. Tin-brass or phosphor bronze: uncoated.
Procurement	ASME B18.21.1
Status	Active: reactivated after February 2004 and may be used for new and existing designs and acquisitions. Notice 1 (June 2009): reviewed and determined valid for use in acquisition.

Dimensions by size

Dimension, in	#4 (.112)	#6 (.138)	#8 (.164)	#10 (.190)	1/4 (.250)	5/16 (.312)	3/8 (.375)	7/16 (.438)	1/2 (.500)	9/16 (.562)	5/8 (.625)	3/4 (.750)	7/8 (.875)	1 (1.000)
A max — A dia, max (inside)	.123	.150	.176	.204	.267	.332	.398	.464	.530	.596	.663	.795	.927	1.060
A min — A dia, min (inside)	.115	.141	.168	.195	.256	.320	.384	.448	.513	.576	.641	.768	.897	1.025
B max — B dia, max (outside)	.260	.320	.381	.410	.510	.610	.694	.760	.900	.985	1.070	1.260	1.410	1.620
B min — B dia, min (outside)	.245	.305	.365	.395	.494	.588	.670	.740	.880	.960	1.045	1.220	1.380	1.590
C max — C, max (thickness)	.019	.022	.023	.025	.028	.034	.040	.040	.045	.045	.050	.055	.060	.067
C min — C, min (thickness)	.015	.016	.018	.020	.023	.028	.032	.032	.037	.037	.042	.047	.052	.059

Dimensions in inches, as tabulated in the standard (letters as on its drawing).

Part numbers

#4 (.112) 3 part numbers

Part no.	Material and finish
MS35335-29	Carbon steel, zinc plate
MS35335-57	Corrosion-resistant steel, passivated
MS35335-85	Tin-brass or phosphor bronze, uncoated (optional)

#6 (.138) 3 part numbers

Part no.	Material and finish
MS35335-30	Carbon steel, zinc plate
MS35335-58	Corrosion-resistant steel, passivated
MS35335-86	Tin-brass or phosphor bronze, uncoated (optional)

#8 (.164) 3 part numbers

Part no.	Material and finish
MS35335-31	Carbon steel, zinc plate
MS35335-59	Corrosion-resistant steel, passivated
MS35335-87	Tin-brass or phosphor bronze, uncoated (optional)

#10 (.190) 3 part numbers

Part no.	Material and finish
MS35335-32	Carbon steel, zinc plate
MS35335-60	Corrosion-resistant steel, passivated
MS35335-88	Tin-brass or phosphor bronze, uncoated (optional)

1/4 (.250) 3 part numbers

Part no.	Material and finish
MS35335-33	Carbon steel, zinc plate
MS35335-61	Corrosion-resistant steel, passivated
MS35335-89	Tin-brass or phosphor bronze, uncoated (optional)

5/16 (.312) 3 part numbers

Part no.	Material and finish
MS35335-34	Carbon steel, zinc plate
MS35335-62	Corrosion-resistant steel, passivated
MS35335-90	Tin-brass or phosphor bronze, uncoated (optional)

3/8 (.375) 3 part numbers

Part no.	Material and finish
MS35335-35	Carbon steel, zinc plate
MS35335-63	Corrosion-resistant steel, passivated
MS35335-91	Tin-brass or phosphor bronze, uncoated (optional)

7/16 (.438) 3 part numbers

Part no.	Material and finish
MS35335-36	Carbon steel, zinc plate
MS35335-64	Corrosion-resistant steel, passivated
MS35335-92	Tin-brass or phosphor bronze, uncoated (optional)

1/2 (.500) 3 part numbers

Part no.	Material and finish
MS35335-37	Carbon steel, zinc plate
MS35335-65	Corrosion-resistant steel, passivated
MS35335-93	Tin-brass or phosphor bronze, uncoated (optional)

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9/16 (.562) 3 part numbers

Part no.	Material and finish
MS35335-38	Carbon steel, zinc plate
MS35335-66	Corrosion-resistant steel, passivated
MS35335-94	Tin-brass or phosphor bronze, uncoated (optional)

3/4 (.750) 3 part numbers

Part no.	Material and finish
MS35335-40	Carbon steel, zinc plate
MS35335-68	Corrosion-resistant steel, passivated
MS35335-96	Tin-brass or phosphor bronze, uncoated (optional)

1 (1.000) 3 part numbers

Part no.	Material and finish
MS35335-42	Carbon steel, zinc plate
MS35335-70	Corrosion-resistant steel, passivated
MS35335-98	Tin-brass or phosphor bronze, uncoated (optional)

5/8 (.625) 3 part numbers

Part no.	Material and finish
MS35335-39	Carbon steel, zinc plate
MS35335-67	Corrosion-resistant steel, passivated
MS35335-95	Tin-brass or phosphor bronze, uncoated (optional)

7/8 (.875) 3 part numbers

Part no.	Material and finish
MS35335-41	Carbon steel, zinc plate
MS35335-69	Corrosion-resistant steel, passivated
MS35335-97	Tin-brass or phosphor bronze, uncoated (optional)

How to read the part number

Part	Meaning
Format	MS35335-<dash>
Example	MS35335-29 — Carbon steel external tooth lock washer, zinc plated, #4 (.112)

Notes

- Part number: MS35335 plus the dash number, which sets both the size and the material (example MS35335-29).
- Rev. G supersedes MS35335F (13 Dec 1993).
- The number of teeth is at the option of the supplier; the sheet shows two acceptable tooth designs.
- Use with fasteners having heads large enough to contact the lock washer teeth.
- Acquisition: this sheet and ASME B18.21.1. In the event of a conflict, the text of this standard takes precedence.
- Packaging per ASTM D3951.
- Approved data governs. Use the part the SRM, drawing or IPC calls for.

SOURCES · MS35335 Rev. G, Feb 2004 — Washer, Lock, Flat-External Tooth

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/washers/ms35335/