

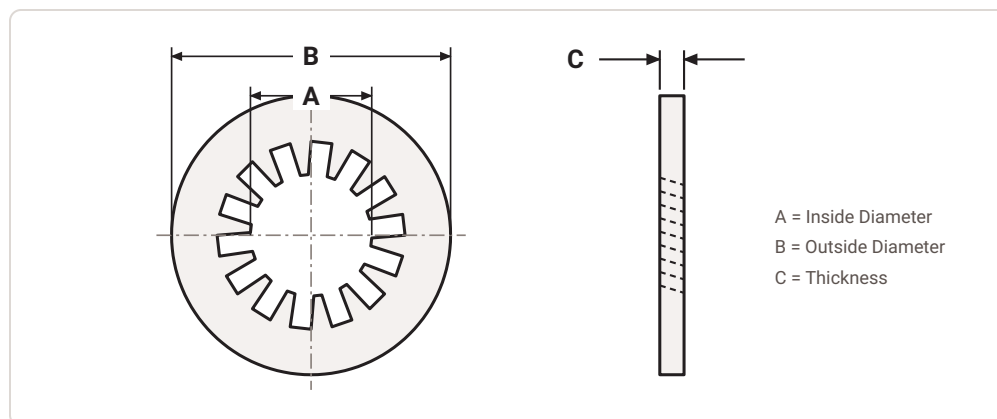


PRODUCT DATA SHEET

Internal Tooth Lock Washers – Inch Series

1.0 Dimensions As per ASME B18.21.1 Table 6 (inches)

Hardened washers with twisted teeth around the **inside** edge, hidden under the screw head or nut for a smooth, finished appearance. **Materials:** zinc plated carbon steel or 410 stainless steel.



Nominal Washer Size	Inside Diameter (A)		Outside Diameter (B)		Thickness (C)		Nutty Stock #	
	Max	Min	Max	Min	Max	Min	Plated Steel	410 Stainless
#2	0.095	0.089	0.200	0.175	0.016	0.010	ILW2	–
#3	0.109	0.102	0.232	0.215	0.016	0.010	–	–
#4	0.123	0.115	0.270	0.245	0.018	0.012	ILW4	XILW4
#5	0.136	0.129	0.280	0.255	0.020	0.014	–	–
#6	0.150	0.141	0.295	0.275	0.022	0.016	ILW6	XILW6
#8	0.176	0.168	0.340	0.325	0.023	0.018	ILW8	XILW8
#10	0.204	0.195	0.381	0.365	0.024	0.018	ILW10	XILW10
#12	0.231	0.221	0.410	0.394	0.027	0.020	–	–
1/4	0.267	0.256	0.478	0.460	0.028	0.023	ILW14	XILW14
5/16	0.332	0.320	0.610	0.594	0.034	0.028	ILW516	XILW516
3/8	0.398	0.384	0.692	0.670	0.040	0.032	ILW38	XILW38
7/16	0.464	0.448	0.789	0.740	0.040	0.032	ILW716	–
1/2	0.530	0.512	0.900	0.867	0.045	0.037	ILW12	–
9/16	0.596	0.576	0.985	0.957	0.045	0.037	ILW916	–
5/8	0.663	0.640	1.071	1.045	0.050	0.042	ILW58	–
11/16	0.728	0.704	1.166	1.130	0.050	0.042	–	–
3/4	0.795	0.769	1.245	1.220	0.055	0.047	ILW34	–
13/16	0.861	0.832	1.315	1.290	0.055	0.047	–	–
7/8	0.927	0.894	1.410	1.364	0.060	0.052	ILW78	–
1	1.060	1.019	1.637	1.590	0.067	0.059	ILW1	–
1-1/8	1.192	1.144	1.830	1.799	0.067	0.059	–	–
1-1/4	1.325	1.275	1.975	1.921	0.067	0.059	–	–

– = not stocked; call for availability.

2.0 Material & Hardness As per ASME B18.21.1

Material	Hardness
Carbon Steel (SAE J403 1050–1065)	40 HRC to 50 HRC (392 HV to 513 HV)
410 Stainless Steel (SAE J405 410)	40 HRC to 50 HRC (392 HV to 513 HV)



Plated or decarburized surface layers are removed before hardness testing. The lighter HRA scale may be used in lieu of HRC on thin washers (ASME B18.21.1, 3.4.2).

3.0 Application & Tooth Design

- Internal tooth washers are preferred where a smooth periphery is wanted: the teeth are hidden under the head for a neat finished look and won't snag wires or clothing.
- Well suited to small-head screws (pan, round, fillister) and electrical connections.
- Type A (straight) or Type B (bent) tooth design is at the manufacturer's option unless specified by the purchaser; number, length and free height of the teeth are also optional (ASME B18.21.1, 3.2).
- Teeth project uniformly on both sides, so the washer works either side up.

4.0 Surface Finish Plated Steel

Properties	Zinc	Zinc Yellow
Type	Trivalent (Cr+3)	Hexavalent (Cr+6)
Color	Clear	Yellow
Minimum Coating Thickness	0.0001" / 3 microns	0.0001" / 3 microns
Specification	ASTM F1941/F1941M Fe/Zn 3AN	ASTM F1941/F1941M Fe/Zn 3C

Disclaimer: The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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