



METRIC - INTERNAL EXTERNAL TOOTH LOCKWASHERS

DIN 6999 D;  
JIS B 1255

Nominal Size	A		B		C		Preferred Number of Teeth*	
	Inside Diameter		Outside Diameter		Thickness			
	Max	Min	Max	Min	Max	Min	Internal	External
M4	4.5	4.3	15	14.5	0.64	0.56	8	12
M5	5.5	5.3	15	14.5	0.64	0.56	8	12
M6	6.7	6.4	17.5	17.0	0.85	0.75	9	12
M8	8.7	8.4	22.5	21.9	0.95	0.85	9	12
M10	10.9	10.5	26	25.4	1.055	0.945	9	14
M12	12.9	12.5	29	28.4	1.055	0.945	10	14
M14	14.9	14.5	32	31.2	1.265	1.135	10	14
M16	16.9	16.5	35	34.2	1.47	1.33	12	16

\* Slight deviation from the preferred number of teeth is permitted.

Description	A hardened circular washer with twisted prongs or teeth protruding from both the inside and outer edges of the washer.
Applications/ Advantages	Preferred lockwasher for use with metric screws in the following situations: (1) where a larger bearing surface is desired; (2) for an optimum electrical connection; (3) where the hole is oversized or out of round; (4) as an insert between two adjustable pieces where a longitudinal or rotational adjustment must be maintained.
Material	Spring steel
Hardness	Rockwell C 36 - 42
Plating	See Appendix-A for information about the plating of steel lock washers.