



DIMENSIONS AND FEATURES							PROOF CONDITIONS		PACKAGING		
For screws of	d min.-max.	D min.-max.	s min.-max.	h min.-max.	No. of knurls	Kg/1000 pieces	Loading test [N] [N]	Min. residual deflection	No. of pcs standard packaging	No. of pcs bulk packaging	No. of pcs micro packaging
M 3.0	3.10-3.35	9.65-10.35	0.57-0.63	0.95-1.20	28	0.325	2400	0.25	2000	30000	
M 4.0	4.10-4.40	13.65-14.35	0.96-1.04	1.40-1.80	32	1.102	4200	0.30	2000	13000	
M 5.0	5.10-5.40	15.65-16.35	1.16-1.24	1.70-2.10	36	1.568	6800	0.35	1000	6500	
M 6.0	6.10-6.40	17.65-18.35	1.36-1.44	2.10-2.50	45	2.466	9500	0.40	1000	5000	
M 8.0	8.20-8.56	21.58-22.42	1.55-1.65	2.20-2.70	45	3.759	17500	0.50	1000	3000	
M 10.0	10.20-10.56	26.58-27.42	1.75-1.85	2.60-3.10	45	6.938	27500	0.70	500	1750	
M 12.0	12.40-12.83	31.50-32.50	1.95-2.05	3.10-3.60	45	10.694	40000	0.90	250	1100	

Dimensions in mm

Technical details:

Hardness: 420 - 510 Hv.
 Tightening torques: see table.
 Chemical analysis of raw material: see table.

Anticorrosion surface treatment:

Burnishing and light oiling.
 White mech. zinc plating 12my Cr6 free.
 Yellow mech. zinc plating 12my Cr6 free.
 Delta Protekt® KL 100 6-10 my.
 Geomet® 321 type A 5-7 my.
 Other coatings upon customer request.

Features and specific use:

Washer with elasticity that has a round, knurled ring with resistance to loosening on its contact surface with the screw's underhead.
 In every field of applications in which high resistances to loosening and elastic stress are required on soft surfaces (plastic, aluminium, etc...) and slotted holes.