

451-174 to 451-216

DIMENSIONAL DATA

Metric Beryllium Copper Crinkle Washers to BS 4463

Dimensions in mm

Bolt size	Internal diameter		External diameter		Height		Thickness nom
	maximum	minimum	maximum	minimum	maximum	minimum	
M1.6	1.80	1.7	3.7	3.52	0.51	0.36	0.16
M2	2.30	2.2	4.6	4.42	0.53	0.38	0.16
451-174 (M2.2)	2.50	2.4	5.2	5.02	0.53	0.38	0.16
M2.5	2.80	2.7	5.8	5.62	0.53	0.38	0.16
M3	3.32	3.2	6.4	6.18	0.61	0.46	0.16
(M3.5)	3.82	3.7	6.9	6.68	0.79	0.63	0.20
M4	4.42	4.3	8.1	7.88	0.84	0.69	0.28
451-198	5.42	5.3	9.2	8.98	0.89	0.74	0.30
451-204	6.55	6.4	11.5	11.23	1.14	0.99	0.40
M6	8.55	8.4	15.0	14.73	1.40	1.25	0.40
M8	10.68	10.5	19.6	19.27	1.70	1.55	0.55
M10	13.18	13.0	22.0	21.67	1.90	1.65	0.55
M12	15.18	15.0	25.5	25.17	2.06	1.80	0.55
(M14)	17.18	17.0	27.8	27.47	2.41	2.16	0.70
M16	19.21	19.0	31.3	30.91	2.41	2.16	0.70
(M18)	21.21	21.0	34.7	34.31	2.66	2.16	0.70
M20							

Sizes in parenthesis are non-preferred.