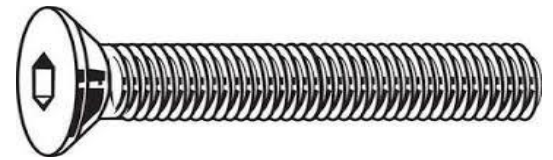


FLAT HEAD SOCKET CAP SCREWS METRIC



Nominal Size	Thread Pitch	B		A		H		J	T	W	D
		Body Diameter		Head Diameter		Head Height		Hex Socket Size	Key Engagement	Wall Thickness	Drill Allowance
		Max	Min	Theoretical Sharp	Absolute Min.	Ref	Flush Tolerance	Nom	Min	Min	Max
M3	0.5	3.00	2.86	6.72	5.35	1.86	0.30	2.0	1.1	0.25	0.3
M4	0.7	4.00	3.82	8.96	7.80	2.48	0.30	2.5	1.5	0.45	0.4
M5	0.8	5.00	4.82	11.20	9.75	3.10	0.35	3.0	1.9	0.66	0.5
M6	1	6.00	5.82	13.44	11.70	3.72	0.35	4.0	2.2	0.70	0.6
M8	1.25	8.00	7.78	17.92	15.60	4.96	0.40	5.0	3.0	1.16	0.8
M10	1.5	10.00	9.78	22.40	19.50	6.20	0.50	6.0	3.6	1.62	0.9
Tolerance on Length		Up to 16mm, incl.: ± 0.3				Over 16mm to 60mm, incl.: ± 0.5		Over 60mm to 150mm, incl.: ± 0.8			

Description	Has a similar design as a metric socket button head screw but has an 82° countersunk flat head.
Applications/ Advantages	Used when a flush mounting, high strength screw is required. Commonly used in tools and dies where moving parts pass over the fastened area.
Material	Class 10.9 socket flat head cap screws shall be made from an alloy steel which conforms to the following chemical composition requirements-- <i>Carbon</i> : 0.28-0.50%; <i>Phosphorous</i> : 0.035% maximum; <i>Sulfur</i> : 0.035% maximum.
Heat Treatment	Class 10.9 socket flat head cap screws shall be heat treated by quenching in oil from above the transformation temperature and reheating to a tempering temperature of 380°C minimum.
Hardness	Rockwell C 38 - 44
Tensile	Full-size screws: 1040 MPa minimum; Machined test specimen: 1220 MPa minimum
Yield Strength	Machined test specimen: 1100 MPa minimum
Elongation in	8% minimum
Reduction of	35% minimum
Plating	Metric class 10.9 socket flat head cap screws are usually supplied with a plain finish.