



Datasheet

RS Stock No: 4838326

Steel Bright Zinc Plated, Hexagon Cap Socket Screws: Metric Thread



Socket Caps have a small cylindrical head with tall, vertical sides giving them space saving advantages as well as greater tensile strength. They also require less side room for wrenches. These socket screws are used in many applications including the manufacture and repair of vehicles, machine tooling, tools and dies, machine production and repair and general engineering applications. Most importantly, socket cap head screws provide safety, reliability and cost efficiency.

- Threaded in accordance with DIN 912 Standard
- 12.9 grade heat-treated high tensile alloy steel
- 1200 MPa maximum tensile strength* compared to just 800 MPa for structural grade 8.8 so can be used in high tensile applications
- 1100 yield strength** compared to 640-660 MPa depending on the size of the screw for structural grade 8.8
- 970 MPa proof load*** compared to just 580-600 depending on the size of the screw for structural grade 8.8
- Used for applications with limited space in high-tensile applications
- Suitable for use in many industrial applications and similarly medical, construction, electronic and domestic applications
- Requires a Hex Key / Allen Key

***Tensile Strength:** The maximum load in tension (pulling apart) which a material can withstand before breaking or fracturing.

**Yield Strength: The maximum load at which a material exhibits a specific permanent deformation.

***Proof Load: An axial tensile load which the product must withstand without evidence of any permanent set.





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Please view our full range listing below for all Bright Zinc Plated Steel Hexagon Socket Cap Head Screws:

Head Shape	Material	Thread Size	Length	RS Part No.		
Hex Socket Cap	Zinc Plated Steel	M2.5	6 mm	4838124		
Hex Socket Cap	Zinc Plated Steel	M2.5	12 mm	4838130		
Hex Socket Cap	Zinc Plated Steel	M3	6 mm	4838146		
Hex Socket Cap	Zinc Plated Steel	M3	8 mm	4838168		
Hex Socket Cap	Zinc Plated Steel	M3	10 mm	4838174		
Hex Socket Cap	Zinc Plated Steel	M3	12 mm	4915209		
Hex Socket Cap	Zinc Plated Steel	M3	16 mm	4838180		
Hex Socket Cap	Zinc Plated Steel	M3	20 mm	4838196		
Hex Socket Cap	Zinc Plated Steel	M4	8 mm	4915215		
Hex Socket Cap	Zinc Plated Steel	M4	10 mm	4838203		
Hex Socket Cap	Zinc Plated Steel	M4	12 mm	4915221		
Hex Socket Cap	Zinc Plated Steel	M4	16 mm	4838225		
Hex Socket Cap	Zinc Plated Steel	M4	20 mm	4838231		
Hex Socket Cap	Zinc Plated Steel	M4	25 mm	4915237		
Hex Socket Cap	Zinc Plated Steel	M4	30 mm	4838247		
Hex Socket Cap	Zinc Plated Steel	M4	40 mm	4838253		
Hex Socket Cap	Zinc Plated Steel	M5	10 mm	4838269		
Hex Socket Cap	Zinc Plated Steel	M5	12 mm	4915243		
Hex Socket Cap	Zinc Plated Steel	M5	16 mm	4839981		
Hex Socket Cap	Zinc Plated Steel	M5	20 mm	4838275		
Hex Socket Cap	Zinc Plated Steel	M5	25 mm	4915259		
Hex Socket Cap	Zinc Plated Steel	M5	30 mm	4839997		
Hex Socket Cap	Zinc Plated Steel	M5	40 mm	4838281		
Hex Socket Cap	Zinc Plated Steel	M5	50 mm	4838297		





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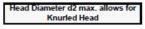
Head Shape	Material	Thread Size	Length	RS Part No.		
Hex Socket Cap	Zinc Plated Steel	M6	10 mm	4838304		
Hex Socket Cap	Zinc Plated Steel	M6	12 mm	4838310		
Hex Socket Cap	Zinc Plated Steel	M6	16 mm	4838326		
Hex Socket Cap	Zinc Plated Steel	M6	20 mm	4840004		
Hex Socket Cap	Zinc Plated Steel	M6 25 mm		4838332		
Hex Socket Cap	Zinc Plated Steel	M6	30 mm	4838348		
Hex Socket Cap	Zinc Plated Steel	M6	35 mm	4915265		
Hex Socket Cap	Zinc Plated Steel	M6	40 mm	4840010		
Hex Socket Cap	Zinc Plated Steel	M6	50 mm	4838354		
Hex Socket Cap	Zinc Plated Steel	M6	60 mm	4838360		
Hex Socket Cap	Zinc Plated Steel	M8	16 mm	4838382		
Hex Socket Cap	Zinc Plated Steel	M8	20 mm	4838398		
Hex Socket Cap	Zinc Plated Steel	M8	25 mm	4915271		
Hex Socket Cap	Zinc Plated Steel	M8	30 mm	4838405		
Hex Socket Cap	Zinc Plated Steel	M8	M8 35 mm			
Hex Socket Cap	Zinc Plated Steel	M8	40 mm	4838411		
Hex Socket Cap	Zinc Plated Steel	M8	50 mm	4838427		
Hex Socket Cap	Zinc Plated Steel	M8	60 mm	4839515		
Hex Socket Cap	Zinc Plated Steel	M8	70 mm	4839521		
Hex Socket Cap	Zinc Plated Steel	M8	80 mm	4839537		
Hex Socket Cap	Zinc Plated Steel	M10	20 mm	4840026		
Hex Socket Cap	Zinc Plated Steel	M10	25 mm	4840032		
Hex Socket Cap	Zinc Plated Steel	M10	30 mm	4840054		
Hex Socket Cap	Zinc Plated Steel	M10	40 mm	4840060		
Hex Socket Cap	Zinc Plated Steel	M10	50 mm	4840076		





SOCKET HEAD CAP SCREWS DIN 912/ ISO 4762 / ANSI B 18.3.1 M





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Thread Size d1	(M	1.4)	M1.6		M2		M2.5		M2.6		M3		M4		
Thread Pitch	0	.3	0.35		0	.4	0.	45	0.	45	0	.5	0	.7	
Thread Length b	1	4	1	15	16 17		7	NA		18		20			
Head Dia. d2	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
DIN 912 (1983)	2.46	2.74	2.86	3.14	3.62	3.98	4.32	4.68	4.82	5.18	5.32	5.68	6.78	7.22	
ISO 4762 (1997)			2.86	3.14	3.62	3.98	4.32	4.68			5.32	5.68	6.78	7.22	
ANSI B 18.3.1 M (1986)			2.87	3.14	3.65	3.98	4.33	4.68			5.32	5.68	6.80	7.22	
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
DIN 912 (1983)	1.26	1.40	1.46	1.60	1.86	2.00	2.36	2.50	2.46	2.60	2.86	3.00	3.82	4.00	
ISO 4762 (1997)			1.46	1.60	1.86	2.00	2.36	2.50			2.86	3.00	3.82	4.00	
ANSI B 18.3.1 M (1986)			1.52	1.60	1.91	2.00	2.40	2.50			2.89	3.00	3.88	4.00	
Key Size nominal s		.3		1.5		.5		2		2	-	.5		3	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
DIN 912 (1983)	1.32	1.36	1.52	1.56	1.52	1.56	2.02	2.06	2.02	2.06	2.52	2.58	3.02	3.08	
ISO 4762 (1997)			1.52	1.56	1.52	1.56	2.02	2.06			2.52	2.58	3.02	3.08	
ANSI B 18.3.1 M (1986)			1.520	1.545	1.520	1.545	2.020	2.045			2.52	2.56	3.020	3.071	
Key Engagement t	m		min.		min.		min.		min.		min.		min.		
DIN 912 (1983)	0	.6	0.7		1		1.10		1.2			.3	2		
ISO 4762 (1997)			0.7		1		1.10					.3	2		
ANSI B 18.3.1 M (1986)	<u> </u>		().8		1	1.	25	<u> </u>		1	.5		2	
Thread Size d1	N	<i>N</i> 5	1	M6		18	M	10	M	12	(M	14)	M	16	
Thread Pitch		.8	1		1.25			.5		75		2	2		
Thread Length b	2	22		24	2	8	32			6	40		44		
Head Dia. d2	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
DIN 912 (1983)	8.28	8.72	9.78	10.22	12.73	13.27	15.73	16.27	17.73	18.27	20.67	21.33	23.67	24.33	
ISO 4762 (1997)	8.28	8.72	9.78	10.22	12.73	13.27	15.73	16.27	17.73	18.27	20.67	21.33	23.67	24.33	
ANSI B 18.3.1 M (1986)	8.27	8.72	9.74	10.22	12.70	13.27	15.67	16.27	17.63	18.27	20.6	21.33	23.58	24.33	
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
DIN 912 (1983)	4.82	5.00	5.7	6.0	7.64	8.00	9.64	10.00	11.57	12.00	13.57	14.00	15.57	16.00	
ISO 4762 (1997)	4.82	5.00	5.7	6.0	7.64	8.00	9.64	10.00	11.57	12.00	13.57	14.00	15.57	16.00	
ANSI B 18.3.1 M (1986)	4.86	5.00	5.85	6.00	7.83	8.00	9.81	10.00	11.79	12.00	13.77	14.00	15.76	16.00	
Key Size nominal s		4		5	· · · · · ·	8		8	_	0		2		4	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
DIN 912 (1983)	4.020	4.095	5.02	5.14	6.02	6.14	8.025	8.175	10.025	10.175	12.032	12.212	14.032	14.212	
ISO 4762 (1997)	4.020	4.095	5.02	5.14	6.02	6.14	8.025	8.175	10.025	10.175	12.032	12.212	14.032	14.212	
ANSI B 18.3.1 M (1986)	4.020	4.084	5.020	5.084	6.020	6.095	8.025	8.115	10.025	10.127	12.032	12.146	14.032	14.159	
Key Engagement t		in.	min.		min.		min.		min.		min.		min.		
DIN 912 (1983)		.5	3		4		5		6		7		8		
ISO 4762 (1997)		.5	3		4		5		6		7		8		
ANSI B 18.3.1 M (1986)	2	.5	3		4		5		6		7		8		
Thread Size d1	(M	18)	M20		(M	(M22)		M24		(M27)		M30		M33	
Thread Pitch		.5	2.5		2.5		3		3		3.5		3.5		
Thread Length b	4	8		52	5	6	6	30	6	6	7	2	7	78	
Head Dia. d2	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
DIN 912 (1983)	26.67	27.33	29.67	30.33	32.61	33.39	35.61	36.39	39.61	40.39	44.61	45.39	49.61	50.39	
ISO 4762 (1997)			29.67	30.33		L	35.61	36.39			44.61	45.39		L	
ANSI B 18.3.1 M (1986)	<u> </u>		29.53	30.33	<u> </u>	L	35.48	36.39			44.42	45.39		L	
Head Height k	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
DIN 912 (1983)	17.57	18.00	19.48	20.00	21.48	22.00	23.48	24.00	26.48	27.00	29.48	30.00	32.38	33.00	
ISO 4762 (1997)	L		19.48	20.00		L	23.48	24.00			29.48	30.00		┣───	
ANSI B 18.3.1 M (1986)	L		19.73	20.00			23.70	24.00		_	29.67	30.00		<u> </u>	
Key Size nominal s		4		1/	1	(1	8		9	2	2	2	4	
DIN 042 (4082)	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
DIN 912 (1983)	14.032	14.212	17.05	17.23	17.05	17.23	19.065	19.275	19.065	19.275	22.065	22.275	24.065	24.275	
ISO 4762 (1997)	<u> </u>		17.05	17.23		<u> </u>	19.065	19.275	—		22.065	22.275		┣───	
ANSI B 18.3.1 M (1986)			17.050	17.216		L	19.065	19.243			22.065	22.319		<u> </u>	
Key Engagement t	min.		min.		min.		min.		min.		min.		min.		
DIN 912 (1983) ISO 4762 (1997)	8		10		11		12		13.5		15.5 15.5		18		
ISO 4762 (1997) ANSI B 18.3.1 M (1986)			10					12				15.5 15.0			
Analo 10.3.1 M (1800)	L			IV				4			18				
For More Det	ailed Infor	mation, P	lease Ref	er To Com	plete DIN	, ISO, or	ANSI St	tandard,	Which /	Are The	Governi	ng Stan	dards.		