



ENGLISH

Datasheet

RS Stock No: 281186

Steel Black Self-Colour Hexagon Socket Button Head Screws: Metric Thread



Button Head Socket Screws are designed for light duty. They have a similar thread design as a Socket Cap Screw although the dome-shaped head is wider and has a lower profile than a Socket Cap Screw, presenting an aesthetic appearance to an assembly. These fasteners are ideal when a wider bearing surface is required.

Self-colour steel is an uncoated mild steel and is used in applications where corrosion resistance is not required. If painted or suitably treated these self-colour button head socket screws can be use din outdoor applications.

- Threaded in accordance with ISO 7380 standard
- 10.9 grade High Tensile Steel
- Used for applications with limited space in high tensile applications
- Suitable for light fastening applications in most food, facilities maintenance and electronic & domestic applications.
- Typical applications include; Machine tooling, Securing guards and covers, Securing ornamental, fixtures, plus many more engineering applications
- Requires a Hex key / Allen key





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Please view our full range listing below for all Steel Black Self-Colour Hexagon Socket Button Head Screws.

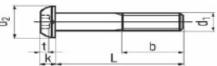
Head Shape	Material	Thread Size	Length	RS Part No.	
Hex Socket Cap	Steel	M3	8 mm	281186	
Hex Socket Cap	Steel	M3	10 mm	281192	
Hex Socket Cap	Steel	M3	12 mm	281209	
Hex Socket Cap	Steel	M3	5 mm	8229094	
Hex Socket Cap	Steel	M3	6 mm	8229098	
Hex Socket Cap	Steel	M4	8 mm	281215	
Hex Socket Cap	Steel	M4	10 mm	281221	
Hex Socket Cap	Steel	M4	12 mm	281237	
Hex Socket Cap	Steel	M4	16 mm	281243	
Hex Socket Cap	Steel	M4	25 mm	8229101	
Hex Socket Cap	Steel	M4	20 mm	8229108	
Hex Socket Cap	Steel	M4	6 mm	8229307	
Hex Socket Cap	Steel	M5	10 mm	281259	
Hex Socket Cap	Steel	M5	12 mm	281265	
Hex Socket Cap	Steel	M5	16 mm	281271	
Hex Socket Cap	Steel	M5	20 mm	281287	
Hex Socket Cap	Steel	M5	6 mm	8229105	
Hex Socket Cap	Steel	M5	8 mm	8229114	





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Thread Size d1		M3	M4	M5	M6	M8	M10	M12	M16
Thread Pitch		0.5	0.7	0.8	1	1.25	1.5	1.75	2
~ISO 7380	min.	5.4	7.24	9.14	10.07	13.57	17.07	20.48	27.48
Head Dla. d2	max.	5.7	7.60	9.50	10.50	14.00	17.50	21.00	28.00
ANSI B 18.3.4M	min.	5.4	7.24	9.14	10.07	13.57	17.07	20.48	27.48
Head Dla. d2	max.	5.7	7.60	9.50	10.50	14.00	17.50	21.00	28.00
~ISO 7380	min.	1.40	1.95	2.50	3.00	4.10	5.20	6.24	8.44
Head Height k	max.	1.65	2.20	2.75	3.30	4.40	5.50	6.60	8.80
ANSI B 18.3.4M Head Height k	min.	1.43	1.95	2.50	3.00	4.05	5.20	6.24	8.44
	max.	1.65	2.20	2.75	3.30	4.40	5.50	6.60	8.80
~ISO 7380 Key Size s	Nominal Size	2	2.5	3	4	5	6	8	10
	min.	2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025
	max.	2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115
ANSI B 18.3.4M Key Size s	Nominal Size	2	2.5	3	4	5	6	8	10
	min.	2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025
	max.	2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115
~ISO 7380 Key Engagement t	min.	1.04	1.3	1.56	2.08	2.60	3.12	4.16	5.20
ANSI B 18.3.4M Key Engagement t	min.	1.04	1.3	1.56	2.08	2.60	3.12	4.16	5.20

	~ ISO	7380	<<<><<<< <d>Length Tolerance</d>						ANSI B 18.3.4.M			
Nominal Length	min	max	M3	M4	M5	M6	M8	M10	M12	M16	min	max
6	5.76	6.24									5.7	6.3
8	7.71	8.29									7.7	8.3
10	9.71	10.29									9.7	10.3
12	11.65	12.35									11.7	12.3
16	15.65	16.35	Γ – 7								15.7	16.3
20	19.58	20.42									19.5	20.5
25	24.58	25.42									24.5	25.5
30	29.58	30.42									29.5	30.5
35	34.5	35.5			ı — —	i – –					34.5	35.5
40	39.5	40.5									39.5	40.5
45	44.5	45.5) 	i – – i	i		44.5	45.5
50	49.5	50.5									49.5	50.5
55	54.4	55.6								1	54.5	55.5
60	59.4	60.6									59.5	60.5

Nominal Lengths above the stepped line Full Thread

Nominal Lengths below the stepped line, the thread length at the discretion of the manufacturer, may be between a minimum of 2d+12mm and a maximum which is within 2 P of the head.

Neither standard is intended for high strength applications. The only purpose of having them produced in property class 10.9 or 12.9 is to increase the wear resistance of the socket drive.

~ISO 7380	ANSI B 18.3.4M			
Material	Steel Stain		Material	Steel
Property Class	10.9	A2 & A4	Property Class	12.9
Finish	Furnace Black	Plain	Finish	Fumace Black
Thread Tolerance	6g	6 g	Thread Tolerance	4g6g