

# Datasheet

**RS Stock No: 281271**

## **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 used in outdoor applications.

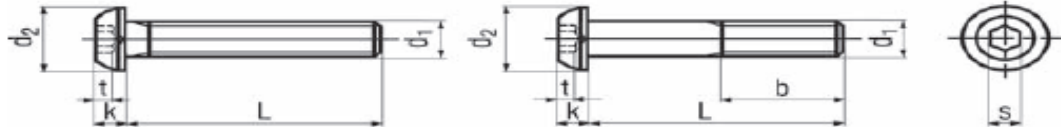
- Threaded in accordance with ISO 7380 standard
- 10.9 grade High Tensile Steel
- Used for applications with limited space in high tensile applications
- Suitable for light fastening applications in most food, facilities maintenance and electronic & domestic applications.
- Typical applications include;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



**ENGLISH**

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

<b>Head Shape</b>	<b>Material</b>	<b>Thread Size</b>	<b>Length</b>	<b>RS Part No.</b>
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



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 Head Dia. d2	min.	5.4	7.24	9.14	10.07	13.57	17.07	20.48	27.48
	max.	5.7	7.60	9.50	10.50	14.00	17.50	21.00	28.00
ANSI B 18.3.4M Head Dia. d2	min.	5.4	7.24	9.14	10.07	13.57	17.07	20.48	27.48
	max.	5.7	7.60	9.50	10.50	14.00	17.50	21.00	28.00
~ISO 7380 Head Height k	min.	1.40	1.95	2.50	3.00	4.10	5.20	6.24	8.44
	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

Nominal Length	~ ISO 7380		Length Tolerance									ANSI B 18.3.4M	
	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									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									34.5	35.5	
40	39.5	40.5									39.5	40.5	
45	44.5	45.5									44.5	45.5	
50	49.5	50.5									49.5	50.5	
55	54.4	55.6									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.

~ISO 7380	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.
ANSI B 18.3.4M	

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

For More Detailed Information, Please Refer To Complete ISO Or ANSI Standard, Which Are The Governing Standards.