



ENGLISH

Datasheet

Stock No: 281401

Steel Black Self-Colour, Hexagon Countersunk Socket Screws: Metric Thread



Countersunk socket screws are designed for light duty applications where there is limited space. These screws are widely used in many applications where a strong and reliable joint is required. Typically countersunk socket screws are used to fasten plates and strips of metal to equipment and machinery as their flat head allows a flush flat finish. This range of socket screws are of mild steel and if painted or suitably treated these screws can be used outside.

- Mild Steel
- Threaded in accordance with Din 7991 standard
- · Used in applications where a wider head and lower profile is required
- Suitable for light fastening applications
- Typical applications include; machine tooling, security guarding, panel building and general fastening applications
- Also used in many internal joinery applications
- Requires a Hex Key/Allen Key

Head Shape	Material	Thread Size Length		RS Part No.		
Hex Socket Countersunk	Steel	M3 6 mm		281372		
Hex Socket Countersunk	Steel	M3 8 mm		281388		
Hex Socket Countersunk	Steel	M3	10 mm	281394		
Hex Socket Countersunk	Steel	M3	12 mm	281401		
Hex Socket Countersunk	Steel	M3	16 mm	292423		
Hex Socket Countersunk	Steel	M3	20 mm	292439		
Hex Socket Countersunk	Steel	M4	8 mm	281417		
Hex Socket Countersunk	Steel	M4	10 mm	281423		
Hex Socket Countersunk	Steel	M4	12 mm	281439		
Hex Socket Countersunk	Steel	M4	16 mm	281445		
Hex Socket Countersunk	Steel	M4	20 mm	292445		
Hex Socket Countersunk	Steel	M4	25 mm	292451		
Hex Socket Countersunk	Steel	M5	10 mm	281451		
Hex Socket Countersunk	Steel	M5	12 mm	281467		
Hex Socket Countersunk	Steel	M5 16 mm		281473		
Hex Socket Countersunk	Steel	M5	20 mm	281489		
Hex Socket Countersunk	Steel	M5	25 mm	292467		
Hex Socket Countersunk	Steel	M5	30 mm	292467		
Hex Socket Countersunk	Steel	M6	10 mm	281495		
Hex Socket Countersunk	Steel	M6	16 mm	281502		
Hex Socket Countersunk	Steel	M6	20 mm	281518		
Hex Socket Countersunk	Steel	M6	25 mm	281524		
Hex Socket Countersunk	Steel	M6	30 mm	292489		
Hex Socket Countersunk	Steel	M6	35 mm	292495		
Hex Socket Countersunk	Steel	M6	40 mm	8229142		
Hex Socket Countersunk	Steel	M6	50 mm	8229145		
Hex Socket Countersunk	Steel	M8	16 mm	281546		
Hex Socket Countersunk	Steel	M8	20 mm	281552		
Hex Socket Countersunk	Steel	M8	25 mm	281568		
Hex Socket Countersunk	Steel	M8	30 mm	292502		
Hex Socket Countersunk	Steel	M8	35 mm	292518		
Hex Socket Countersunk	Steel	M8	40 mm	8229149		
Hex Socket Countersunk	Steel	M8	75 mm	8229151		
Hex Socket Countersunk	Steel	M8	50 mm	8229158		

*********Notice*******

Lindstrom Metric, LLC will supply all Flat Head Socket Cap Screws With Full Thread, not according to below formulas.

i nread size di		(M2)	(M2.5)	M3	M4	M5	МЬ	M8	M10	M12	(M14)	M16	(M18)	M20	(M22)	M24
Thread Pitch		0.4	0.45	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
Head Angle a		90*	90"	90*	90*	90*	90°	90*	90*	90*	90"	90*	90*	90*	60*	60*
	For Lengths s125mm	10	11	12	14	16	18	22	26	30	34	38	42	46	50	54
DIN 7991 Thread Length Formula	For Lengths >125mms200mm						24	28	32	36	40	44	48	52	56	60
	For Lengths > 200 mm								45	49	53	57	61	65	69	73
	ISO 10642 & ANSI B18.3.5M use a shank length / grip length formula to determine thread length Refer to full ISO or ANSI standard for more details.															
DIN 7991	min.	3.7	4.7	5.7	7.64	9.64	11.57	15.57	19.48	23.48	26.48	29.48	32.38	35.38	35.38	38.38
Head Dla. d2	max nominal	4.0	5.0	6.0	8.00	10.00	12.00	16.00	20.00	24.00	27.00	30.00	33.00	36.00	36.00	39.00
ISO 10642	min.			5.54	7.53	9.43	11.34	15.24	19.22	23.12	26.52	29.01		36.05		
Head Dla. d2	max theoretical			6.72	8.96	11.20	13.44	17.92	22.40	26.88	30.80	33.60		40.32		
ANSI B18.3.5M	min.			5.35	7.80	9.75	11.70	15.65	19.50	23.40	26.18	23.76		34.60		
Head Dia. D2	max theoretical			6.72	8.96	11.20	13.44	17.92	22.40	26.88	30.24	33.60		40.32		
	ISO 10642 & ANSI B18.3.5M use a theoretical value for the max head diameter, which represents the exact diameter of a hole countersunk to exactly 90° in which a screw having the maximum head size will fit flush Refer to full ISO or ANSI standard for more details.															
DIN 7991 Head Height k	max.	1.2	1.5	1.7	2.3	2.8	3.3	4.4	5.5	6.5	7	7.5	8	8.5	13.1	14
ISO 10642 Head Height k	max. = reference			1.86	2.48	3.10	3.72	4.96	6.20	7.44	8.40	8.80		10.16		
ANSI B18.3.5M Head Height k	max. = reference			1.86	2.48	3.10	3.72	4.96	6.20	7.44	8.12	8.80		10.16		
	ISO 10642 & ANSI B18.3.5M show Head Height k as a reference point only Refer to full ISO or ANSI standard for more details.															
			For DI	N 7991 / IS	O 10642 /	ANSI B1	8.3.5M,	the ove	rall lengt	th of the s	crew Incl	udes the h	ead.			
	Nominal Size	1.3	1.5	2	2.5	3	4	5	6	8	10	10	12	12	14	14
DIN 7991 Key Size 8	min.	1.275	1.545	2.02	2.52	3.02	4.02	5.02	6.02	8.025	10.025	10.025	12.032	12.032	14.032	14.032
Ney Size 8	max.	1.300	1.520	2.10	2.60	3.10	4.12	5.14	6.14	8.175	10.175	10.175	12.212	12.212	14.212	14.212
	Nominal Size			2	2.5	3	4	5	6	8	10	10		12		
ISO 10642 Key Size s	min.			2.02	2.52	3.02	4.020	5.02	6.02	8.025	10.025	10.025		12.032		
Ney Size 8	max.			2.06	2.58	3.08	4.095	5.14	6.14	8.175	10.175	10.175		12.212		
4 NO. D40 0 CM	Nominal Size			2	2.5	3	4	5	6	8	10	10		12		
ANSI B18.3.5M Key Size 8	min.			2.020	2.52	3.020	4.020	5.020	6.020	8.025	10.025	10.025		12.032		
noy size o	max.			2.045	2.56	3.071	4.084	5.084	6.095	8.115	10.115	10.115		12.142		
DIN 7991 Key Engagement t	min.	0.75	0.8	0.950	1.55	2.05	2.25	3.2	4.1	4.3	4.5	5.0	5.2	5.6	8.44	9.87
ISO 10642 Key Engagement t	min.			1.100	1.50	1.90	2.20	3.0	3.6	4.3	4.5	4.8		5.6		
ANSI B18.3.5M Key Engagement t	min.			1.100	1.50	1.90	2.20	3.0	3.6	4.3	4.7	4.8		5.6		

Length Tolerance	DIN 7991	/ ISO 10642	ANSI B	18.3.5M	Length Tolerance	DIN 799 106	11/ISO 42	ANSI B	18.3.5M
Nominal Length	min	max	min	max	Nominal Length	min	max	min	max
(4)	3.76	4.24	3.7	4.3	30	29.58	30.42	29.5	30.5
(5)	4.76	5.24	4.7	5.3	35	34.5	35.5	34.5	35.5
(6)	5.76	6.24	5.7	6.3	40	39.5	40.5	39.5	40.5
8	7.71	8.29	7.7	8.3	45	44.5	45.5	44.5	45.5
10	9.71	10.29	9.7	10.3	50	49.5	50.5	49.5	50.5
12	11.65	12.35	11.7	12.3	(55)	54.4	55.6	54.5	55.5
(14)	13.65	14.35	13.7	14.3	60	59.4	60.6	59.5	60.5
16	15.65	16.35	15.7	16.3	(65)	64.4	65.6	64.2	65.8
(18)	17.65	18.35	17.5	18.5	70	69.4	70.6	69.2	70.8
20	19.58	20.42	19.5	20.5	(75)	74.4	75.6	74.2	75.8
(22)	21.58	22.42	21.5	22.5	80	79.4	80.6	79.2	80.8
25	24.58	25.42	24.5	25.5	90	89.3	90.7	89.2	90.8
(28)	27.58	28.42	27.5	28.5	100	99.3	100.7	99.2	100.8

	DIN 75	ANSI B18.3.5M	
Material	Steel	Stainless Steel	Steel
Property Class	10.9	A2 & A4	12.9
Finish	Furnace Black	Plain	Furnace Black
Thread Tolerance	6g	6g	4g6g

*******Notice*******

Diameters and or Lengths shown with () are not shown in some standards are not recommended for use in new design.

*******Notice*******

DIN 7991, ISO 10642, and ANSI B18.3.5M are not 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.