



Datasheet Stock No: 281552

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

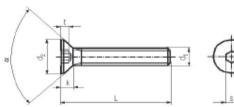


Countersunk socket screws are designed for light duty applications where there is limited space. These screws are widely used in many applications where a strong and reliable joint is required. Typically countersunk socket screws are used to fasten plates and strips of metal to equipment and machinery 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			
Hex Socket Countersunk	Steel	M3	8 mm	281372		
Hex Socket Countersunk	Steel	M3	10 mm	281388		
			_	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		
Hay Saakat Counterounk	Steel	M4	8 mm	004.447		
Hex Socket Countersunk Hex Socket Countersunk			10 mm	281417		
	Steel	M4		281423		
Hex Socket Countersunk	Steel	M4	12 mm	281439		
Hex Socket Countersunk Hex Socket Countersunk	Steel	M4	16 mm	281445		
	Steel	M4	20 mm	292445		
Hex Socket Countersunk	Steel	M4	25 mm	292451		
	01		10			
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		

FLAT HEAD SOCKET CAP SCREWS DIN 7991 / ISO 10642 / ANSI B18.3.5M



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

Thread Size of		(M2)	(M2.5)	M3	M4	MS	МЬ	M8	MIU	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 & ANS	I B18.3.5	M use a	shank len	gth / grip	length fo	rmula to	determ	ine threa	d length.	- Refer to	full ISO o	r ANSI sta	andard fo	r more de	talis.
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 Dia. 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 Dia. 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 B											tandard for			K to exact	iy 30° 11
DIN 7991		1														
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
	max. max reference	1.2	1.5	1.7 1.86	2.3 2.48	2.8 3.10	3.3 3.72	4.4 4.96	5.5 6.20	6.5 7.44	7 8.40	7.5 8.80	8	8.5 10.16	13.1	14
Head Height k ISO 10642		1.2	1.5								-		8		13.1	14
Head Height k ISO 10642 Head Height k ANSI B18.3.5M	max reference max reference		NSI B18.	1.86 1.86 3.5M show	2.48 2.48 / Head He	3.10 3.10 Ight k as	3.72 3.72 a refere	4.96 4.96 nce poli	6.20 6.20	7.44 7.44 Refer to f	8.40 8.12 ull ISO o	8.80 8.80	dard for	10.16 10.16		14
Head Height k ISO 10642 Head Height k ANSI B18.3.5M	max reference max reference		NSI B18.	1.86 1.86 3.5M show	2.48 2.48 / Head He	3.10 3.10 Ight k as	3.72 3.72 a refere	4.96 4.96 nce poli	6.20 6.20	7.44 7.44 Refer to f	8.40 8.12 ull ISO o	8.80 8.80	dard for	10.16 10.16		14
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k	max reference max reference		NSI B18.	1.86 1.86 3.5M show	2.48 2.48 / Head He	3.10 3.10 Ight k as	3.72 3.72 a refere	4.96 4.96 nce poli	6.20 6.20	7.44 7.44 Refer to f	8.40 8.12 ull ISO o	8.80 8.80	dard for	10.16 10.16		14
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k DIN 7991	max reference max reference ISO 10	1642 & Al	NSI B18.3 For DI	1.85 1.85 3.5M show N 7991 / 15	2.48 2.48 / Head He 50 10642 /	3.10 3.10 Ight k as ANSI B1	3.72 3.72 a refere 8.3.5M,	4.96 4.96 nce politithe over	6.20 6.20 nt only rall lengt	7.44 7.44 Refer to f	8.40 8.12 ull ISO or	8.80 8.80 ANSI stan udes the h	dard for read.	10.16 10.16 more det	alis.	14
Head Height k ISO 10642 Head Height k ANSI B18.3.5M	max reference max reference ISO 10 Nominal Size	1.3	NSI B18. For DI 1.5	1.86 1.86 3.5M show N 7991 / IS 2	2.48 2.48 (Head He (O 10642) 2.5	3.10 3.10 Ight k as ANSI B1 3	3.72 3.72 a refere 8.3.5M, 4	4.96 4.96 nce poli the over 5	6.20 6.20 nt only rall lengt 6	7.44 7.44 Refer to t h of the s	8.40 8.12 ull ISO or crew Incl	8.80 8.80 ANSI stan udes the h	dard for 1 ead.	10.16 10.16 more det	alls. 14	
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k DIN 7991 Key Size s	max reference max reference ISO 10 Nominal Size min.	1.3 1.275	NSI B18. For DI 1.5 1.545	1.86 1.86 3.5M show N 7991 / 13 2 2.02	2.48 2.48 (Head He (O 10642) 2.5 2.52	3.10 3.10 Ight k as (ANSI B1 3 3.02	3.72 3.72 a refere 8.3.5M, 4 4.02	4.96 4.96 nce poli the over 5 5.02	6.20 6.20 nt only rall lengt 6 6.02	7.44 7.44 Refer to f h of the s 8.025	8.40 8.12 ull ISO or crew Incl 10 10.025	8.80 8.80 ANSI stan udes the h 10 10.025	dard for ead. 12 12.032	10.16 10.16 more det 12 12.032	alls. 14 14.032	14 14.032
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k DIN 7991 Key Size s ISO 10642	max reference max reference ISO 10 Nominal Size min. max.	1.3 1.275	NSI B18. For DI 1.5 1.545	1.86 1.86 3.5M show N 7991 / IS 2 2.02 2.10	2.48 2.48 (Head He 30 10642) 2.5 2.52 2.52 2.60	3.10 3.10 Ight k as ANSI B1 3 3.02 3.10	3.72 3.72 a refere 8.3.5M, 4 4.02 4.12	4.96 4.96 nce poli the over 5 5.02 5.14	6.20 6.20 nt only rall lengt 6 6.02 6.14	7.44 7.44 Refer to 1 h of the s 8.025 8.175	8.40 8.12 ull ISO or crew Incl 10 10.025 10.175	8.80 8.80 ANSI stan udes the h 10 10.025 10.175	dard for ead. 12 12.032	10.16 10.16 more det: 12 12.032 12.212	alls. 14 14.032	14 14.032
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k DIN 7991 Key Size s	max reference max reference ISO 10 Nominal Size min. max. Nominal Size	1.3 1.275	NSI B18. For DI 1.5 1.545	1.86 1.86 3.5M show N 7991 / IS 2 2.02 2.02 2.10 2	2.48 2.48 (Head He O 10642) 2.5 2.52 2.60 2.5	3.10 3.10 Ight k as ANSI B1 3 3.02 3.10 3	3.72 3.72 a refere 8.3.5M, 4 4.02 4.12 4	4.96 4.96 the over 5 5.02 5.14 5	6.20 6.20 nt only rall lengt 6 6.02 6.14 6	7.44 7.44 Refer to 1 h of the s 8 8.025 8.175 8	8.40 8.12 UII ISO of ICREW INCI 10 10.025 10.175 10	8.80 8.80 ANSI stan udes the h 10 10.025 10.175 10	dard for ead. 12 12.032	10.16 10.16 more det 12 12.032 12.212 12	alls. 14 14.032	14 14.032
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k DIN 7991 Key Size s ISO 10642 Key Size s	max reference max reference ISO 10 Nominal Size min. max. Nominal Size min.	1.3 1.275	NSI B18. For DI 1.5 1.545	1.86 1.86 3.5M show N 7991 / IS 2 2.02 2.02 2.10 2 2.02	2.48 2.48 (Head He (O 10642) 2.5 2.52 2.60 2.5 2.52	3.10 3.10 Ight k as 3.02 3.10 3 3.02 3.10 3.02	3.72 3.72 a refere 8.3.5M, 4 4.02 4.12 4 4.020	4.96 4.96 the over 5 5.02 5.14 5 5.02	6.20 6.20 nt only rall lengt 6 6.02 6.14 6 6.02	7.44 7.44 Refer to 1 h of the s 8 8.025 8.175 8 8.025	8.40 8.12 ull ISO or cerew Incl 10.025 10.175 10.175 10.025	8.80 8.80 ANSI stan udes the h 10 10.025 10.175 10 10.025	dard for ead. 12 12.032	10.16 10.16 12.032 12.032 12.212 12.032	alls. 14 14.032	14 14.032
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k DIN 7991 Key Size s ISO 10642 Key Size s ANSI B18.3.5M	max. = reference max. = reference ISO 10 Nominal Size min. max. Nominal Size min. max.	1.3 1.275	NSI B18. For DI 1.5 1.545	1.86 1.86 3.5M show N 7991 / IS 2 2.02 2.10 2 2.02 2.02 2.06	2.48 2.48 (Head He 0 10642) 2.5 2.52 2.50 2.5 2.52 2.52 2.52 2.58	3.10 3.10 Ight k as ANSI B1 3 3.02 3.10 3 3.02 3.02 3.08	3.72 3.72 a refere 8.3.5M, 4 4.02 4.12 4 4.020 4.095	4.96 4.96 the over 5 5.02 5.14 5 5.02 5.14	6.20 6.20 nt only rall lengt 6 6.02 6.14 6 6.02 6.14	7.44 7.44 Refer to 1 h of the s 8 8.025 8.175 8 8.025 8.175 8 8.025 8.175	8.40 8.12 ull ISO or cerew Incl 10.025 10.175 10.175 10.025 10.175	8.80 8.80 ANSI stan 10 10.025 10.175 10.025 10.175 10.025	dard for ead. 12 12.032	10.16 10.16 12 12.032 12.212 12.032 12.032 12.212	alls. 14 14.032	14 14.032
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k DIN 7991 Key Size s ISO 10642 Key Size s ANSI B18.3.5M Key Size s	max reference max reference ISO 10 Nominal Size min. max. Nominal Size min. Max. Nominal Size	1.3 1.275	NSI B18. For DI 1.5 1.545	1.86 1.86 3.5M show N 7991 / IS 2 2.02 2.10 2 2.02 2.02 2.06 2	2.48 2.48 (Head He 30 10642) 2.5 2.52 2.50 2.5 2.52 2.52 2.58 2.5	3.10 3.10 Ight k as ANSI B1 3.02 3.10 3.02 3.08 3.02 3.08 3.02	3.72 3.72 a refere 8.3.5M, 4 4.02 4.12 4.02 4.020 4.095 4	4.96 4.96 the over 5 5.02 5.14 5 5.02 5.14 5 5.02 5.14 5	6.20 6.20 nt only rall lengt 6 6.02 6.14 6 6.02 6.14 6	7.44 7.44 Refer to 1 h of the s 8.025 8.175 8 8.025 8.175 8 8.175 8	8.40 8.12 10 10.025 10.175 10 10.025 10.175 10.175 10.175 10	8.80 8.80 ANSI stan udes the h 10 10.025 10.175 10.175 10	dard for ead. 12 12.032	10.16 10.16 10.16 12 12.032 12.212 12 12.032 12.212 12.212 12	alls. 14 14.032	14 14.032
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k DIN 7991 Key Size s ISO 10642 Key Size s ANSI B18.3.5M Key Size s DIN 7991 Key Engagement t	max reference max reference ISO 10 Nominal Size min. max. Nominal Size min. Nominal Size min.	1.3 1.275	NSI B18. For DI 1.5 1.545	1.86 1.86 3.5M show N 7991 / IS 2 2.02 2.02 2.02 2.02 2.02 2.02 2.02 2	2.48 2.48 (Head He 30 10642) 2.5 2.52 2.50 2.5 2.52 2.58 2.5 2.52 2.52	3.10 3.10 Ight k as ANSI B1 3.02 3.10 3.02 3.08 3.020	3.72 3.72 a refere 8.3.5M, 4 4.02 4.12 4.020 4.025 4 4.020 4.025	4.96 4.96 the over 5 5.02 5.14 5 5.02 5.14 5 5.02 5.14 5 5.02 5.14	6.20 6.20 nt only rall lengt 6 6.02 6.14 6 6.02 6.14 6 6.02 0.14	7.44 7.44 Refer to 1 h of the s 8.025 8.175 8 8.025 8.175 8 8.025 8.175 8 8.025	8.40 8.12 10 10.025 10.175 10 10.025 10.175 10 10.025 10.175	8.80 8.80 ANSI stan 10 10.025 10.175 10.025 10.175 10.025	dard for ead. 12 12.032	10.16 10.16 more det 12.032 12.212 12.032 12.212 12.032 12.212 12.032	alls. 14 14.032	14 14.032
Head Height k ISO 10642 Head Height k ANSI B18.3.5M Head Height k DIN 7991 Key Size s ISO 10642 Key Size s ANSI B18.3.5M Key Size s DIN 7991 Key	max reference max reference ISO 10 Nominal Size min. max. Nominal Size min. max. Nominal Size min. max.	1.3 1.275 1.300	NSI B18. For Di 1.5 1.545 1.520	1.86 1.86 3.5M show N 7991 / IS 2 2.02 2.10 2 2.02 2.02 2.02 2.02 2.02	2.48 2.48 (Head He 0 10642) 2.5 2.52 2.60 2.5 2.52 2.52 2.58 2.5 2.52 2.52 2.52 2	3.10 3.10 Ight k as ANSI B1 3.02 3.10 3.02 3.08 3.020 3.071	3.72 3.72 a refere 8.3.5M, 4 4.02 4.12 4.02 4.020 4.025 4 4.020 4.020 4.025	4.96 4.96 nce poli the over 5 5.02 5.14 5 5.02 5.14 5 5.02 5.14 5 5.02 5.14 5 5.02 5.14 5 5.02 5.14	6.20 6.20 nt only rall lengt 6 6.02 6.14 6 6.02 6.14 6 6.02 6.14 6 6.02 0 6.09 5	7.44 7.44 Refer to 1 h of the s 8.025 8.175 8 8.025 8.175 8 8.025 8.115	8.40 8.12 ull ISO or crew Incl 10 10.025 10.175 10.025 10.175 10 10.025 10.115	8.80 8.80 ANSI stan udes the h 10 10.025 10.175 10.025 10.175 10.025 10.175 10.115	dard for ead. 12.032 12.212	10.16 10.16 12.032 12.212 12.12 12.032 12.212 12.032 12.032 12.142	14 14.032 14.212	14 14.032 14.212

Length Tolerance	DIN 7991	7991 / ISO 10642 /		18.3.5M	Length Tolerance	DIN 7991 / ISO 10642		ANSI B18.3.5M		
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 7991 / ISC			10642	ANSI B18.3		.5M		
Material		Stee	Steel S		itainiess Steel	Steel				
Property Class	Property Class		10.9		A2 & A4	12.9				
Finish		Furnace	Black		Plain	Fur	nace Bla	ick		
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.