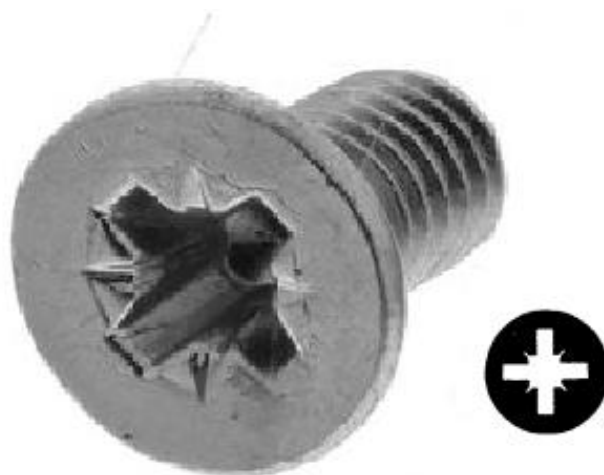


# Datasheet

**RS Stock No: 553475**

## **Clear Passivated, Bright Zinc Plated Steel Countersunk Head Machine Screws: Metric Thread**



Countersunk, also known as flat head machine screws, are designed for ease of assembly and these particular machine screws with their cross recess drives are a popular driving method with this type of fastener, as they allow the head to sink into the material. Machine screws can be used in pre-tapped holes or used with conforming nuts and washers in through holes.

- Clear Passivated, Bright Zinc Plated Steel
- Cross recess drive type
- Threaded in accordance with DIN 965 standard
- Suitable for light fastening applications in facilities maintenance and electronic & domestic applications
- Typical applications include; PCB prototyping, circuit board mounting and general repair and maintenance
- Requires a Phillips screwdriver

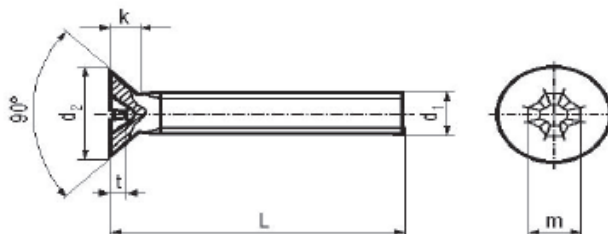


**ENGLISH**

Please view our range listing below for more Clear Passivated, Zinc Plated Steel, Countersunk Head Machine Screws:

Head Shape	Drive Type	Material	Thread Size	Length	RS Part No.
Countersunk	Cross	Zinc Plated Steel	M3	6 mm	553396
Countersunk	Cross	Zinc Plated Steel	M3	12 mm	553403
Countersunk	Cross	Zinc Plated Steel	M3	20 mm	553419
Countersunk	Cross	Zinc Plated Steel	M4	12 mm	553425
Countersunk	Cross	Zinc Plated Steel	M4	16 mm	553431
Countersunk	Cross	Zinc Plated Steel	M4	20 mm	553447
Countersunk	Cross	Zinc Plated Steel	M4	25 mm	553453
Countersunk	Cross	Zinc Plated Steel	M5	12 mm	553469
Countersunk	Cross	Zinc Plated Steel	M5	16 mm	553475
Countersunk	Cross	Zinc Plated Steel	M5	20 mm	553481
Countersunk	Cross	Zinc Plated Steel	M5	25 mm	553497
Countersunk	Cross	Zinc Plated Steel	M6	12 mm	553504
Countersunk	Cross	Zinc Plated Steel	M6	16 mm	553510
Countersunk	Cross	Zinc Plated Steel	M6	20 mm	553526
Countersunk	Cross	Zinc Plated Steel	M6	25 mm	553532
Countersunk	Cross	Zinc Plated Steel	M6	40 mm	553548

## FLAT HEAD PHILLIPS MACHINE SCREWS DIN 965 / ISO7046 / JIS B 1111 / ANSI B 18.16.7 M



Head Diameter (d2)	Size d1	M2		M2.6		M3		(M3.6)		M4		M5		M6		M8		M9		M10	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Standard		3.50	3.90	4.40	4.70	5.20	5.60	6.14	6.50	7.14	7.50	8.84	9.20	10.57	11.00	14.07	14.50	17.57	18.00		
DIN 965 (1990)		3.50	3.90	4.40	4.70	5.20	5.60	6.14	6.50	7.14	7.50	8.84	9.20	10.57	11.00	14.07	14.50	17.57	18.00		
ISO 7046 (1994)		3.50	3.90	4.40	4.70	5.20	5.60	6.14	6.50	7.14	7.50	8.84	9.20	10.57	11.00	14.07	14.50	17.57	18.00		
JIS B 1111 (1977)		4.00	4.60	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	10.00	11.30	12.00	15.20	16.00					
ANSI B 18.16.7 M (1986)		3.50		4.40		5.20		6.50		8.00		8.90		10.90		15.40		17.90			

Head Height (k)	Size d1	M2		M2.6		M3		(M3.6)		M4		M5		M6		M8		M9		M10	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Standard		1.20		1.50		1.65		1.93		2.20		2.50		3.00		4.00		4.00		5.00	
DIN 965 (1990)		1.20		1.50		1.65		1.93		2.20		2.50		3.00		4.00		4.00		5.00	
ISO 7046 (1994)		1.20		1.50		1.65		2.35		2.70		2.70		3.30		4.65		4.65		5.00	
JIS B 1111 (1977)		1.00	1.20	1.25	1.45	1.45	1.75	1.70	2.00	2.00	2.30	2.50	3.00	3.40	4.00	4.40					
ANSI B 18.16.7 M (1986)		1.20		1.50		1.70		2.30		2.70		2.70		3.30		4.60		5.00			

Cross Recess Size (m)	Size d1	M2		M2.6		M3		(M3.6)		M4		M5		M6		M8		M9		M10	
Standard																					
DIN 965 (1990)				1						2				3		4					
ISO 7046 (1994)		0		1						2				3		4					
JIS B 1111 (1977)				1		1				2				3		3					
ANSI B 18.16.7 M (1986)		0		1		1				2				3		4					

Cross Recess Penetration (t)	Size d1	M2		M2.6		M3		(M3.6)		M4		M5		M6		M8		M9		M10	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Standard		0.95	1.25	1.25	1.55	1.50	1.80	1.40	1.90	1.90	2.40	2.10	2.60	2.80	3.30	3.90	4.40	4.80	5.30		
DIN 965 (1990)		0.95	1.25	1.40	1.80	1.70	2.10	1.90	2.40	2.10	2.60	2.70	3.20	3.00	3.50	4.00	4.60	5.10	5.70		
ISO 7046 (1994)		0.95	1.20	1.40	1.80	1.70	2.10	1.90	2.40	2.10	2.60	2.70	3.20	3.00	3.50	4.00	4.60	5.10	5.70		
JIS B 1111 (1977)		0.65	1.01	1.05	1.42	0.91	1.43	1.40	1.93	1.79	2.33	2.38	2.93	2.70	3.25	4.35	4.35				
ANSI B 18.16.7 M (1986)		1.25	1.55	1.40	1.80	1.70	2.10	1.70	2.20	2.10	2.60	2.70	3.20	3.00	3.50	4.00	4.60	5.10	5.70		

Length Tolerance	DIN965/ISO7046	
Nominal Length	min	max
2		
2.5		
3	2.80	3.20
4	3.75	4.24
5	4.75	5.24
6	5.75	6.24
8	7.71	8.29
10	9.71	10.29
12	11.65	12.35
(14)	13.65	14.35
16	15.65	16.35
(18)	17.65	18.35
20	19.58	20.42
(22)	21.58	22.42
25	23.58	25.42
(28)	27.58	28.42
30	29.58	30.42
35	34.50	35.50
40	39.50	40.50
45	44.50	45.50
50	49.50	50.50
(55)	54.05	55.95
60	59.05	60.95
(65)	64.05	65.95
70	69.05	70.95
(75)	74.05	75.95
80	79.05	80.95
90	89.30	91.10

JIS B 1111					
min	max	min	max	min	max
1.7	2				
2.7	3				
3.7	4				
4.6	5	4.4	5	4.2	5
5.6	6	5.4	6	5.2	6
7.5	8	7.4	8	7.2	8
8.5	10	9.4	10	9.2	10
11.4	12	11.4	12	11	12
15.4	16	15.4	16	15	16
19.4	20	19.4	20	19	20
24.2	25	24.2	25	24	25
29.2	30	29.2	30	29	30
34.2	35	34.2	35	34	35
39.2	40	39.2	40	39	40
		44	45	44	45
		49	50	49	50
		54	55	54	55
				59	60
				64	66
				69	70
				75	80
				89	90

ANSI B 18.16.7 M	
min	max
3.3	2.7
2.8	3.2
3.7	4.3
4.7	5.3
5.7	6.3
7.7	8.3
9.7	10.3
11.7	12.3
15.7	16.3
19.5	20.5
24.5	25.5
29.5	30.5
34.5	35.5
39.5	40.5
44.5	45.5
49.5	50.5
54	56
59	61
64	66
69	71
75	81
89	91

Diameters & Lengths With ( ) are not recommended for new design.			
Thread Pitch	Thread Tolerance Plain 6g		
Dia	Pitch	Thread Tolerance Flated 6h	
M1.6	0.35	Thread Tolerance Stainless 6g	
M2	0.4		
M2.5	0.45	Material	4.8 AZ-A4
(M2.6)	0.45	Tensile Strength	60900 72500-101500
M3	0.5		
(M3.5)	0.6	Yield Strength	49300 30450-65250
M4	0.7		
M5	0.8	Hardness	HRB 71-99.5 NA
M6	1		
(M8)	1.25		
(M10)	1.5	Property Class	Steel 4.8 Stainless Steel AZ-A4
		Finish	Plain /Plated Plain

DIN 965 (1990)	Do Not Specify A Minimum Head Height
ISO 7046 (1994)	
ANSI B 18.16.7 M (1986)	

For Machine Screws, The Letter A After The DIN Number Indicates Full Thread. Unless Requested, All Machine Screws Are Supplied As Full Thread, Therefore We Omit The A.