

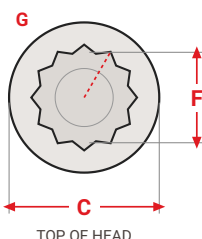
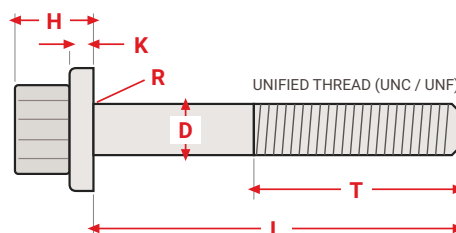


PRODUCT DATA SHEET

12 Point Flange Cap Screws – Inch Series

Also known as **Ferry Cap Screws** or 12 point flange screws

1.0 Dimensions Inches



Nominal Product Diameter	D		C		F		G	Socket Wrench Size	H	K		R		T
	Body Diameter		Flange Diameter		Width Across Flats		Width Across Corners		Head Height	Flange Thickness		Fillet Radius		Thread Length
	Max	Min	Max	Min	Max	Min	Min		Max	Max	Min	Max	Min	Min
1/4	0.2500	0.2435	0.375	0.365	0.252	0.244	0.278	1/4	0.250	0.088	0.068	0.014	0.009	1.000
5/16	0.3125	0.3053	0.469	0.457	0.315	0.306	0.348	5/16	0.312	0.119	0.099	0.017	0.012	1.125
3/8	0.3750	0.3678	0.562	0.550	0.377	0.368	0.420	3/8	0.375	0.166	0.146	0.020	0.015	1.250
7/16	0.4375	0.4294	0.656	0.642	0.438	0.429	0.489	7/16	0.438	0.197	0.177	0.023	0.018	1.375
1/2	0.5000	0.4919	0.750	0.735	0.502	0.493	0.562	1/2	0.500	0.228	0.208	0.026	0.020	1.500
9/16	0.5625	0.5541	0.844	0.828	0.566	0.558	0.637	9/16	0.563	0.228	0.208	0.030	0.020	1.620
5/8	0.6250	0.6163	0.938	0.921	0.627	0.618	0.705	5/8	0.625	0.275	0.255	0.032	0.024	1.750
3/4	0.7500	0.7406	1.125	1.107	0.752	0.743	0.847	3/4	0.750	0.338	0.318	0.039	0.030	2.000
7/8	0.8750	0.8647	1.312	1.293	0.877	0.866	0.987	7/8	0.875	0.353	0.333	0.044	0.034	2.250
1	1.0000	0.9886	1.500	1.479	1.003	0.991	1.130	1	1.000	0.416	0.396	0.050	0.040	2.500
1-1/8	1.1250	1.1086	1.688	1.665	1.128	1.115	1.271	1-1/8	1.125	0.447	0.428	0.055	0.045	2.750
1-1/4	1.2500	1.2336	1.875	1.852	1.253	1.240	1.414	1-1/4	1.250	0.494	0.474	0.060	0.050	3.000
1-1/2	1.5000	1.4818	2.250	2.224	1.503	1.489	1.697	1-1/2	1.500	0.604	0.584	0.070	0.060	3.500

Dimension notes:

- Thread class of fit – 1/4" through 1": UNC / UNF Class 3A. 1-1/8" through 1-1/2": UNC / UNF Class 2A.
- L is measured from under the flange to the end of the screw. T is the minimum thread length; shorter screws are threaded close to the flange.
- Head contour and an optional indent on the top of the head vary by manufacturer.

2.0 Mechanical Properties Alloy steel, plain finish

Property	Requirement
Material	Alloy steel, heat treated
Hardness	HRC 37 to 43
Tensile Strength	170,000 psi min.
Yield Strength	153,000 psi min.
Proof Load	140,000 psi min.

Heads carry the manufacturer's identification mark. Use a 12 point socket of the size shown in the dimension table.

3.0 Surface Finish

Properties	Thermal Black with Oil
Type	Thermal black finish from heat treatment, with a rust preventive oil
Color	Black
Corrosion Resistance	Light; for indoor or lubricated assemblies. Keep dry or oiled in storage.

4.0 Sizes Stocked by Nutty • = in stock online at nutty.com

Thread	1/2"	5/8"	3/4"	7/8"	1"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	3"	3-1/2"	4"
1/4-20	•	•	•	•		•	•		•						
5/16-18	•		•	•	•	•	•		•						
3/8-16			•		•	•	•	•	•						
7/16-14						•	•		•	•	•				
1/2-13					•	•	•	•	•	•	•		•		
5/8-11							•	•	•	•	•	•	•	•	•
3/4-10							•		•		•		•	•	
1/4-28			•		•	•	•	•							
5/16-24			•	•	•		•		•						
3/8-24					•	•	•	•	•						
1/2-20						•	•	•	•	•	•				
5/8-18							•		•						

Coarse (UNC) threads on top, fine (UNF) below. Other diameters, lengths and finishes are available on request.

Disclaimer: The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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