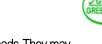
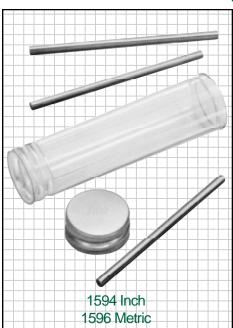
Thread Wires

Measuring Wire Sets

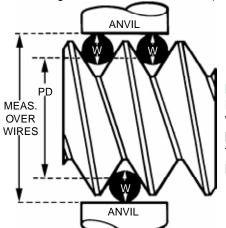
Inch and Metric Sizes





These wires are the best sizes for standard 60° inch and metric threads. They may be used with other thread forms or with special pitches, constants for which may be calculated from the formula shown below.

The formula for determining wire constants for all 60° threads = 3W - .866025P. They are made from selected high speed steel, are extremely accurate in roundness and straightness and are within .00020" (20 millionths) of exact size.



Formula Values

= Pitch Diameter

W = Diameter of Wire

Mw = Measurement over Wires Tangent Helix Angle = Lead / 3.1416E

= Threads per inch

The most accurate and universally recognized method obtaining pitch diameter measurements of thread plug or setting plug gages is by means of using three hardened steel measuring wires laid into opposite sides of the thread, as shown in the diagram. Precise measurements with proper pressures over these wires minus the appropriate constant equals the measured pitch diameter.

				t	
Threads	Best Size				
Per	Wire	Constant	1594	Price	
Inch	Inches W	Inches	EDP No.	Set / 3	
100	.00577	.00865	701229	81.00	
96	.00601	.00901	701230	81.00	
90	.00642	.00964	701231	81.00	
80	.00722	.01083	701232	81.00	
72	.00802	.01203	701233	81.00	
64	.00902	.01353	701234	71.00	
56	.01031	.01547	701235	71.00	
48	.01203	.01805	701237	61.00	
44	.01312	.01968	701238	61.00	
40	.01443	.02164	701239	61.00	
36	.01604	.02406	701240	42.00	
32	.01804	.02706	701241	42.00	
28	.02062	.03093	701243	42.00	
24	.02406	.03610	701246	42.00	
20	.02887	.04331	701248	42.00	
18	.03208	.04813	701249	42.00	
16	.03608	.05411	701250	42.00	
14	.04124	.06186	701251	42.00	
13	.04441	.06661	701252	42.00	
12	.04811	.07216	701253	42.00	
11-1/2	.05020	.07529	701254	42.00	
11	.05249	.07874	701255	42.00	
10	.05774	.08662	701256	42.00	
9	.06415	.09622	701257	42.00	
8	.07217	.10826	701258	42.00	
7	.08248	.12372	701260	42.00	
6	.09623	.14435	701261	42.00	
5-1/2	.10497	.15745	701262	72.00	
5	.11547	.17320	701263	72.00	
4-1/2	.12830	.19245	701264	72.00	
4	.14434	.21651	701265	72.00	

Pitch Best Wire		re Sizes	Constant		1596	Price	
mm	Inches	mm	Inches	mm	Inches	EDP No.	(set / 3)
0.25	.00984	.1130	.00568	.2165	.00852	701306	90.00
0.3	.01181	.1732	.00682	.2596	.01023	701307	90.00
0.35	.01378	.2021	.00796	.3031	.01193	701308	90.00
0.4	.01575	.2309	.00909	.3464	.01364	701309	90.00
0.45	.01772	.2598	.01023	.3897	.01534	701310	80.00
0.5	.01969	.2887	.01137	.4330	.01705	701311	80.00
0.6	.02362	.3464	.01364	.5196	.02046	701312	67.00
0.7	.02756	.4041	.01591	.6062	.02387	701313	67.00
0.75	.02953	.4330	.01705	.6495	.02557	701314	46.00
0.8	.03150	.4619	.01818	.6928	.02728	701315	46.00
0.9	.03543	.5196	.02046	.7794	.03069	701316	46.00
1	.03937	.5774	.02273	.8660	.03410	701317	46.00
1.25	.04921	.7217	.02841	1.0825	.04262	701318	46.00
1.5	.05906	.8660	.03410	1.2990	.05114	701319	46.00
1.75	.06890	1.0104	.03978	1.5155	.05967	701320	46.00
2	.07874	1.1547	.04546	1.7321	.06819	701321	46.00
2.5	.09843	1.4434	.05683	2.1651	.08524	701322	46.00
3	.11811	1.7321	.06819	2.5981	.10229	701323	46.00
3.5	.13780	2.0207	.07956	3.0311	.11933	701411	46.00
4	.15748	2.3094	.09092	3.4641	.13638	701412	46.00
4.5	.17717	2.5981	.10229	3.8971	.15343	701413	80.00
5	.19685	2.8868	.11365	4.3301	.17048	701414	80.00
5.5	.21654	3.1754	.12502	4.7631	.18753	701415	80.00
6	.23622	3.4641	.13638	5.1962	.20457	701416	80.00

Thread Measuring Wire Sets

Wood case with upright vials

Description	EDP No.	Price
Set No. 20, inches: Sizes 6-36 inclusive, except 7-1/2 and 22 pitches.	39688	752.00
Set No. 30, inches: Sizes 5-80 inclusive, expect 7-1/2 and 22 pitches.	39689	1408.00
Set No. 23mm, metric: 23 sizes from 0.3mm pitch thru 6.00mm pitch.	39690	1191.00
Set No. 30mm, metric; 30 sizes form 0.2mm thru 10.00mm pitch.	39691	1675.00

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