

UNC-UNF-UNS-UNEF Thread Combinations

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External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
0-80 UNF	2A	.0595	.0563	.0514	.0496	.0072	.0622	.0604	.0446	0-80 UNF	2B	.0465	.0514	.0519	.0542	.0600
	3A	.0600	.0568	.0519	.0506		.0627	.0614	.0451		3B	.0465	.0514	.0519	.0536	.0600
1-64 UNC	2A	.0724	.0686	.0623	.0603	.0090	.0758	.0738	.0538	1-64 UNC	2B	.0561	.0623	.0629	.0655	.0730
	3A	.0730	.0692	.0629	.0614		.0764	.0749	.0544		3B	.0561	.0623	.0629	.0648	.0730
1-72 UNF	2A	.0724	.0689	.0634	.0615	.0080	.0754	.0735	.0559	1-72 UNF	2B	.0580	.0635	.0640	.0665	.0730
	3A	.0730	.0695	.0640	.0626		.0760	.0746	.0565		3B	.0580	.0635	.0640	.0659	.0730
2-56 UNC	2A	.0854	.0813	.0738	.0717	.0103	.0892	.0871	.0642	2-56 UNC	2B	.0667	.0737	.0744	.0772	.0860
	3A	.0860	.0819	.0744	.0728		.0899	.0883	.0648		3B	.0667	.0737	.0744	.0765	.0860
2-64 UNF	2A	.0854	.0816	.0753	.0733	.0090	.0888	.0867	.0668	2-64 UNF	2B	.0691	.0753	.0759	.0786	.0860
	3A	.0860	.0822	.0759	.0744		.0894	.0879	.0674		3B	.0691	.0753	.0759	.0779	.0860
3-48 UNC	2A	.0983	.0938	.0848	.0825	.0120	.1028	.1005	.0734	3-48 UNC	2B	.0764	.0845	.0855	.0885	.0990
	3A	.0990	.0945	.0855	.0838		.1035	.1018	.0741		3B	.0764	.0845	.0855	.0877	.0990
3-56 UNF	2A	.0983	.0942	.0867	.0845	.0103	.1022	.1000	.0771	3-56 UNF	2B	.0797	.0865	.0874	.0902	.0990
	3A	.0990	.0949	.0874	.0858		.1029	.1012	.0778		3B	.0797	.0865	.0874	.0895	.0990
4-40 UNC	2A	.1112	.1061	.0950	.0925	.0144	.1167	.1142	.0814	4-40 UNC	2B	.0849	.0939	.0958	.0991	.1120
	3A	.1120	.1069	.0958	.0939		.1174	.1155	.0822		3B	.0849	.0939	.0958	.0982	.1120
4-48 UNF	2A	.1113	.1068	.0978	.0954	.0120	.1158	.1134	.0864	4-48 UNF	2B	.0894	.0968	.0985	.1016	.1120
	3A	.1120	.1075	.0985	.0967		.1165	.1147	.0871		3B	.0894	.0968	.0985	.1008	.1120
5-40 UNC	2A	.1242	.1191	.1080	.1054	.0144	.1296	.1271	.0944	5-40 UNC	2B	.0979	.1062	.1088	.1121	.1250
	3A	.1250	.1199	.1088	.1069		.1304	.1285	.0952		3B	.0979	.1062	.1088	.1113	.1250
5-44 UNF	2A	.1243	.1195	.1095	.1070	.0131	.1292	.1267	.0972	5-44 UNF	2B	.1004	.1079	.1102	.1134	.1250
	3A	.1250	.1202	.1102	.1083		.1299	.1281	.0979		3B	.1004	.1079	.1102	.1126	.1250
6-32 UNC	2A	.1372	.1312	.1169	.1141	.0180	.1439	.1411	.1000	6-32 UNC	2B	.1040	.1140	.1177	.1214	.1380
	3A	.1380	.1320	.1177	.1156		.1448	.1427	.1008		3B	.1040	.1140	.1177	.1204	.1380
6-40 UNF	2A	.1372	.1321	.1210	.1184	.0144	.1426	.1400	.1074	6-40 UNF	2B	.1110	.1190	.1218	.1252	.1380
	3A	.1380	.1329	.1218	.1198		.1434	.1415	.1082		3B	.1110	.1186	.1218	.1243	.1380
8-32 UNC	2A	.1631	.1571	.1428	.1399	.0180	.1699	.1670	.1259	8-32 UNC	2B	.1300	.1390	.1437	.1475	.1640
	3A	.1640	.1580	.1437	.1415		.1708	.1686	.1268		3B	.1300	.1389	.1437	.1465	.1640
8-36 UNF	2A	.1632	.1577	.1452	.1424	.0160	.1692	.1664	.1301	8-36 UNF	2B	.1340	.1420	.1460	.1496	.1640
	3A	.1640	.1585	.1460	.1439		.1700	.1679	.1309		3B	.1340	.1416	.1460	.1487	.1640

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External Threads										Internal Threads								
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter		
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min		Max	Min
10-24 UNC	2A	.1890	.1818	.1619	.1586	.0241	.1980	.1947	.1394	10-24 UNC	2B	.1450	.1560	.1629	.1672	.1900		
	3A	.1900	.1828	.1629	.1604		.1990	.1965				.1404	3B	.1450	.1555		.1629	.1661
10-28 UNS	.0000	.1890	.1825	.1658	.1625	.0206	.1967	.1934	.1464	10-28 UNS	.0000	.1510	.1600	.1668	.1711	.1900		
10-32 UNF	2A	.1891	.1831	.1688	.1658	.0180	.1959	.1929	.1519	10-32 UNF	2B	.1560	.1640	.1697	.1736	.1900		
	3A	.1900	.1840	.1697	.1674		.1968	.1945				.1528	3B	.1560	.1641		.1697	.1726
10-36 UNS	.0000	.1891	.1836	.1711	.1681	.0160	.1951	.1921	.1560	10-36 UNS	.0000	.1600	.1660	.1720	.1759	.1900		
10-40 UNS	.0000	.1891	0.18	.1729	.1700	.0144	.1946	.1917	.1592	10-40 UNS	.0000	.1630	.1690	.1738	.1775	.1900		
10-48 UNS	.0000	.1892	.1847	.1757	.1731	.0120	.1937	.1911	.1644	10-48 UNS	.0000	.1670	.1720	.1765	.1799	.1900		
10-56 UNS	.0000	.1893	.1852	.1777	.1752	.0103	.1931	.1906	.1681	10-56 UNS	.0000	.1710	.1750	.1784	.1816	.1900		
12-24 UNC	2A	.2150	.2078	.1879	.1845	.0241	.2240	.2206	.1654	12-24 UNC	2B	.1710	.1810	.1889	.1933	.2160		
	3A	.2160	.2088	.1889	.1863		.2250	.2225				.1664	3B	.1710	.1807		.1889	.1922
12-28 UNF	2A	.2150	.2085	.1918	.1886	.0206	.2228	.2195	.1724	12-28 UNF	2B	.1770	.1860	.1928	.1970	.2160		
	3A	.2160	.2095	.1928	.1904		.2237	.2213				.1734	3B	.1770	.1857		.1928	.1959
12-32 UNEF	2A	.2151	.2091	.1948	.1917	.0180	.2218	.2186	.1779	12-32 UNEF	2B	.1820	.1900	.1957	.1998	.2160		
	3A	.2160	.2100	.1957	.1933		.2228	.2204				.1788	3B	.1820	.1895		.1957	.1988
12-36 UNS	.0000	.2151	.2096	.1971	.1941	.0160	.2211	.2181	.1821	12-36 UNS	.0000	.1860	.1920	.1980	.2019	.2160		
12-40 UNS	.0000	.2151	.2100	.1989	.1960	.0144	.2205	.2177	.1835	12-40 UNS	.0000	.1890	.1950	.1998	.2035	.2160		
12-48 UNS	.0000	.2152	0.21	.2017	.1991	.0120	.2197	.2170	.1904	12-48 UNS	.0000	.1930	.1980	.2025	.2059	.2160		
12-56 UNS	.0000	.2153	.2112	.2037	.2012	.0103	.2191	.2166	.1941	12-56 UNS	.0000	.1970	.2010	.2044	.2076	.2160		
14-20 UNC	1A	.2489	.2367	.2164	.2108	.0289	.2597	.2541	.1894	14-20 UNC	1B	.1960	.2070	.2175	.2248	.2500		
	2A	.2489	.2408	.2164	.2127		.2597	.2560				.1894	2B	.1960	.2070		.2175	.2224
	3A	.2500	.2419	.2175	.2147		.2608	.2580				.1905		3B	.1960		.2067	.2175
14-24 UNS	.0000	.2489	.2417	.2218	.2181	.0241	.2579	.2543	.1993	14-24 UNS	.0000	.2050	.2150	.2229	.2277	.2500		
14-27 UNS	.0000	.2490	.2423	.2249	.2214	.0214	.2570	.2535	.2049	14-27 UNS	.0000	.2100	.2190	.2259	.2304	.2500		
14-28 UNF	1A	.2490	.2392	.2258	.2208	.0206	.2567	.2518	.2064	14-28 UNF	1B	.2110	.2200	.2268	.2333	.2500		
	2A	.2490	.2425	.2258	.2225		.2567	.2534				.2064	2B	.2110	.2200		.2268	.2311
	3A	.2500	.2435	.2268	.2243		.2577	.2552				.2074		3B	.2110		.2190	.2268
14-32 UNEF	2A	.2490	.2430	.2287	.2255	.0180	.2558	.2526	.2118	14-32 UNEF	2B	.2160	.2240	.2297	.2339	.2500		
	3A	.2500	.2440	.2297	.2273		.2568	.2543				.2128	3B	.2160	.2229		.2297	.2328

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
14-36 UNS	2A	.2491	.2436	.2311	.2280	.0160	.2551	.2520	.2161	14-36 UNS	2B	.2200	.2260	.2320	.2360	.2500
14-40 UNS	2A	.2491	.2440	.2329	.2300	.0144	.2545	.2516	.2193	14-40 UNS	2B	.2230	.2290	.2338	.2376	.2500
14-48 UNS	2A	.2492	.2447	.2357	.2330	.0120	.2537	.2510	.2243	14-48 UNS	2B	.2270	.2320	.2365	.2401	.2500
14-56 UNS	2A	.2492	.2451	.2376	.2350	.0103	.2531	.2505	.2280	14-56 UNS	2B	.2310	.2350	.2384	.2417	.2500
516-18 UNC	1A	.3113	.2982	.2752	.2691	.0321	.3233	.3173	.2452	516-18 UNC	1B	.2520	.2650	.2764	.2843	.3125
	2A	.3113	.3026	.2752	.2712		.3233	.3193	.2452		2B	.2520	.2650	.2764	.2817	.3125
	3A	.3125	.3038	.2764	.2734		.3245	.3215	.2464		3B	.2520	.2630	.2764	.2803	.3125
516-20 UN	2A	.3113	.3032	.2788	.2748	.0289	.3221	.3180	.2518	516-20 UN	2B	.2580	.2700	.2800	.2852	.3125
	3A	.3125	.3044	.2800	.2770		.3233	.3203	.2530		3B	.2580	.2680	.2800	.2839	.3125
516-24 UNF	1A	.3114	.3006	.2843	.2788	.0241	.3204	.3149	.2618	516-24 UNF	1B	.2670	.2770	.2854	.2925	.3125
	2A	.3114	.3042	.2843	.2806		.3204	.3168	.2618		2B	.2670	.2770	.2854	.2902	.3125
	3A	.3125	.3053	.2854	.2827		.3215	.3188	.2629		3B	.2670	.2754	.2854	.2890	.3125
516-27 UNS	2A	.3115	.3048	.2874	.2839	.0214	.3195	.3159	.2674	516-27 UNS	2B	.2720	.2810	.2884	.2929	.3125
516-28 UN	2A	.3115	.3050	.2883	.2849	.0206	.3192	.3157	.2689	516-28 UN	2B	.2740	.2820	.2893	.2937	.3125
	3A	.3125	.3060	.2893	.2867		.3202	.3176	.2699		3B	.2740	.2807	.2893	.2926	.3125
516-32 UNEF	2A	.3115	.3055	.2912	.2880	.0180	.3183	.3150	.2743	516-32 UNEF	2B	.2790	.2860	.2922	.2964	.3125
	3A	.3125	.3065	.2922	.2898		.3193	.3168	.2753		3B	.2790	.2847	.2922	.2953	.3125
516-36 UNS	2A	.3116	.3061	.2936	.2905	.0160	.3176	.3144	.2785	516-36 UNS	2B	.2820	.2890	.2945	.2985	.3125
516-40 UNS	2A	.3116	.3065	.2954	.2925	.0144	.3170	.3140	.2818	516-40 UNS	2B	.2850	.2910	.2963	.3001	.3125
516-48 UNS	2A	.3117	.3072	.2982	.2955	.0120	.3162	.3134	.2869	516-48 UNS	2B	.2900	.2950	.2990	.3026	.3125
38-16 UNC	1A	.3737	.3595	.3331	.3266	.0361	.3872	.3807	.2992	38-16 UNC	1B	.3070	.3210	.3344	.3429	.3750
	2A	.3737	.3643	.3331	.3287		.3872	.3829	.2992		2B	.3070	.3210	.3344	.3401	.3750
	3A	.3750	.3656	.3344	.3311		.3885	.3853	.3005		3B	.3070	.3182	.3344	.3387	.3750
38-18 UNS	2A	.3737	.3650	.3376	.3333	.0321	.3857	.3814	.3076	38-18 UNS	2B	.3150	.3280	.3389	.3445	.3750
38-20 UN	2A	.3738	.3657	.3413	.3372	.0289	.3846	.3805	.3143	38-20 UN	2B	.3210	.3320	.3425	.3479	.3750
	3A	.3750	.3669	.3425	.3394		.3858	.3827	.3155		3B	.3210	.3297	.3425	.3465	.3750

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
3/8-24 UNF	1A	.3739	.3631	.3468	.3411				.3243	3/8-24 UNF	1B	.3300	.3400	.3479	.3553	.3750
	2A	.3739	.3667	.3468	.3430				.3243		2B	.3300	.3400	.3479	.3528	.3750
3/8-24 UNF	3A	.3750	.3678	.3479	.3450				.3254	3/8-24 UNF	3B	.3300	.3372	.3479	.3516	.3750
3/8-27 UNS	2A	.3739	.3672	.3498	.3462				.3298	3/8-27 UNS	2B	.3350	.3440	.3509	.3556	.3750
3/8-28 UN	2A	.3739	.3674	.3507	.3471				.3313	3/8-28 UN	2B	.3360	.3450	.3518	.3564	.3750
	3A	.3750	.3685	.3518	.3491				.3324		3B	.3360	.3426	.3518	.3553	.3750
3/8-32 UNEF	2A	.3740	.3680	.3537	.3503				.3368	3/8-32 UNEF	2B	.3410	.3490	.3547	.3591	.3750
	3A	.3750	.3690	.3547	.3522				.3378		3B	.3410	.3469	.3547	.3580	.3750
3/8-36 UNS	2A	.3740	.3685	.3560	.3528				.3409	3/8-36 UNS	2B	.3450	.3520	.3570	.3612	.3750
3/8-40 UNS	2A	.3741	.3690	.3579	.3548				.3443	3/8-40 UNS	2B	.3480	.3540	.3588	.3628	.3750
3/90-27 UNS	2A	.3889	.3822	.3648	.3612				.3448	3/90-27 UNS	2B	.3500	.3590	.3659	.3706	.3900
7/16-14 UNC	1A	.4361	.4206	.3897	.3826				.3511	7/16-14 UNC	1B	.3600	.3760	.3911	.4003	.4375
	2A	.4361	.4258	.3897	.3850				.3511		2B	.3600	.3760	.3911	.3972	.4375
	3A	.4375	.4272	.3911	.3876				.3525		3B	.3600	.3717	.3911	.3957	.4375
7/16-16 UN	2A	.4361	.4267	.3955	.3909				.3616	7/16-16 UN	2B	.3700	.3840	.3969	.4028	.4375
	3A	.4375	.4281	.3969	.3935				.3630		3B	.3700	.3800	.3969	.4014	.4375
7/16-18 UNS	2A	.4362	.4275	.4001	.3958				.3701	7/16-18 UNS	2B	.3770	.3900	.4014	.4070	.4375
7/16-20 UNF	1A	.4362	.4240	.4037	.3975				.3767	7/16-20 UNF	1B	.3830	.3950	.4050	.4131	.4375
	2A	.4362	.4281	.4037	.3995				.3767		2B	.3830	.3950	.4050	.4104	.4375
	3A	.4375	.4294	.4050	.4019				.3780		3B	.3830	.3916	.4050	.4091	.4375
7/16-24 UNS	2A	.4364	.4292	.4093	.4055				.3868	7/16-24 UNS	2B	.3920	.4020	.4104	.4153	.4375
7/16-27 UNS	2A	.4364	.4297	.4123	.4087				.3923	7/16-27 UNS	2B	.3970	.4060	.4134	.4181	.4375
7/16-28 UNEF	2A	.4364	.4299	.4132	.4096				.3938	7/16-28 UNEF	2B	.3990	.4070	.4143	.4189	.4375
	3A	.4375	.4310	.4143	.4116				.3949		3B	.3990	.4051	.4143	.4178	.4375
7/16-32 UN	2A	.4365	.4305	.4162	.4128				.3993	7/16-32 UN	2B	.4040	.4110	.4172	.4216	.4375
	3A	.4375	.4315	.4172	.4147				.4003		3B	.4040	.4094	.4172	.4205	.4375

External Threads									Internal Threads							
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
1/2-12 UNS	2A	.4984	.4870	.4443	.4389				.3992	1/2-12 UNS	2B	.4100	.4280	.4459	.4529	.5000
	3A	.5000	.4886	.4459	.4419				.4008		3B	.4100	.4223	.4459	.4511	.5000
1/2-13 UNC	1A	.4985	.4822	.4485	.4411				.4069	1/2-13 UNC	1B	.4170	.4340	.4500	.4597	.5000
	2A	.4985	.4876	.4485	.4435				.4069		2B	.4170	.4340	.4500	.4565	.5000
	3A	.5000	.4891	.4500	.4463				.4084		3B	.4170	.4284	.4500	.4548	.5000
1/2-14 UNS	2A	.4985	.4882	.4521	.4471				.4135	1/2-14 UNS	2B	.4230	.4380	.4536	.4601	.5000
1/2-16 UN	2A	.4986	.4892	.4580	.4533				.4241	1/2-16 UN	2B	.4320	.4460	.4594	.4655	.5000
	3A	.5000	.4906	.4594	.4559				.4255		3B	.4320	.4419	.4594	.4640	.5000
1/2-18 UNS	2A	.4987	.4900	.4626	.4582				.4326	1/2-18 UNS	2B	.4400	.4530	.4639	.4697	.5000
1/2-20 UNF	1A	.4987	.4865	.4662	.4598				.4392	1/2-20 UNF	1B	.4460	.4570	.4675	.4759	.5000
	2A	.4987	.4906	.4662	.4619				.4392		2B	.4460	.4570	.4675	.4731	.5000
	3A	.5000	.4919	.4675	.4643				.4405		3B	.4460	.4537	.4675	.4717	.5000
1/2-24 UNS	2A	.4988	.4916	.4717	.4678				.4492	1/2-24 UNS	2B	.4550	.4650	.4729	.4780	.5000
1/2-27 UNS	2A	.4989	.4922	.4748	.4711				.4548	1/2-27 UNS	2B	.4600	.4690	.4759	.4807	.5000
1/2-28 UNEF	2A	.4989	.4924	.4757	.4720				.4563	1/2-28 UNEF	2B	.4610	.4700	.4768	.4816	.5000
	3A	.5000	.4935	.4768	.4740				.4574		3B	.4610	.4676	.4768	.4804	.5000
1/2-32 UN	2A	.4990	.4930	.4787	.4752				.4618	1/2-32 UN	2B	.4660	.4740	.4797	.4842	.5000
	3A	.5000	.4940	.4797	.4771				.4628		3B	.4660	.4719	.4797	.4831	.5000
9/16-12 UNC	1A	.5609	.5437	.5068	.4990				.4617	9/16-12 UNC	1B	.4720	.4900	.5084	.5186	.5625
	2A	.5609	.5495	.5068	.5016				.4617		2B	.4720	.4900	.5084	.5152	.5625
	3A	.5625	.5511	.5084	.5045				.4633		3B	.4720	.4843	.5084	.5135	.5625
9/16-14 UNS	2A	.5610	.5507	.5146	.5096				.4760	9/16-14 UNS	2B	.4850	.5010	.5161	.5226	.5625
9/16-16 UN	2A	.5611	.5517	.5205	.5158				.4866	9/16-16 UN	2B	.4950	.5090	.5219	.5280	.5625
	3A	.5625	.5531	.5219	.5184				.4880		3B	.4950	.5040	.5219	.5265	.5625
9/16-18 UNF	1A	.5611	.5480	.5250	.5182				.4950	9/16-18 UNF	1B	.5020	.5150	.5264	.5353	.5625
	2A	.5611	.5524	.5250	.5205				.4950		2B	.5020	.5150	.5264	.5323	.5625
	3A	.5625	.5538	.5264	.5230				.4964		3B	.5020	.5106	.5264	.5308	.5625

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
9/16-20 UN	2A	.5612	.5531	.5287	.5245				.5017	9/16-20 UN	2B	.5080	.5200	.5300	.5355	.5625
	3A	.5625	.5544	.5300	.5268				.5030		3B	.5080	.5162	.5300	.5341	.5625
9/16-24 UNEF	2A	.5613	.5541	.5342	.5303				.5117	9/16-24 UNEF	2B	.5170	.5270	.5354	.5405	.5625
	3A	.5625	.5553	.5354	.5325				.5129		3B	.5170	.5244	.5354	.5392	.5625
9/16-27 UNS	2A	.5614	.5547	.5373	.5336				.5173	9/16-27 UNS	2B	.5220	.5310	.5384	.5432	.5625
9/16-28 UN	2A	.5614	.5549	.5382	.5345				.5188	9/16-28 UN	2B	.5240	.5320	.5393	.5441	.5625
	3A	.5625	.5560	.5393	.5365				.5199		3B	.5240	.5301	.5393	.5429	.5625
9/16-32 UN	2A	.5615	.5555	.5412	.5377				.5243	9/16-32 UN	2B	.5290	.5360	.5422	.5467	.5625
	3A	.5625	.5565	.5422	.5396				.5253		3B	.5290	.5344	.5422	.5456	.5625
5/8-11 UNC	1A	.6234	.6052	.5644	.5561				.5152	5/8-11 UNC	1B	.5270	.5460	.5660	.5767	.6250
	2A	.6234	.6113	.5644	.5589				.5152		2B	.5270	.5460	.5660	.5732	.6250
	3A	.6250	.6129	.5660	.5619				.5168		3B	.5270	.5391	.5660	.5714	.6250
5/8-12 UN	2A	.6234	.6120	.5693	.5639				.5242	5/8-12 UN	2B	.5350	.5530	.5709	.5780	.6250
	3A	.6250	.6136	.5709	.5668				.5258		3B	.5350	.5463	.5709	.5762	.6250
5/8-14 UNS	2A	.6235	.6132	.5771	.5720				.5385	5/8-14 UNS	2B	.5480	.5640	.5786	.5852	.6250
5/8-16 UN	2A	.6236	.6142	.5830	.5782				.5491	5/8-16 UN	2B	.5570	.5710	.5844	.5906	.6250
	3A	.6250	.6156	.5844	.5808				.5505		3B	.5570	.5662	.5844	.5890	.6250
5/8-18 UNF	1A	.6236	.6105	.5875	.5805				.5575	5/8-18 UNF	1B	.5650	.5780	.5889	.5980	.6250
	2A	.6236	.6149	.5875	.5828				.5575		2B	.5650	.5780	.5889	.5949	.6250
	3A	.6250	.6163	.5889	.5854				.5589		3B	.5650	.5730	.5889	.5934	.6250
5/8-20 UN	2A	.6237	.6156	.5912	.5869				.5642	5/8-20 UN	2B	.5710	.5820	.5925	.5981	.6250
	3A	.6250	.6169	.5925	.5893				.5655		3B	.5710	.5787	.5925	.5967	.6250
5/8-24 UNEF	2A	.6238	.6166	.5967	.5927				.5742	5/8-24 UNEF	2B	.5800	.5900	.5979	.6031	.6250
	3A	.6250	.6178	.5979	.5949				.5754		3B	.5800	.5869	.5979	.6018	.6250
5/8-27 UNS	2A	.6239	.6172	.5998	.5960				.5798	5/8-27 UNS	2B	.5850	.5940	.6009	.6059	.6250
5/8-28 UN	2A	.6239	.6174	.6007	.5969				.5813	5/8-28 UN	2B	.5860	.5950	.6018	.6067	.6250
	3A	.6250	.6185	.6018	.5990				.5824		3B	.5860	.5926	.6018	.6055	.6250

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
5/8-32 UN	2A	.6239	.6179	.6036	.6000				.5867	5/8-32 UN	2B	.5910	.5990	.6047	.6093	.6250
	3A	.6250	.6190	.6047	.6020				.5878		3B	.5910	.5969	.6047	.6082	.6250
11/16-12 UN	2A	.6859	.6745	.6318	.6264				.5867	11/16-12 UN	2B	.5970	.6150	.6334	.6405	.6875
	3A	.6875	.6761	.6334	.6293				.5883		3B	.5970	.6085	.6334	.6387	.6875
11/16-16 UN	2A	.6861	.6767	.6455	.6407				.6116	11/16-16 UN	2B	.6200	.6340	.6469	.6531	.6875
	3A	.6875	.6781	.6469	.6433				.6130		3B	.6200	.6284	.6469	.6515	.6875
11/16-20 UN	2A	.6862	.6781	.6537	.6494				.6267	11/16-20 UN	2B	.6330	.6450	.6550	.6606	.6875
	3A	.6875	.6794	.6550	.6518				.6280		3B	.6330	.6412	.6550	.6592	.6875
11/16-24 UNEF	2A	.6863	.6791	.6592	.6552				.6367	11/16-24 UNEF	2B	.6420	.6520	.6604	.6656	.6875
	3A	.6875	.6803	.6604	.6574				.6379		3B	.6420	.6494	.6604	.6643	.6875
11/16-28 UN	2A	.6864	.6799	.6632	.6594				.6438	11/16-28 UN	2B	.6490	.6570	.6643	.6692	.6875
	3A	.6875	.6810	.6643	.6615				.6449		3B	.6490	.6551	.6643	.6680	.6875
11/16-32 UN	2A	.6864	.6804	.6661	.6625				.6492	11/16-32 UN	2B	.6540	.6610	.6672	.6718	.6875
	3A	.6875	.6815	.6672	.6645				.6503		3B	.6540	.6594	.6672	.6707	.6875
3/4-10 UNC	1A	.7482	.7288	.6832	.6744				.6291	3/4-10 UNC	1B	.6420	.6630	.6850	.6965	.7500
	2A	.7482	.7353	.6832	.6773				.6291		2B	.6420	.6630	.6850	.6927	.7500
	3A	.7500	.7371	.6850	.6806				.6309		3B	.6420	.6545	.6850	.6907	.7500
3/4-12 UN	2A	.7483	.7369	.6942	.6887				.6491	3/4-12 UN	2B	.6600	.6780	.6959	.7031	.7500
	3A	.7500	.7386	.6959	.6918				.6508		3B	.6600	.6707	.6959	.7013	.7500
3/4-14 UNS	2A	.7485	.7382	.7021	.6970				.6635	3/4-14 UNS	2B	.6730	.6880	.7036	.7103	.7500
3/4-16 UNF	1A	.7485	.7343	.7079	.7004				.6740	3/4-16 UNF	1B	.6820	.6960	.7094	.7192	.7500
	2A	.7485	.7391	.7079	.7029				.6740		2B	.6820	.6960	.7094	.7159	.7500
	3A	.7500	.7406	.7094	.7056				.6755		3B	.6820	.6908	.7094	.7143	.7500
3/4-18 UNS	2A	.7486	.7399	.7125	.7079				.6825	3/4-18 UNS	2B	.6900	.7030	.7139	.7199	.7500
3/4-20 UNEF	2A	.7487	.7406	.7162	.7118				.6892	3/4-20 UNEF	2B	.6960	.7070	.7175	.7232	.7500
	3A	.7500	.7419	.7175	.7142				.6905		3B	.6960	.7037	.7175	.7218	.7500
3/4-24 UNS	2A	.7488	.7416	.7217	.7176				.6992	3/4-24 UNS	2B	.7050	.7150	.7229	.7282	.7500
3/4-24 UNS	2A	.7488	.7421	.7247	.7208				.7047	3/4-24 UNS	2B	.7100	.7190	.7259	.7310	.7500

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Max	Min	Max	Min		Max	Min				Max	Min	Min	Max	
3/4-28 UN	2A	.7488	.7423	.7256	.7218				.7062	3/4-28 UN	2B	.7110	.7200	.7268	.7318	.7500
	3A	.7500	.7435	.7268	.7239				.7074		3B	.7110	.7176	.7268	.7305	.7500
3/4-32 UN	2A	.7489	.7429	.7286	.7250				.7117	3/4-32 UN	2B	.7160	.7240	.7297	.7344	.7500
	3A	.7500	.7440	.7297	.7270				.7128		3B	.7160	.7219	.7297	.7333	.7500
13/16-12 UN	2A	.8108	.7994	.7567	.7512				.7116	13/16-12 UN	2B	.7220	.7400	.7584	.7656	.8125
	3A	.8125	.8011	.7584	.7543				.7133		3B	.7220	.7329	.7584	.7638	.8125
13/16-16 UN	2A	.8110	.8016	.7704	.7655				.7365	13/16-16 UN	2B	.7450	.7590	.7719	.7782	.8125
	3A	.8125	.8031	.7719	.7683				.7380		3B	.7450	.7533	.7719	.7766	.8125
13/16-20 UNEF	2A	.8112	.8031	.7787	.7743				.7517	13/16-20 UNEF	2B	.7580	.7700	.7800	.7857	.8125
	3A	.8125	.8044	.7800	.7767				.7530		3B	.7580	.7662	.7800	.7843	.8125
13/16-28 UN	2A	.8113	.8048	.7881	.7843				.7687	13/16-28 UN	2B	.7740	.7820	.7893	.7943	.8125
	3A	.8125	.8060	.7893	.7864				.7699		3B	.7740	.7801	.7893	.7930	.8125
13/16-32 UN	2A	.8114	.8054	.7911	.7875				.7742	13/16-32 UN	2B	.7790	.7860	.7922	.7969	.8125
	3A	.8125	.8065	.7922	.7895				.7753		3B	.7790	.7844	.7922	.7958	.8125
7/8-9 UNC	1A	.8731	.8523	.8009	.7914				.7408	7/8-9 UNC	1B	.7550	.7780	.8028	.8151	.8750
	2A	.8731	.8592	.8009	.7946				.7408		2B	.7550	.7780	.8028	.8110	.8750
	3A	.8750	.8611	.8028	.7981				.7427		3B	.7550	.7681	.8028	.8089	.8750
7/8-10 UNS	2A	.8732	.8603	.8082	.8022				.7542	7/8-10 UNS	2B	.7670	.7880	.8100	.8178	.8750
7/8-12 UN	2A	.8733	.8619	.8192	.8137				.7741	7/8-12 UN	2B	.7850	.8030	.8209	.8281	.8750
	3A	.8750	.8636	.8209	.8168				.7758		3B	.7850	.7948	.8209	.8263	.8750
7/8-14 UNF	1A	.8734	.8579	.8270	.8189				.7884	7/8-14 UNF	1B	.7980	.8140	.8286	.8392	.8750
	2A	.8734	.8631	.8270	.8216				.7884		2B	.7980	.8140	.8286	.8356	.8750
	3A	.8750	.8647	.8286	.8245				.7900		3B	.7980	.8068	.8286	.8339	.8750
7/8-16 UN	2A	.8735	.8641	.8329	.8280				.7900	7/8-16 UN	2B	.8070	.8210	.8344	.8407	.8750
	3A	.8750	.8656	.8344	.8308				.8005		3B	.8070	.8158	.8344	.8391	.8750
7/8-18 UNS	2A	.8736	.8649	.8375	.8329				.8075	7/8-18 UNS	2B	.8150	.8280	.8389	.8449	.8750
7/8-20 UNEF	2A	.8737	.8656	.8412	.8368				.8142	7/8-20 UNEF	2B	.8210	.8320	.8425	.8482	.8750
	3A	.8750	.8669	.8425	.8392				.8155		3B	.8210	.8287	.8425	.8468	.8750

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Max	Min	Max	Min		Max	Min				Max	Min	Min	Max	
	Ext.	Max	Min	Max	Min		Max	Min	Max (Ref Only.)		Int.	Min	Max	Min	Max	Min
7/8-24 UNS	2A	.8738	.8666	.8467	.8426				.8242	7/8-24 UNS	2B	.8300	.8400	.8479	.8532	.8750
7/8-27 UNS	2A	.8738	.8671	.8497	.8458				.8297	7/8-27 UNS	2B	.8350	.8440	.8509	.8560	.8750
7/8-28 UN	2A	.8738	.8673	.8506	.8468				.8312	7/8-28 UN	2B	.8360	.8450	.8518	.8568	.8750
	3A	.8750	.8685	.8518	.8489				.8324		3B	.8360	.8426	.8518	.8555	.8750
7/8-32 UN	2A	.8739	.8679	.8536	.8500				.8367	7/8-32 UN	2B	.8410	.8490	.8547	.8594	.8750
	3A	.8750	.8690	.8547	.8520				.8378		3B	.8410	.8469	.8547	.8583	.8750
15/16-12 UN	2A	.9358	.9244	.8817	.8760				.8366	15/16-12 UN	2B	.8470	.8650	.8834	.8908	.9375
	3A	.9375	.9261	.8834	.8793				.8383		3B	.8470	.8575	.8834	.8889	.9375
15/16-16 UN	2A	.9360	.9266	.8954	.8904				.8615	15/16-16 UN	2B	.8700	.8840	.8969	.9034	.9375
	3A	.9375	.9281	.8969	.8932				.8630		3B	.8700	.8783	.8969	.9018	.9375
15/16-20 UNEF	2A	.9361	.9280	.9036	.8991				.8766	15/16-20 UNEF	2B	.8830	.8950	.9050	.9109	.9375
	3A	.9375	.9294	.9050	.9016				.8780		3B	.8830	.8912	.9050	.9094	.9375
15/16-28 UN	2A	.9363	.9298	.9131	.9091				.8937	15/16-28 UN	2B	.8990	.9070	.9143	.9195	.9375
	3A	.9375	.9310	.9143	.9113				.8949		3B	.8990	.9051	.9143	.9182	.9375
15/16-32 UN	2A	.9364	.9304	.9161	.9123				.8992	15/16-32 UN	2B	.9040	.9110	.9172	.9221	.9375
	3A	.9375	.9315	.9172	.9144				.9003		3B	.9040	.9094	.9172	.9209	.9375
1-8 UNC	1A	.9980	.9755	.9168	.9067				.8492	1-8 UNC	1B	.8650	.8900	.9188	.9320	1.0000
	2A	.9980	.9830	.9168	.9100				.8492		2B	.8650	.8900	.9188	.9276	1.0000
	3A	1.0000	.9850	.9188	.9137				.8512		3B	.8650	.8797	.9188	.9254	1.0000
1-10 UNS	2A	.9982	.9853	.9332	.9270				.8792	1-10 UNS	2B	.8920	.9130	.9350	.9430	1.0000
1-12 UNF	1A	.9982	.9810	.9441	.9353				.8990	1-12 UNF	1B	.9100	.9280	.9459	.9573	1.0000
	2A	.9982	.9868	.9441	.9382				.8990		2B	.9100	.9280	.9459	.9535	1.0000
	3A	1.0000	.9886	.9459	.9415				.9008		3B	.9100	.9198	.9459	.9516	1.0000
1-14 UNS	1A	.9983	.9828	.9519	.9435				.9132	1-14 UNS	1B	.9230	.9380	.9536	.9645	1.0000
	2A	.9983	.9880	.9519	.9463				.9132		2B	.9230	.9380	.9536	.9609	1.0000
	3A	1.0000	.9897	.9536	.9494				.9149		3B	.9230	.9315	.9536	.9590	1.0000
1-16 UN	2A	.9985	.9891	.9579	.9529				.9240	1-16 UN	2B	.9320	.9460	.9594	.9659	1.0000
	3A	1.0000	.9906	.9594	.9557				.9255		3B	.9320	.9408	.9594	.9643	1.0000
1-18 UNS	2A	.9986	.9899	.9625	.9578				.9325	1-18 UNS	2B	.9400	.9530	.9639	.9701	1.0000

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
1-20 UNEF	2A	.9986	.9905	.9661	.9616				.9391	1-20 UNEF	2B	.9460	.9570	.9675	.9734	1.0000
	3A	1.0000	.9919	.9675	.9641				.9405		3B	.9460	.9537	.9675	.9719	1.0000
1-24 UNS	2A	.9987	.9915	.9716	.9674				.9491	1-24 UNS	2B	.9550	.9650	.9729	.9784	1.0000
1-27 UNS	2A	.9988	.9921	.9747	.9707				.9547	1-27 UNS	2B	.9600	.9690	.9759	.9811	1.0000
1-28 UN	2A	.9988	.9923	.9756	.9716				.9562	1-28 UN	2B	.9610	.9700	.9768	.9820	1.0000
	3A	1.0000	.9935	.9768	.9738				.9574		3B	.9610	.9676	.9768	.9807	1.0000
1-32 UN	2A	.9989	.9929	.9786	.9748				.9617	1-32 UN	2B	.9660	.9740	.9797	.9846	1.0000
	3A	1.0000	.9940	.9797	.9769				.9628		3B	.9660	.9719	.9797	.9834	1.0000
1-1/16-8 UN	2A	1.0605	1.0455	.9793	.9725				.9117	1-1/16-8 UN	2B	.9270	.9520	.9813	.9902	1.0625
	3A	1.0625	1.0475	.9813	.9762				.9137		3B	.9270	.9422	.9813	.9880	1.0625
1-1/16-12 UN	2A	1.0608	1.0494	1.0067	1.0010				.9616	1-1/16-12 UN	2B	.9720	.9900	1.0084	1.0158	1.0625
	3A	1.0625	1.0511	1.0084	1.0042				.9633		3B	.9720	.9823	1.0084	1.0139	1.0625
1-1/16-16 UN	2A	1.0610	1.0516	1.0204	1.0154				.9865	1-1/16-16 UN	2B	.9950	1.0090	1.0219	1.0284	1.0625
	3A	1.0625	1.0531	1.0219	1.0182				.9880		3B	.9950	1.0033	1.0219	1.0268	1.0625
1-1/16-18 UNEF	2A	1.0611	1.0524	1.0250	1.0203				.9950	1-1/16-18 UNEF	2B	1.0020	1.0150	1.0264	1.0326	1.0625
	3A	1.0625	1.0538	1.0264	1.0228				.9964		3B	1.0020	1.0105	1.0264	1.0310	1.0625
1-1/16-20 UN	2A	1.0611	1.0530	1.0286	1.0241				1.0016	1-1/16-20 UN	2B	1.0080	1.0200	1.0300	1.0359	1.0625
	3A	1.0625	1.0544	1.0300	1.0266				1.0030		3B	1.0080	1.0162	1.0300	1.0344	1.0625
1-1/16-28 UN	2A	1.0613	1.0548	1.0381	1.0341				1.0187	1-1/16-28 UN	2B	1.0240	1.0320	1.0393	1.0445	1.0625
	3A	1.0625	1.0560	1.0393	1.0363				1.0199		3B	1.0240	1.0301	1.0393	1.0432	1.0625
1-1/8-7 UNC	1A	1.1228	1.0982	1.0300	1.0191				.9527	1-1/8-7 UNC	1B	.9700	.9980	1.0322	1.0463	1.1250
	2A	1.1228	1.1064	1.0300	1.0228				.9527		2B	.9700	.9980	1.0322	1.0416	1.1250
	3A	1.1250	1.1086	1.0322	1.0268				.9549		3B	.9700	.9875	1.0322	1.0393	1.1250
1-1/8-8 UN	2A	1.1229	1.1079	1.0417	1.0348				.9741	1-1/8-8 UN	2B	.9900	1.0150	1.0438	1.0528	1.1250
	3A	1.1250	1.1100	1.0438	1.0386				.9762		3B	.9900	1.0047	1.0438	1.0505	1.1250
1-1/8-10 UNS	2A	1.1232	1.1103	1.0582	1.0520				1.0042	1-1/8-10 UNS	2B	1.0170	1.0380	1.0600	1.0680	1.1250
1-1/8-12 UNF	1A	1.1232	1.1060	1.0691	1.0601				1.0240	1-1/8-12 UNF	1B	1.0350	1.0530	1.0709	1.0826	1.1250
	2A	1.1232	1.1118	1.0691	1.0631				1.0240		2B	1.0350	1.0530	1.0709	1.0787	1.1250
	3A	1.1250	1.1136	1.0709	1.0664				1.0258		3B	1.0350	1.0448	1.0709	1.0768	1.1250

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
1-1/8-14 UNS	2A	1.1234	1.1131	1.0770	1.0717				1.0384	.0000	.0000	1.0480	1.0640	1.0786	1.0855	1.1250
1-1/8-16 UN	2A	1.1235	1.1141	1.0829	1.0779				1.0490	1-1/8-16 UN	2B	1.0570	1.0710	1.0844	1.0909	1.1250
	3A	1.1250	1.1156	1.0844	1.0807				1.0505		3B	1.0570	1.0658	1.0844	1.0893	1.1250
1-1/8-18 UNEF	2A	1.1236	1.1149	1.0875	1.0828				1.0575	.0000	2B	1.0650	1.0780	1.0889	1.0951	1.1250
	3A	1.1250	1.1163	1.0889	1.0853				1.0589		3B	1.0650	1.0730	1.0889	1.0935	1.1250
1-1/8-20 UN	2A	1.1236	1.1155	1.0911	1.0866				1.0641	1-1/8-20 UN	2B	1.0710	1.0820	1.0925	1.0984	1.1250
	3A	1.1250	1.1169	1.0925	1.0891				1.0655		3B	1.0710	1.0787	1.0925	1.0969	1.1250
1-1/8-24 UNS	2A	1.1237	1.1165	1.0966	1.0924				1.0742	.0000	.0000	1.0800	1.0900	1.0979	1.1034	1.1250
1-1/8-28 UN	2A	1.1238	1.1173	1.1006	1.0966				1.0812	1-1/8-28 UN	2B	1.0860	1.0950	1.1018	1.1070	1.1250
	3A	1.1250	1.1185	1.1018	1.0988				1.0824		3B	1.0860	1.0926	1.1018	1.1057	1.1250
1-3/16-8 UN	2A	1.1854	1.1704	1.1042	1.0972				1.0366	1-3/16-8 UN	2B	1.0520	1.0770	1.1063	1.1154	1.1875
	3A	1.1875	1.1725	1.1063	1.1011				1.0387		3B	1.0520	1.0672	1.1063	1.1131	1.1875
1-3/16-12 UN	2A	1.1858	1.1744	1.1317	1.1259				1.0866	.0000	2B	1.0970	1.1150	1.1334	1.1409	1.1875
	3A	1.1875	1.1761	1.1334	1.1291				1.0883		3B	1.0970	1.1073	1.1334	1.1390	1.1875
1-3/16-16 UN	2A	1.1860	1.1766	1.1454	1.1403				1.1115	.0000	2B	1.1200	1.1340	1.1469	1.1535	1.1875
	3A	1.1875	1.1781	1.1469	1.1431				1.1130		3B	1.1200	1.1283	1.1469	1.1519	1.1875
1-3/16-18 UNEF	2A	1.1860	1.1773	1.1499	1.1450				1.1199	.0000	2B	1.1270	1.1400	1.1514	1.1577	1.1875
	3A	1.1875	1.1788	1.1514	1.1478				1.1214		3B	1.1270	1.1355	1.1514	1.1561	1.1875
1-3/16-20 UN	2A	1.1861	1.1780	1.1536	1.1489				1.1266	.0000	2B	1.1330	1.1450	1.1550	1.1611	1.1875
	3A	1.1875	1.1794	1.1550	1.1515				1.1280		3B	1.1330	1.1412	1.1550	1.1595	1.1875
1-3/16-28 UN	2A	1.1863	1.1798	1.1631	1.1590				1.1437	.0000	2B	1.1490	1.1570	1.1643	1.1696	1.1875
	3A	1.1875	1.1810	1.1643	1.1612				1.1449		3B	1.1490	1.1551	1.1643	1.1683	1.1875
1-1/4-7 UNC	1A	1.2478	1.2232	1.1550	1.1439				1.0777	.0000	1B	1.0950	1.1230	1.1572	1.1716	1.2500
	2A	1.2478	1.2314	1.1550	1.1476				1.0777		2B	1.0950	1.1230	1.1572	1.1668	1.2500
	3A	1.2500	1.2336	1.1572	1.1517				1.0799		3B	1.0950	1.1125	1.1572	1.1644	1.2500
1-1/4-8 UN	2A	1.2479	1.2329	1.1667	1.1597				1.0991	1-1/4-8 UN	2B	1.1150	1.1400	1.1688	1.1780	1.2500
	3A	1.2500	1.2350	1.1688	1.1635				1.1012		3B	1.1150	1.1297	1.1688	1.1757	1.2500
1-1/4-10 UNS	2A	1.2481	1.2352	1.1831	1.1768				1.1291	.0000	.0000	1.1420	1.1630	1.1850	1.1932	1.2500

External Threads										Internal Threads							
Thread Size	Thread Class	Major Diameter			Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max	Min		Max	Min				Max (Ref Only.)	Int.	Min	Max	
1-1/4-12 UNF	1A	1.2482	1.2310	1.1941	1.1849				1.1490	1-1/4-12 UNF	1B	1.1600	1.1780	1.1959	1.2079	1.2500	
	2A	1.2482	1.2368	1.1941	1.1879			1.1490	2B		1.1600	1.1780	1.1959	1.2039	1.2500		
	3A	1.2500	1.2386	1.1959	1.1913			1.1508	3B		1.1600	1.1698	1.1959	1.2019	1.2500		
1-1/4-14 UNS	2A	1.2484	1.2381	1.2020	1.1966				1.1634	1-1/4-14 UNS	2B	1.1730	1.1880	1.2036	1.2106	1.2500	
1-1/4-16 UN	2A	1.2485	1.2391	1.2079	1.2028				1.1740	1-1/4-16 UN	2B	1.1820	1.1960	1.2094	1.2160	1.2500	
	3A	1.2500	1.2406	1.2094	1.2056			1.1755	3B		1.1820	1.1908	1.2094	1.2144	1.2500		
1-1/4-18 UNEF	2A	1.2485	1.2398	1.2124	1.2075				1.1824	1-1/4-18 UNEF	2B	1.1900	1.2030	1.2139	1.2202	1.2500	
	3A	1.2500	1.2413	1.2139	1.2103			1.1839	3B		1.1900	1.1980	1.2139	1.2186	1.2500		
1-1/4-20 UN	2A	1.2486	1.2405	1.2161	1.2114				1.1891	1-1/4-20 UN	2B	1.1960	1.2070	1.2175	1.2236	1.2500	
	3A	1.2500	1.2419	1.2175	1.2140			1.1905	3B		1.1960	1.2037	1.2175	1.2220	1.2500		
1-1/4-24 UNS	2A	1.2487	1.2415	1.2216	1.2173				1.1991	1-1/4-24 UNS	2B	1.2050	1.2150	1.2229	1.2285	1.2500	
1-1/4-28 UN	2A	1.2488	1.2423	1.2256	1.2215				1.2062	1-1/4-28 UN	2B	1.2110	1.2200	1.2268	1.2321	1.2500	
	3A	1.2500	1.2435	1.2268	1.2237			1.2074	3B		1.2110	1.2176	1.2268	1.2308	1.2500		
1-5/16-8 UN	2A	1.3104	1.2954	1.2292	1.2221				1.1616	1-5/16-8 UN	2B	1.1770	1.2020	1.2313	1.2405	1.3125	
	3A	1.3125	1.2975	1.2313	1.2260			1.1637	3B		1.1770	1.1922	1.2313	1.2382	1.3125		
1-5/16-12 UN	2A	1.3108	1.2994	1.2567	1.2509				1.2116	1-5/16-12 UN	2B	1.2220	1.2400	1.2584	1.2659	1.3125	
	3A	1.3125	1.3011	1.2584	1.2541			1.2133	3B		1.2220	1.2323	1.2584	1.2640	1.3125		
1-5/16-16 UN	2A	1.3110	1.3016	1.2704	1.2653				1.2365	1-5/16-16 UN	2B	1.2450	1.2590	1.2719	1.2785	1.3125	
	3A	1.3125	1.3031	1.2719	1.2681			1.2380	3B		1.2450	1.2533	1.2719	1.2769	1.3125		
1-5/16-18 UNEF	2A	1.3110	1.3023	1.2749	1.2700				1.2449	1-5/16-18 UNEF	2B	1.2520	1.2650	1.2764	1.2827	1.3125	
	3A	1.3125	1.3038	1.2764	1.2728			1.2464	3B		1.2520	1.2605	1.2764	1.2811	1.3125		
1-5/16-20 UN	2A	1.3111	1.3030	1.2786	1.2739				1.2516	1-5/16-20 UN	2B	1.2580	1.2700	1.2800	1.2861	1.3125	
	3A	1.3125	1.3044	1.2800	1.2765			1.2530	3B		1.2580	1.2662	1.2800	1.2845	1.3125		
1-5/16-28 UN	2A	1.3113	1.3048	1.2881	1.2840				1.2687	1-5/16-28 UN	2B	1.2740	1.2820	1.2893	1.2946	1.3125	
	3A	1.3125	1.3060	1.2893	1.2862			1.2699	3B		1.2740	1.2801	1.2893	1.2933	1.3125		
1-3/8-6 UNC	1A	1.3726	1.3453	1.2643	1.2523				1.1742	1-3/8-6 UNC	1B	1.1950	1.2250	1.2667	1.2822	1.3750	
	2A	1.3726	1.3544	1.2643	1.2563			1.1742	2B		1.1950	1.2250	1.2667	1.2771	1.3750		
	3A	1.3750	1.3568	1.2667	1.2607			1.1766	3B		1.1950	1.2146	1.2667	1.2745	1.3750		

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
1-3/8-8 UN	2A	1.3728	1.3578	1.2916	1.2844				1.2240	1-3/8-8 UN	2B	1.2400	1.2650	1.2938	1.3031	1.3750
	3A	1.3750	1.3600	1.2938	1.2884				1.2262		3B	1.2400	1.2547	1.2938	1.3008	1.3750
1-3/8-10 UNS	2A	1.3731	1.3602	1.3081	1.3018				1.2541	1-3/8-10 UNS	2B	1.2670	1.2880	1.3100	1.3182	1.3750
1-3/8-12 UNF	1A	1.3731	1.3559	1.3190	1.3096				1.2739	1-3/8-12 UNF	1B	1.2850	1.3030	1.3209	1.3332	1.3750
	2A	1.3731	1.3617	1.3190	1.3127				1.2739		2B	1.2850	1.3030	1.3209	1.3291	1.3750
	3A	1.3750	1.3636	1.3209	1.3162				1.2758		3B	1.2850	1.2948	1.3209	1.3270	1.3750
1-3/8-14 UNS	2A	1.3734	1.3631	1.3270	1.3216				1.2884	1-3/8-14 UNS	2B	1.2980	1.3140	1.3286	1.3356	1.3750
1-3/8-16 UN	2A	1.3735	1.3641	1.3329	1.3278				1.2990	1-3/8-16 UN	2B	1.3070	1.3210	1.3344	1.3410	1.3750
	3A	1.3750	1.3656	1.3344	1.3306				1.3005		3B	1.3070	1.3158	1.3344	1.3394	1.3750
1-3/8-18 UNEF	2A	1.3735	1.3648	1.3374	1.3325				1.3074	1-3/8-18 UNEF	2B	1.3150	1.3280	1.3389	1.3452	1.3750
	3A	1.3750	1.3663	1.3389	1.3353				1.3089		3B	1.3150	1.3230	1.3389	1.3436	1.3750
1-3/8-20 UN	2A	1.3736	1.3655	1.3411	1.3364				1.3141	1-3/8-20 UN	2B	1.3210	1.3320	1.3425	1.3486	1.3750
	3A	1.3750	1.3669	1.3425	1.3390				1.3155		3B	1.3210	1.3287	1.3425	1.3470	1.3750
1-3/8-24 UNS	2A	1.3737	1.3665	1.3466	1.3423				1.3241	1-3/8-24 UNS	2B	1.3300	1.3400	1.3479	1.3535	1.3750
1-3/8-28 UN	2A	1.3738	1.3673	1.3506	1.3465				1.3312	1-3/8-28 UN	2B	1.3360	1.3450	1.3518	1.3571	1.3750
	3A	1.3750	1.3685	1.3518	1.3487				1.3324		3B	1.3360	1.3426	1.3518	1.3558	1.3750
1-7/16-6 UN	2A	1.4351	1.4169	1.3268	1.3188				1.2367	1-7/16-6 UN	2B	1.2570	1.2880	1.3292	1.3396	1.4375
	3A	1.4375	1.4193	1.3292	1.3232				1.2391		3B	1.2570	1.2771	1.3292	1.3370	1.4375
1-7/16-8 UN	2A	1.4353	1.4203	1.3541	1.3469				1.2865	1-7/16-8 UN	2B	1.3020	1.3270	1.3563	1.3657	1.4375
	3A	1.4375	1.4225	1.3563	1.3509				1.2887		3B	1.3020	1.3172	1.3563	1.3634	1.4375
1-7/16-12 UN	2A	1.4357	1.4243	1.3816	1.3757				1.3365	1-7/16-12 UN	2B	1.3470	1.3650	1.3834	1.3910	1.4375
	3A	1.4375	1.4261	1.3834	1.3790				1.3383		3B	1.3470	1.3573	1.3834	1.3891	1.4375
1-7/16-16 UN	2A	1.4359	1.4265	1.3953	1.3901				1.3614	1-7/16-16 UN	2B	1.3700	1.3840	1.3969	1.4037	1.4375
	3A	1.4375	1.4281	1.3969	1.3930				1.3630		3B	1.3700	1.3783	1.3969	1.4020	1.4375
1-7/16-18 UNEF	2A	1.4360	1.4273	1.3999	1.3949				1.3699	1-7/16-18 UNEF	2B	1.3770	1.3900	1.4014	1.4079	1.4375
	3A	1.4375	1.4288	1.4014	1.3977				1.3714		3B	1.3770	1.3855	1.4014	1.4062	1.4375
1-7/16-20 UN	2A	1.4361	1.4280	1.4036	1.3988				1.3766	1-7/16-20 UN	2B	1.3830	1.3950	1.4050	1.4112	1.4375
	3A	1.4375	1.4294	1.4050	1.4014				1.3780		3B	1.3830	1.3912	1.4050	1.4096	1.4375

External Threads										Internal Threads							
Thread Size	Thread Class	Major Diameter			Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max	Min		Max	Min				Max (Ref Only.)	Int.	Min	Max	
1-7/16-28 UN	2A	1.4362	1.4297	1.4130	1.4088				1.3936	1-7/16-28 UN	2B	1.3990	1.4070	1.4143	1.4198	1.4375	
	3A	1.4375	1.4310	1.4143	1.4112				1.3949		3B	1.3990	1.4051	1.4143	1.4184	1.4375	
1-1/2-6 UNC	1A	1.4976	1.4703	1.3893	1.3772				1.2992	1-1/2-6 UNC	1B	1.3200	1.3500	1.3917	1.4075	1.5000	
	2A	1.4976	1.4794	1.3893	1.3812				1.2992		2B	1.3200	1.3500	1.3917	1.4022	1.5000	
	3A	1.5000	1.4818	1.3917	1.3856				1.3016		3B	1.3200	1.3396	1.3917	1.3996	1.5000	
1-1/2-8 UN	2A	1.4978	1.4828	1.4166	1.4093				1.3490	1-1/2-8 UN	2B	1.3650	1.3900	1.4188	1.4283	1.5000	
	3A	1.5000	1.4850	1.4188	1.4133				1.3512		3B	1.3650	1.3797	1.4188	1.4259	1.5000	
1-1/2-10 UNS	2A	1.4981	1.4852	1.4331	1.4267				1.3791	1-1/2-10 UNS	2B	1.3920	1.4130	1.4350	1.4433	1.5000	
1-1/2-12 UNF	1A	1.4981	1.4809	1.4440	1.4344				1.3989	1-1/2-12 UNF	1B	1.4100	1.4280	1.4459	1.4584	1.5000	
	2A	1.4981	1.4867	1.4440	1.4376				1.3989		2B	1.4100	1.4280	1.4459	1.4542	1.5000	
	3A	1.5000	1.4886	1.4459	1.4411				1.4008		3B	1.4100	1.4198	1.4459	1.4522	1.5000	
1-1/2-14 UNS	2A	1.4983	1.4880	1.4519	1.4464				1.4133	1-1/2-14 UNS	2B	1.4230	1.4380	1.4536	1.4608	1.5000	
1-1/2-16 UN	2A	1.4984	1.4890	1.4578	1.4526				1.4239	1-1/2-16 UN	2B	1.4320	1.4460	1.4594	1.4662	1.5000	
	3A	1.5000	1.4906	1.4594	1.4555				1.4255		3B	1.4320	1.4408	1.4594	1.4645	1.5000	
1-1/2-18 UNEF	2A	1.4985	1.4898	1.4624	1.4574				1.4324	1-1/2-18 UNEF	2B	1.4400	1.4520	1.4639	1.4704	1.5000	
	3A	1.5000	1.4913	1.4639	1.4602				1.4339		3B	1.4400	1.4480	1.4639	1.4687	1.5000	
1-1/2-20 UN	2A	1.4986	1.4905	1.4661	1.4613				1.4391	1-1/2-20 UN	2B	1.4460	1.4570	1.4675	1.4737	1.5000	
	3A	1.5000	1.4919	1.4675	1.4639				1.4405		3B	1.4460	1.4537	1.4675	1.4721	1.5000	
1-1/2-24 UNS	2A	1.4987	1.4915	1.4716	1.4672				1.4491	1-1/2-24 UNS	2B	1.4550	1.4650	1.4729	1.4787	1.5000	
1-1/2-28 UN	2A	1.4987	1.4922	1.4755	1.4713				1.4561	1-1/2-28 UN	2B	1.4610	1.4700	1.4768	1.4823	1.5000	
	3A	1.5000	1.4935	1.4768	1.4737				1.4574		3B	1.4610	1.4676	1.4768	1.4809	1.5000	
1-9/16-6 UN	2A	1.5601	1.5419	1.4518	1.4436				1.3617	1-9/16-6 UN	2B	1.3820	1.4130	1.4542	1.4648	1.5625	
	3A	1.5625	1.5443	1.4542	1.4481				1.3641		3B	1.3820	1.4021	1.4542	1.4622	1.5625	
1-9/16-8 UN	2A	1.5603	1.5453	1.4791	1.4717				1.4115	1-9/16-8 UN	2B	1.4270	1.4520	1.4813	1.4909	1.5625	
	3A	1.5625	1.5475	1.4813	1.4758				1.4137		3B	1.4270	1.4422	1.4813	1.4885	1.5625	
1-9/16-12 UN	2A	1.5607	1.5493	1.5066	1.5007				1.4615	1-9/16-12 UN	2B	1.4720	1.4900	1.5084	1.5160	1.5625	
	3A	1.5625	1.5511	1.5084	1.5040				1.4633		3B	1.4720	1.4823	1.5084	1.5141	1.5625	

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
1-916-16 UN	2A	1.5609	1.5515	1.5203	1.5151				1.4864	1-916-16 UN	2B	1.4950	1.5090	1.5219	1.5287	1.5625
	3A	1.5625	1.5531	1.5219	1.5180				1.4880		3B	1.4950	1.5033	1.5219	1.5270	1.5625
1-916-18 UNEF	2A	1.5610	1.5523	1.5249	1.5199				1.4949	1-916-18 UNEF	2B	1.5020	1.5150	1.5264	1.5329	1.5625
	3A	1.5625	1.5538	1.5264	1.5227				1.4964		3B	1.5020	1.5105	1.5264	1.5312	1.5625
1-916-20 UN	2A	1.5611	1.5530	1.5286	1.5238				1.5016	1-916-20 UN	2B	1.5080	1.5200	1.5300	1.5362	1.5625
	3A	1.5625	1.5544	1.5300	1.5264				1.5030		3B	1.5080	1.5162	1.5300	1.5346	1.5625
1-58-6 UN	2A	1.6225	1.6043	1.5142	1.5060				1.4246	1-58-6 UN	2B	1.4450	1.4750	1.5167	1.5274	1.6250
	3A	1.6250	1.6068	1.5167	1.5105				1.4271		3B	1.4450	1.4646	1.5167	1.5247	1.6250
1-58-8 UN	2A	1.6228	1.6078	1.5416	1.5342				1.4784	1-58-8 UN	2B	1.4900	1.5150	1.5438	1.5535	1.6250
	3A	1.6250	1.6100	1.5438	1.5382				1.4806		3B	1.4900	1.5047	1.5438	1.5510	1.6250
1-58-10 UNS	2A	1.6231	1.6102	1.5581	1.5517				1.5041	1-58-10 UNS	2B	1.5170	1.5380	1.5600	1.5683	1.6250
1-58-12 UN	2A	1.6232	1.6118	1.5691	1.5632				1.5240	1-58-12 UN	2B	1.5350	1.5530	1.5709	1.5785	1.6250
	3A	1.6250	1.6136	1.5709	1.5665				1.5258		3B	1.5350	1.5448	1.5709	1.5766	1.6250
1-58-14 UNS	2A	1.6233	1.6130	1.5769	1.5714				1.5383	1-58-14 UNS	2B	1.5480	1.5640	1.5786	1.5858	1.6250
1-58-16 UN	2A	1.6234	1.6140	1.5828	1.5776				1.5489	1-58-16 UN	2B	1.5570	1.5710	1.5844	1.5912	1.6250
	3A	1.6250	1.6156	1.5844	1.5805				1.5505		3B	1.5570	1.5658	1.5844	1.5895	1.6250
1-58-18 UNEF	2A	1.6235	1.6148	1.5874	1.5824				1.5574	1-58-18 UNEF	2B	1.5650	1.5780	1.5889	1.5954	1.6250
	3A	1.6250	1.6163	1.5889	1.5852				1.5589		3B	1.5650	1.5730	1.5889	1.5937	1.6250
1-58-20 UN	2A	1.6236	1.6155	1.5911	1.5863				1.5641	1-58-20 UN	2B	1.5710	1.5820	1.5925	1.5987	1.6250
	3A	1.6250	1.6169	1.5925	1.5889				1.5655		3B	1.5710	1.5787	1.5925	1.5971	1.6250
1-58-24 UNS	2A	1.6237	1.6165	1.5966	1.5922				1.5741	1-58-24 UNS	2B	1.5800	1.5900	1.5979	1.6037	1.6250
1-1116-6 UN	2A	1.6850	1.6668	1.5767	1.5684				1.4866	1-1116-6 UN	2B	1.5070	1.5380	1.5792	1.5900	1.6875
	3A	1.6875	1.6693	1.5792	1.5730				1.4891		3B	1.5070	1.5271	1.5792	1.5873	1.6875
1-1116-8 UN	2A	1.6853	1.6703	1.6041	1.5966				1.5365	1-1116-8 UN	2B	1.5520	1.5770	1.6063	1.6160	1.6875
	3A	1.6875	1.6725	1.6063	1.6007				1.5387		3B	1.5520	1.5672	1.6063	1.6136	1.6875
1-1116-12 UN	2A	1.6857	1.6743	1.6316	1.6256				1.5865	1-1116-12 UN	2B	1.5970	1.6150	1.6334	1.6412	1.6875
	3A	1.6875	1.6761	1.6334	1.6289				1.5883		3B	1.5970	1.6073	1.6334	1.6392	1.6875

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
1-11/16-16 UN	2A	1.6859	1.6765	1.6453	1.6400				1.6114	1-11/16-16 UN	2B	1.6200	1.6340	1.6469	1.6538	1.6875
	3A	1.6875	1.6781	1.6469	1.6429				1.6130		3B	1.6200	1.6283	1.6469	1.6521	1.6875
1-11/16-18 UNEF	2A	1.6860	1.6773	1.6499	1.6448				1.6199	1-11/16-18 UNEF	2B	1.6270	1.6400	1.6514	1.6580	1.6875
	3A	1.6875	1.6788	1.6514	1.6476				1.6214		3B	1.6270	1.6355	1.6514	1.6563	1.6875
1-11/16-20 UN	2A	1.6860	1.6779	1.6535	1.6487				1.6265	1-11/16-20 UN	2B	1.6330	1.6450	1.6550	1.6613	1.6875
	3A	1.6875	1.6794	1.6550	1.6514				1.6280		3B	1.6330	1.6412	1.6550	1.6597	1.6875
1-3/4-5 UNC	1A	1.7473	1.7165	1.6174	1.6040				1.5092	1-3/4-5 UNC	1B	1.5340	1.5680	1.6201	1.6375	1.7500
	2A	1.7473	1.7268	1.6174	1.6085				1.5092		2B	1.5340	1.5680	1.6201	1.6317	1.7500
	3A	1.7500	1.7295	1.6201	1.6134				1.5119		3B	1.5340	1.5575	1.6201	1.6288	1.7500
1-3/4-6 UN	2A	1.7475	1.7293	1.6392	1.6309				1.5491	1-3/4-6 UN	2B	1.5700	1.6000	1.6417	1.6525	1.7500
	3A	1.7500	1.7318	1.6417	1.6354				1.5516		3B	1.5700	1.5896	1.6417	1.6498	1.7500
1-3/4-8 UN	2A	1.7477	1.7327	1.6665	1.6590				1.5989	1-3/4-8 UN	2B	1.6150	1.6400	1.6688	1.6786	1.7500
	3A	1.7500	1.7350	1.6688	1.6632				1.6012		3B	1.6150	1.6297	1.6688	1.6762	1.7500
1-3/4-10 UNS	2A	1.7481	1.7352	1.6831	1.6766				1.6291	1-3/4-10 UNS	2B	1.6420	1.6630	1.6850	1.6934	1.7500
1-3/4-12 UN	2A	1.7482	1.7368	1.6941	1.6881				1.6490	1-3/4-12 UN	2B	1.6600	1.6780	1.6959	1.7037	1.7500
	3A	1.7500	1.7386	1.6959	1.6914				1.6508		3B	1.6600	1.6698	1.6959	1.7017	1.7500
1-3/4-14 UNS	2A	1.7483	1.7380	1.7019	1.6963				1.6632	1-3/4-14 UNS	2B	1.6730	1.6880	1.7036	1.7109	1.7500
1-3/4-16 UN	2A	1.7484	1.7390	1.7078	1.7025				1.6739	1-3/4-16 UN	2B	1.6820	1.6960	1.7094	1.7163	1.7500
	3A	1.7500	1.7406	1.7094	1.7054				1.6755		3B	1.6820	1.6908	1.7094	1.7146	1.7500
1-3/4-18 UNS	2A	1.7485	1.7398	1.7124	1.7073				1.6824	1-3/4-18 UNS	2B	1.6900	1.7030	1.7139	1.7205	1.7500
1-3/4-20 UN	2A	1.7485	1.7404	1.7160	1.7112				1.6890	1-3/4-20 UN	2B	1.6960	1.7070	1.7175	1.7238	1.7500
	3A	1.7500	1.7419	1.7175	1.7139				1.6905		3B	1.6960	1.7037	1.7175	1.7222	1.7500
1-13/16-6 UN	2A	1.8100	1.7918	1.7017	1.6933				1.6116	1-13/16-6 UN	2B	1.6320	1.6630	1.7042	1.7151	1.8125
	3A	1.8125	1.7943	1.7042	1.6979				1.6141		3B	1.6320	1.6521	1.7042	1.7124	1.8125
1-13/16-8 UN	2A	1.8102	1.7952	1.7290	1.7214				1.6614	1-13/16-8 UN	2B	1.6770	1.7020	1.7313	1.7412	1.8125
	3A	1.8125	1.7975	1.7313	1.7256				1.6637		3B	1.6770	1.6922	1.7313	1.7387	1.8125
1-13/16-12 UN	2A	1.8107	1.7993	1.7566	1.7506				1.7115	1-13/16-12 UN	2B	1.7220	1.7400	1.7584	1.7662	1.8125
	3A	1.8125	1.8011	1.7584	1.7539				1.7133		3B	1.7220	1.7323	1.7584	1.7642	1.8125

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
1-1316-16 UN	2A	1.8109	1.8015	1.7703	1.7650				1.7364	1-1316-16 UN	2B	1.7450	1.7590	1.7719	1.7788	1.8125
	3A	1.8125	1.8031	1.7719	1.7679				1.7380		3B	1.7450	1.7533	1.7719	1.7771	1.8125
1-1316-20 UN	2A	1.8110	1.8029	1.7785	1.7737				1.7515	1-1316-20 UN	2B	1.7580	1.7700	1.7800	1.7863	1.8125
	3A	1.8125	1.8044	1.7800	1.7764				1.7530		3B	1.7580	1.7662	1.7800	1.7847	1.8125
1-78-6 UN	2A	1.8725	1.8543	1.7642	1.7558				1.6741	1-78-6 UN	2B	1.6950	1.7250	1.7667	1.7777	1.8750
	3A	1.8750	1.8568	1.7667	1.7604				1.6766		3B	1.6950	1.7146	1.7667	1.7749	1.8750
1-78-8 UN	2A	1.8727	1.8577	1.7915	1.7838				1.7239	1-78-8 UN	2B	1.7400	1.7650	1.7938	1.8038	1.8750
	3A	1.8750	1.8600	1.7938	1.7881				1.7262		3B	1.7400	1.7547	1.7938	1.8013	1.8750
1-78-10 UNS	2A	1.8731	1.8602	1.8081	1.8016				1.7541	1-78-10 UNS	2B	1.7670	1.7880	1.8100	1.8184	1.8750
1-78-12 UN	2A	1.8732	1.8618	1.8191	1.8131				1.7740	1-78-12 UN	2B	1.7850	1.8030	1.8209	1.8287	1.8750
	3A	1.8750	1.8636	1.8209	1.8164				1.7758		3B	1.7850	1.7948	1.8209	1.8267	1.8750
1-78-14 UNS	2A	1.8733	1.8630	1.8269	1.8213				1.7883	1-78-14 UNS	2B	1.7980	1.8140	1.8286	1.8359	1.8750
1-78-16 UN	2A	1.8734	1.8640	1.8328	1.8275				1.7989	1-78-16 UN	2B	1.8070	1.8210	1.8344	1.8413	1.8750
	3A	1.8750	1.8656	1.8344	1.8304				1.8005		3B	1.8070	1.8158	1.8344	1.8396	1.8750
1-78-18 UNS	2A	1.8735	1.8648	1.8374	1.8323				1.8074	1-78-18 UNS	2B	1.8150	1.8280	1.8389	1.8455	1.8750
1-78-20 UN	2A	1.8735	1.8654	1.8410	1.8362				1.8140	1-78-20 UN	2B	1.8210	1.8320	1.8425	1.8488	1.8750
	3A	1.8750	1.8669	1.8425	1.8389				1.8155		3B	1.8210	1.8287	1.8425	1.8472	1.8750
1-1516-6 UN	2A	1.9349	1.9167	1.8266	1.8181				1.7365	1-1516-6 UN	2B	1.7570	1.7880	1.8292	1.8403	1.9375
	3A	1.9375	1.9193	1.8292	1.8228				1.7391		3B	1.7570	1.7771	1.8292	1.8375	1.9375
1-1516-8 UN	2A	1.9352	1.9202	1.8540	1.8463				1.7864	1-1516-8 UN	2B	1.8020	1.8270	1.8563	1.8663	1.9375
	3A	1.9375	1.9225	1.8563	1.8505				1.7887		3B	1.8020	1.8172	1.8563	1.8638	1.9375
1-1516-12 UN	2A	1.9357	1.9243	1.8816	1.8755				1.8365	1-1516-12 UN	2B	1.8470	1.8650	1.8834	1.8913	1.9375
	3A	1.9375	1.9261	1.8834	1.8789				1.8383		3B	1.8470	1.8573	1.8834	1.8893	1.9375
1-1516-16 UN	2A	1.9359	1.9265	1.8953	1.8899				1.8614	1-1516-16 UN	2B	1.8700	1.8840	1.8969	1.9039	1.9375
	3A	1.9375	1.9281	1.8969	1.8929				1.8630		3B	1.8700	1.8783	1.8969	1.9021	1.9375
1-1516-20 UN	2A	1.9360	1.9279	1.9035	1.8986				1.8765	1-1516-20 UN	2B	1.8830	1.8950	1.9050	1.9114	1.9375
	3A	1.9375	1.9294	1.9050	1.9013				1.8780		3B	1.8830	1.8912	1.9050	1.9098	1.9375

External Threads										Internal Threads							
Thread Size	Thread Class	Major Diameter			Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max	Min		Max	Min				Max (Ref Only.)	Int.	Min	Max	
2-4 ½ UNC	1A	1.9971	1.9641	1.8528	1.8385				1.7324	2-4 ½ UNC	1B	1.7590	1.7950	1.8557	1.8743	2.0000	
	2A	1.9971	1.9751	1.8528	1.8433			1.7324	2B		1.7590	1.7950	1.8557	1.8681	2.0000		
	3A	2.0000	1.9780	1.8557	1.8486			1.7353	3B		1.7590	1.7861	1.8557	1.8650	2.0000		
2-6 UN	2A	1.9974	1.9792	1.8891	1.8805				1.7990	2-6 UN	2B	1.8200	1.8500	1.8917	1.9028	2.0000	
	3A	2.0000	1.9818	1.8917	1.8853				1.8016		3B	1.8200	1.8396	1.8917	1.9000	2.0000	
2-8 UN	2A	1.9977	1.9827	1.9165	1.9087				1.8489	2-8 UN	2B	1.8650	1.8900	1.9188	1.9289	2.0000	
	3A	2.0000	1.9850	1.9188	1.9130				1.8512		3B	1.8650	1.8797	1.9188	1.9264	2.0000	
2-10 UNS	2A	1.9980	1.9851	1.9330	1.9265				1.8790	2-10 UNS	2B	1.8920	1.9130	1.9350	1.9435	2.0000	
2-12 UN	2A	1.9982	1.9868	1.9441	1.9380				1.8990	2-12 UN	2B	1.9100	1.9280	1.9459	1.9538	2.0000	
	3A	2.0000	1.9886	1.9459	1.9414				1.9008		3B	1.9100	1.9198	1.9459	1.9518	2.0000	
2-14 UNS	2A	1.9983	1.9880	1.9519	1.9462				1.9133	2-14 UNS	2B	1.9230	1.9380	1.9536	1.9610	2.0000	
2-16 UN	2A	1.9984	1.9890	1.9578	1.9524				1.9239	2-16 UN	2B	1.9320	1.9460	1.9594	1.9664	2.0000	
	3A	2.0000	1.9906	1.9594	1.9554				1.9255		3B	1.9320	1.9408	1.9594	1.9646	2.0000	
2-18 UNS	2A	1.9985	1.9898	1.9624	1.9573				1.9324	2-18 UNS	2B	1.9400	1.9530	1.9639	1.9706	2.0000	
2-20 UN	2A	1.9985	1.9904	1.9660	1.9611				1.9390	2-20 UN	2B	1.9460	1.9570	1.9675	1.9739	2.0000	
	3A	2.0000	1.9919	1.9675	1.9638				1.9405		3B	1.9460	1.9537	1.9675	1.9723	2.0000	
2-1/16-16 UNS	2A	2.0609	2.0515	2.0203	2.0149				1.9864	2-1/16-16 UNS	2B	1.9950	2.0090	2.0219	2.0289	2.0625	
	3A	2.0625	2.0531	2.0219	2.0179				1.9880		3B	1.9950	2.0033	2.0219	2.0271	2.0625	
2-1/8-6 UN	2A	2.1224	2.1042	2.0141	2.0054				1.9240	2-1/8-6 UN	2B	1.9450	1.9750	2.0167	2.0280	2.1250	
	3A	2.1250	2.1068	2.0167	2.0102				1.9266		3B	1.9450	1.9646	2.0167	2.0251	2.1250	
2-1/8-8 UN	2A	2.1226	2.1076	2.0414	2.0335				1.9738	2-1/8-8 UN	2B	1.9900	2.0150	2.0438	2.0540	2.1250	
	3A	2.1250	2.1100	2.0438	2.0379				1.9762		3B	1.9900	2.0047	2.0438	2.0515	2.1250	
2-1/8-12 UN	2A	2.1232	2.1118	2.0691	2.0630				2.0240	2-1/8-12 UN	2B	2.0350	2.0530	2.0709	2.0788	2.1250	
	3A	2.1250	2.1136	2.0709	2.0664				2.0258		3B	2.0350	2.0448	2.0709	2.0768	2.1250	
2-1/8-16 UN	2A	2.1234	2.1140	2.0828	2.0774				2.0489	2-1/8-16 UN	2B	2.0570	2.0710	2.0844	2.0914	2.1250	
	3A	2.1250	2.1156	2.0844	2.0803				2.0505		3B	2.0570	2.0658	2.0844	2.0896	2.1250	
2-1/8-20 UN	2A	2.1235	2.1154	2.0910	2.0861				2.0640	2-1/8-20 UN	2B	2.0710	2.0820	2.0925	2.0989	2.1250	
	3A	2.1250	2.1169	2.0925	2.0888				2.0655		3B	2.0710	2.0787	2.0925	2.0973	2.1250	

External Threads										Internal Threads							
Thread Size	Thread Class	Major Diameter			Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max	Min		Max	Min				Max (Ref Only.)	Int.	Min	Max	
2-316-16 UNS	2A	2.1859	2.1765	2.1453	2.1399				2.1114	2-316-16 UNS	2B	2.1200	2.1340	2.1469	2.1539	2.1875	
	3A	2.1875	2.1781	2.1469	2.1428			2.1130	2.1200		2.1283	2.1469	2.1521	2.1875			
2-1/4 - 4 1/2 UNC	1A	2.2471	2.2141	2.1028	2.0882				1.9824	2-1/4 - 4 1/2 UNC	1B	2.0090	2.0450	2.1057	2.1247	2.2500	
	2A	2.2471	2.2251	2.1028	2.0931			1.9824	2.0090		2.0450	2.1057	2.1183	2.2500			
	3A	2.2500	2.2280	2.1057	2.0984			1.9853	2.0090		2.0361	2.1057	2.1152	2.2500			
2-14-6 UN	2A	2.2474	2.2292	2.1391	2.1303				2.0490	2-14-6 UN	2B	2.0700	2.1000	2.1417	2.1531	2.2500	
	3A	2.2500	2.2318	2.1417	2.1351			2.0516	2.0700		2.0896	2.1417	2.1502	2.2500			
2-14-8 UN	2A	2.2476	2.2326	2.1664	2.1584				2.0988	2-14-8 UN	2B	2.1150	2.1400	2.1688	2.1792	2.2500	
	3A	2.2500	2.2350	2.1688	2.1628			2.1012	2.1150		2.1297	2.1688	2.1766	2.2500			
2-14-10 UNS	2A	2.2480	2.2351	2.1830	2.1765				2.1290	2-14-10 UNS	2B	2.1420	2.1630	2.1850	2.1935	2.2500	
2-14-12 UN	2A	2.2482	2.2368	2.1941	2.1880				2.1490	2-14-12 UN	2B	2.1600	2.1780	2.1959	2.2038	2.2500	
	3A	2.2500	2.2386	2.1959	2.1914			2.1508	2.1600		2.1698	2.1959	2.2018	2.2500			
2-14-14 UNS	2A	2.2483	2.2380	2.2019	2.1962				2.1633	2-14-14 UNS	2B	2.1730	2.1880	2.2036	2.2110	2.2500	
2-14-16 UN	2A	2.2484	2.2390	2.2078	2.2024				2.1739	2-14-16 UN	2B	2.1820	2.1960	2.2094	2.2164	2.2500	
	3A	2.2500	2.2406	2.2094	2.2053			2.1755	2.1820		2.1908	2.2094	2.2146	2.2500			
2-14-18 UNS	2A	2.2485	2.2398	2.2124	2.2073				2.1824	2-14-18 UNS	2B	2.1900	2.2030	2.2139	2.2206	2.2500	
2-14-20 UN	2A	2.2485	2.2404	2.2160	2.2111				2.1890	2-14-20 UN	2B	2.1960	2.2070	2.2175	2.2239	2.2500	
	3A	2.2500	2.2419	2.2175	2.2137			2.1905	2.1960		2.2037	2.2175	2.2223	2.2500			
2-516-16 UNS	2A	2.3108	2.3014	2.2702	2.2647				2.2363	2-516-16 UNS	2B	2.2450	2.2590	2.2719	2.2791	2.3125	
	3A	2.3125	2.3031	2.2719	2.2678			2.2380	2.2450		2.2533	2.2719	2.2773	2.3125			
2-38-6 UN	2A	2.3723	2.3541	2.2640	2.2551				2.1739	2-38-6 UN	2B	2.1950	2.2260	2.2667	2.2782	2.3750	
	3A	2.3750	2.3568	2.2667	2.2601			2.1766	2.1950		2.2146	2.2667	2.2753	2.3750			
2-38-8 UN	2A	2.3726	2.3576	2.2914	2.2833				2.2238	2-38-8 UN	2B	2.2400	2.2650	2.2938	2.3043	2.3750	
	3A	2.3750	2.3600	2.2938	2.2878			2.2262	2.2400		2.2547	2.2938	2.3017	2.3750			
2-38-12 UN	2A	2.3731	2.3617	2.3190	2.3128				2.2739	2-38-12 UN	2B	2.2850	2.3030	2.3209	2.3290	2.3750	
	3A	2.3750	2.3636	2.3209	2.3163			2.2758	2.2850		2.2948	2.3209	2.3269	2.3750			
2-38-16 UN	2A	2.3733	2.3639	2.3327	2.3272				2.2988	2-38-16 UN	2B	2.3070	2.3210	2.3344	2.3416	2.3750	
	3A	2.3750	2.3656	2.3344	2.3303			2.3005	2.3070		2.3158	2.3344	2.3398	2.3750			

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
2-3/8-20 UN	2A	2.3735	2.3654	2.3410	2.3359				2.3140	2-3/8-20 UN	2B	2.3210	2.3320	2.3425	2.3491	2.3750
	3A	2.3750	2.3669	2.3425	2.3387				2.3155		3B	2.3210	2.3287	2.3425	2.3475	2.3750
2-7/16-16 UNS	2A	2.4358	2.4264	2.3952	2.3897				2.3613	2-7/16-16 UNS	2B	2.3700	2.3840	2.3969	2.4041	2.4375
	3A	2.4375	2.4281	2.3969	2.3928				2.3630		3B	2.3700	2.3783	2.3969	2.4023	2.4375
2-1/2-4 UNC	1A	2.4969	2.4612	2.3345	2.3190				2.1992	2-1/2-4 UNC	1B	2.2290	2.2670	2.3376	2.3578	2.5000
	2A	2.4969	2.4731	2.3345	2.3241				2.1992		2B	2.2290	2.2670	2.3376	2.3511	2.5000
	3A	2.5000	2.4762	2.3376	2.3298				2.2023		3B	2.2290	2.2594	2.3376	2.3477	2.5000
2-1/2-6 UN	2A	2.4973	2.4791	2.3890	2.3800				2.2989	2-1/2-6 UN	2B	2.3200	2.3500	2.3917	2.4033	2.5000
	3A	2.5000	2.4818	2.3917	2.3850				2.3016		3B	2.3200	2.3396	2.3917	2.4004	2.5000
2-1/2-8 UN	2A	2.4976	2.4826	2.4164	2.4082				2.3488	2-1/2-8 UN	2B	2.3650	2.3900	2.4188	2.4294	2.5000
	3A	2.5000	2.4850	2.4188	2.4127				2.3512		3B	2.3650	2.3797	2.4188	2.4268	2.5000
2-1/2-10 UNS	2A	2.4980	2.4851	2.4330	2.4263				2.3790	2-1/2-10 UNS	2B	2.3920	2.4130	2.4350	2.4437	2.5000
2-1/2-12 UN	2A	2.4981	2.4867	2.4440	2.4378				2.3989	2-1/2-12 UN	2B	2.4100	2.4280	2.4459	2.4540	2.5000
	3A	2.5000	2.4886	2.4459	2.4413				2.4008		3B	2.4100	2.4198	2.4459	2.4519	2.5000
2-1/2-14 UNS	2A	2.4983	2.4880	2.4519	2.4461				2.4133	2-1/2-14 UNS	2B	2.4230	2.4380	2.4536	2.4612	2.5000
2-1/2-16 UN	2A	2.4983	2.4889	2.4577	2.4522				2.4238	2-1/2-16 UN	2B	2.4320	2.4460	2.4594	2.4666	2.5000
	3A	2.5000	2.4906	2.4594	2.4553				2.4255		3B	2.4320	2.4408	2.4594	2.4648	2.5000
2-1/2-18 UNS	2A	2.4984	2.4897	2.4623	2.4570				2.4323	2-1/2-18 UNS	2B	2.4400	2.4530	2.4639	2.4708	2.5000
2-1/2-20 UN	2A	2.4985	2.4904	2.4660	2.4609				2.4390	2-1/2-20 UN	2B	2.4460	2.4570	2.4675	2.4741	2.5000
	3A	2.5000	2.4919	2.4675	2.4637				2.4405		3B	2.4460	2.4537	2.4675	2.4725	2.5000
2-5/8-6 UN	2A	2.6223	2.6041	2.5140	2.5050				2.4239	2-5/8-6 UN	2B	2.4450	2.4750	2.5167	2.5285	2.6250
	3A	2.6250	2.6068	2.5167	2.5099				2.4266		3B	2.4450	2.4646	2.5167	2.5255	2.6250
2-5/8-8 UN	2A	2.6225	2.6075	2.5413	2.5331				2.4737	2-5/8-8 UN	2B	2.4900	2.5150	2.5438	2.5545	2.6250
	3A	2.6250	2.6100	2.5438	2.5376				2.4762		3B	2.4900	2.5047	2.5438	2.5518	2.6250
2-5/8-12 UN	2A	2.6231	2.6117	2.5690	2.5628				2.5239	2-5/8-12 UN	2B	2.5350	2.5530	2.5709	2.5790	2.6250
	3A	2.6250	2.6136	2.5709	2.5663				2.5258		3B	2.5350	2.5448	2.5709	2.5769	2.6250
2-5/8-16 UN	2A	2.6233	2.6139	2.5827	2.5772				2.5488	2-5/8-16 UN	2B	2.5570	2.5710	2.5844	2.5916	2.6250
	3A	2.6250	2.6156	2.5844	2.5803				2.5505		3B	2.5570	2.5658	2.5844	2.5898	2.6250

External Threads										Internal Threads							
Thread Size	Thread Class	Major Diameter			Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max	Min		Max	Min				Max (Ref Only.)	Int.	Min	Max	
2-5/8-20 UN	2A	2.6235	2.6154	2.5910	2.5859				2.5640	2-5/8-20 UN	2B	2.5710	2.5820	2.5925	2.5991	2.6250	
	3A	2.6250	2.6169	2.5925	2.5887				2.5655		3B	2.5710	2.5787	2.5925	2.5975	2.6250	
2-3/4-4 UNC	1A	2.7468	2.7111	2.5844	2.5686				2.4491	2-3/4-4 UNC	1B	2.4790	2.5170	2.5876	2.6082	2.7500	
	2A	2.7468	2.7230	2.5844	2.5739				2.4491		2B	2.4790	2.5170	2.5876	2.6013	2.7500	
	3A	2.7500	2.7262	2.5876	2.5797				2.4523		3B	2.4790	2.5094	2.5876	2.5979	2.7500	
2-3/4-6 UN	2A	2.7473	2.7291	2.6390	2.6299				2.5489	2-3/4-6 UN	2B	2.5700	2.6000	2.6417	2.6536	2.7500	
	3A	2.7500	2.7318	2.6417	2.6349				2.5516		3B	2.5700	2.5896	2.6417	2.6506	2.7500	
2-3/4-8 UN	2A	2.7475	2.7325	2.6663	2.6580				2.5987	2-3/4-8 UN	2B	2.6150	2.6400	2.6688	2.6796	2.7500	
	3A	2.7500	2.7350	2.6688	2.6625				2.6012		3B	2.6150	2.6297	2.6688	2.6769	2.7500	
2-3/4-10 UNS	2A	2.7480	2.7351	2.6830	2.6763				2.6290	2-3/4-10 UNS	2B	2.6420	2.6630	2.6850	2.6937	2.7500	
2-3/4-12 UN	2A	2.7481	2.7367	2.6940	2.6878				2.6489	2-3/4-12 UN	2B	2.6600	2.6780	2.6959	2.7040	2.7500	
	3A	2.7500	2.7386	2.6959	2.6913				2.6508		3B	2.6600	2.6698	2.6959	2.7019	2.7500	
2-3/4-14 UNS	2A	2.7483	2.7380	2.7019	2.6961				2.6633	2-3/4-14 UNS	2B	2.6730	2.6880	2.7036	2.7112	2.7500	
2-3/4-16 UN	2A	2.7483	2.7389	2.7077	2.7022				2.6738	2-3/4-16 UN	2B	2.6820	2.6960	2.7094	2.7166	2.7500	
	3A	2.7500	2.7406	2.7094	2.7053				2.6755		3B	2.6820	2.6908	2.7094	2.7148	2.7500	
2-3/4-18 UNS	2A	2.7484	2.7397	2.7123	2.7070				2.6823	2-3/4-18 UNS	2B	2.6900	2.7030	2.7139	2.7208	2.7500	
2-3/4-20 UN	2A	2.7485	2.7404	2.7160	2.7109				2.6890	2-3/4-20 UN	2B	2.6960	2.7070	2.7175	2.7241	2.7500	
	3A	2.7500	2.7419	2.7175	2.7137				2.6905		3B	2.6960	2.7037	2.7175	2.7225	2.7500	
2-7/8-6 UN	2A	2.8722	2.8540	2.7639	2.7547				2.6738	2-7/8-6 UN	2B	2.6950	2.7250	2.7667	2.7787	2.8750	
	3A	2.8750	2.8568	2.7667	2.7598				2.6766		3B	2.6950	2.7146	2.7667	2.7757	2.8750	
2-7/8-8 UN	2A	2.8725	2.8575	2.7913	2.7829				2.7237	2-7/8-8 UN	2B	2.7400	2.7650	2.7938	2.8048	2.8750	
	3A	2.8750	2.8600	2.7938	2.7875				2.7262		3B	2.7400	2.7547	2.7938	2.8020	2.8750	
2-7/8-12 UN	2A	2.8731	2.8617	2.8190	2.8127				2.7739	2-7/8-12 UN	2B	2.7850	2.8030	2.8209	2.8291	2.8750	
	3A	2.8750	2.8636	2.8209	2.8162				2.7758		3B	2.7850	2.7948	2.8209	2.8271	2.8750	
2-7/8-16 UN	2A	2.8733	2.8639	2.8327	2.8271				2.7988	2-7/8-16 UN	2B	2.8070	2.8210	2.8344	2.8417	2.8750	
	3A	2.8750	2.8656	2.8344	2.8302				2.8005		3B	2.8070	2.8158	2.8344	2.8399	2.8750	
2-7/8-20 UN	2A	2.8734	2.8653	2.8409	2.8357				2.8139	2-7/8-20 UN	2B	2.8210	2.8320	2.8425	2.8493	2.8750	
	3A	2.8750	2.8669	2.8425	2.8386				2.8155		3B	2.8210	2.8287	2.8425	2.8476	2.8750	

External Threads										Internal Threads							
Thread Size	Thread Class	Major Diameter			Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max	Min		Max	Min				Max (Ref Only.)	Int.	Min	Max	
3-4 UNC	1A	2.9968	2.9611	2.8344	2.8183				2.6991	3-4 UNC	1B	2.7290	2.7670	2.8376	2.8585	3.0000	
	2A	2.9968	2.9730	2.8344	2.8237			2.6991	2B		2.7290	2.7670	2.8376	2.8515	3.0000		
	3A	3.0000	2.9762	2.8376	2.8296			2.7023	3B		2.7290	2.7594	2.8376	2.8480	3.0000		
3-6 UN	2A	2.9972	2.9790	2.8889	2.8796			2.7988	3-6 UN	2B	2.8200	2.8500	2.8917	2.9038	3.0000		
	3A	3.0000	2.9818	2.8917	2.8847			2.8016		3B	2.8200	2.8396	2.8917	2.9008	3.0000		
3-8 UN	2A	2.9974	2.9824	2.9162	2.9077			2.8486	3-8 UN	2B	2.8650	2.8900	2.9188	2.9299	3.0000		
	3A	3.0000	2.9850	2.9188	2.9124			2.8512		3B	2.8650	2.8797	2.9188	2.9271	3.0000		
3-10 UNS	2A	2.9980	2.9851	2.9330	2.9262			2.8790	3-10 UNS	2B	2.8920	2.9130	2.9350	2.9439	3.0000		
3-12 UN	2A	2.9981	2.9867	2.9440	2.9377			2.8989	3-12 UN	2B	2.9100	2.9280	2.9459	2.9541	3.0000		
	3A	3.0000	2.9886	2.9459	2.9412			2.9008		3B	2.9100	2.9198	2.9459	2.9521	3.0000		
3-14 UNS	2A	2.9982	2.9879	2.9518	2.9459			2.9132	3-14 UNS	2B	2.9230	2.9380	2.9536	2.9613	3.0000		
3-16 UN	2A	2.9983	2.9889	2.9577	2.9521			2.9238	3-16 UN	2B	2.9320	2.9460	2.9594	2.9667	3.0000		
	3A	3.0000	2.9906	2.9594	2.9552			2.9255		3B	2.9320	2.9408	2.9594	2.9649	3.0000		
3-18 UNS	2A	2.9984	2.9897	2.9623	2.9569			2.9323	3-18 UNS	2B	2.9400	2.9530	2.9639	2.9709	3.0000		
3-20 UN	2A	2.9984	2.9903	2.9659	2.9607			2.9389	3-20 UN	2B	2.9460	2.9570	2.9675	2.9743	3.0000		
	3A	3.0000	2.9919	2.9675	2.9636			2.9405		3B	2.9460	2.9537	2.9675	2.9726	3.0000		
3-18-6 UN	2A	3.1222	3.1040	3.0139	3.0045			2.9238	3-18-6 UN	2B	2.9450	2.9750	3.0167	3.0289	3.1250		
	3A	3.1250	3.1068	3.0167	3.0097			2.9266		3B	2.9450	2.9646	3.0167	3.0259	3.1250		
3-18-8 UN	2A	3.1224	3.1074	3.0412	3.0326			2.9736	3-18-8 UN	2B	2.9900	3.0150	3.0438	3.0550	3.1250		
	3A	3.1250	3.1100	3.0438	3.0374			2.9762		3B	2.9900	3.0047	3.0438	3.0522	3.1250		
3-18-12 UN	2A	3.1231	3.1117	3.0690	3.0627			3.0239	3-18-12 UN	2B	3.0350	3.0530	3.0709	3.0791	3.1250		
	3A	3.1250	3.1136	3.0709	3.0662			3.0258		3B	3.0350	3.0448	3.0709	3.0771	3.1250		
3-18-16 UN	2A	3.1233	3.1139	3.0827	3.0771			3.0488	3-18-16 UN	2B	3.0570	3.0710	3.0844	3.0917	3.1250		
	3A	3.1250	3.1156	3.0844	3.0802			3.0505		3B	3.0570	3.0658	3.0844	3.0899	3.1250		
3-14-4 UNC	1A	3.2467	3.2110	3.0843	3.0680			2.9490	3-14-4 UNC	1B	2.9790	3.0170	3.0876	3.1088	3.2500		
	2A	3.2467	3.2229	3.0843	3.0734			2.9490		2B	2.9790	3.0170	3.0876	3.1017	3.2500		
	3A	3.2500	3.2262	3.0876	3.0794			2.9523		3B	2.9790	3.0094	3.0876	3.0982	3.2500		
3-14-6 UN	2A	3.2472	3.2290	3.1389	3.1294			3.0488	3-14-6 UN	2B	3.0700	3.1000	3.1417	3.1540	3.2500		
	3A	3.2500	3.2318	3.1417	3.1346			3.0516		3B	3.0700	3.0896	3.1417	3.1509	3.2500		

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
3-14-8 UN	2A	3.2474	3.2324	3.1662	3.1575				3.0986	3-14-8 UN	2B	3.1150	3.1400	3.1688	3.1801	3.2500
	3A	3.2500	3.2350	3.1688	3.1623				3.1012		3B	3.1150	3.1297	3.1688	3.1773	3.2500
3-14-10 UNS	2A	3.2480	3.2351	3.1830	3.1762				3.1290	3-14-10 UNS	2B	3.1420	3.1630	3.1850	3.1939	3.2500
3-14-12 UN	2A	3.2481	3.2367	3.1940	3.1877				3.1489	3-14-12 UN	2B	3.1600	3.1780	3.1959	3.2041	3.2500
	3A	3.2500	3.2386	3.1959	3.1912				3.1508		3B	3.1600	3.1698	3.1959	3.2041	3.2500
3-14-14 UNS	2A	3.2482	3.2379	3.2018	3.1959				3.1632	3-14-14 UNS	2B	3.1730	3.1880	3.2036	3.2113	3.2500
3-14-16 UN	2A	3.2483	3.2389	3.2077	3.2021				3.1738	3-14-16 UN	2B	3.1820	3.1960	3.2094	3.2167	3.2500
	3A	3.2500	3.2406	3.2094	3.2052				3.1755		3B	3.1820	3.1908	3.2094	3.2149	3.2500
3-14-18 UNS	2A	3.2484	3.2397	3.2123	3.2069				3.1823	3-14-18 UNS	2B	3.1900	3.2030	3.2139	3.2209	3.2500
3-38-6 UN	2A	3.3721	3.3539	3.2638	3.2543				3.1737	3-38-6 UN	2B	3.1950	3.2250	3.2667	3.2791	3.3750
	3A	3.3750	3.3568	3.2667	3.2595				3.1766		3B	3.1950	3.2146	3.2667	3.2760	3.3750
3-38-8 UN	2A	3.3724	3.3574	3.2912	3.2824				3.2236	3-38-8 UN	2B	3.2400	3.2650	3.2938	3.3052	3.3750
	3A	3.3750	3.3600	3.2938	3.2872				3.2262		3B	3.2400	3.2547	3.2938	3.3023	3.3750
3-38-12 UN	2A	3.3731	3.3617	3.3190	3.3126				3.2739	3-38-12 UN	2B	3.2850	3.3030	3.3209	3.3293	3.3750
	3A	3.3750	3.3636	3.3209	3.3161				3.2758		3B	3.2850	3.2948	3.3209	3.3272	3.3750
3-38-16 UN	2A	3.3733	3.3639	3.3327	3.3269				3.2988	3-38-16 UN	2B	3.3070	3.3210	3.3344	3.3419	3.3750
	3A	3.3750	3.3656	3.3344	3.3301				3.3005		3B	3.3070	3.3158	3.3344	3.3400	3.3750
3-12-4 UNC	1A	3.4967	3.4610	3.3343	3.3177				3.1990	3-12-4 UNC	1B	3.2290	3.2670	3.3376	3.3591	3.5000
	2A	3.4967	3.4729	3.3343	3.3233				3.1990		2B	3.2290	3.2670	3.3376	3.3519	3.5000
	3A	3.5000	3.4762	3.3376	3.3293				3.2023		3B	3.2290	3.2594	3.3376	3.3484	3.5000
3-12-6 UN	2A	3.4971	3.4789	3.3888	3.3792				3.2987	3-12-6 UN	2B	3.3200	3.3500	3.3917	3.4042	3.5000
	3A	3.5000	3.4818	3.3917	3.3845				3.3016		3B	3.3200	3.3396	3.3917	3.4011	3.5000
3-12-8 UN	2A	3.4974	3.4824	3.4162	3.4074				3.3486	3-12-8 UN	2B	3.3650	3.3900	3.4188	3.4303	3.5000
	3A	3.5000	3.4850	3.4188	3.4122				3.3512		3B	3.3650	3.3797	3.4188	3.4274	3.5000
3-12-10 UNS	2A	3.4979	3.4850	3.4329	3.4260				3.3789	3-12-10 UNS	2B	3.3920	3.4130	3.4350	3.4440	3.5000
3-12-12 UN	2A	3.4981	3.4867	3.4440	3.4376				3.3989	3-12-12 UN	2B	3.4100	3.4280	3.4459	3.4543	3.5000
	3A	3.5000	3.4886	3.4459	3.4411				3.4008		3B	3.4100	3.4198	3.4459	3.4522	3.5000

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
3-12-14 UNS	2A	3.4982	3.4879	3.4518	3.4457				3.4132	3-12-14 UNS	2B	3.4230	3.4380	3.4536	3.4615	3.5000
3-12-16 UN	2A	3.4983	3.4889	3.4577	3.4519				3.4238	3-12-16 UN	2B	3.4320	3.4460	3.4594	3.4669	3.5000
	3A	3.5000	3.4906	3.4594	3.4551				3.4255		3B	3.4320	3.4408	3.4594	3.4650	3.5000
3-12-18 UNS	2A	3.4983	3.4896	3.4622	3.4567				3.4322	3-12-18 UNS	2B	3.4400	3.4530	3.4639	3.4711	3.5000
3-5-8-6 UN	2A	3.6221	3.6039	3.5138	3.5041				3.4237	3-5-8-6 UN	2B	3.4450	3.4750	3.5167	3.5293	3.6250
	3A	3.6250	3.6068	3.5167	3.5094				3.4266		3B	3.4450	3.4646	3.5167	3.5262	3.6250
3-5-8-8 UN	2A	3.6223	3.6073	3.5411	3.5322				3.4735	3-5-8-8 UN	2B	3.4900	3.5150	3.5438	3.5554	3.6250
	3A	3.6250	3.6100	3.5438	3.5371				3.4762		3B	3.4900	3.5047	3.5438	3.5525	3.6250
3-5-8-12 UN	2A	3.6231	3.6117	3.5690	3.5626				3.5239	3-5-8-12 UN	2B	3.5350	3.5530	3.5709	3.5793	3.6250
	3A	3.6250	3.6136	3.5709	3.5661				3.5258		3B	3.5350	3.5448	3.5709	3.5772	3.6250
3-5-8-16 UN	2A	3.6233	3.6139	3.5827	3.5769				3.5488	3-5-8-16 UN	2B	3.5570	3.5710	3.5844	3.5919	3.6250
	3A	3.6250	3.6156	3.5844	3.5801				3.5505		3B	3.5570	3.5658	3.5844	3.5900	3.6250
3-3-4-4 UNC	1A	3.7466	3.7109	3.5842	3.5674				3.4489	3-3-4-4 UNC	1B	3.4790	3.5170	3.5876	3.6094	3.7500
	2A	3.7466	3.7228	3.5842	3.5730				3.4489		2B	3.4790	3.5170	3.5876	3.6021	3.7500
	3A	3.7500	3.7262	3.5876	3.5792				3.4523		3B	3.4790	3.5094	3.5876	3.5985	3.7500
3-3-4-6 UN	2A	3.7471	3.7289	3.6388	3.6290				3.5487	3-3-4-6 UN	2B	3.5700	3.6000	3.6417	3.6544	3.7500
	3A	3.7500	3.7318	3.6417	3.6344				3.5516		3B	3.5700	3.5896	3.6417	3.6512	3.7500
3-3-4-8 UN	2A	3.7473	3.7323	3.6661	3.6571				3.5985	3-3-4-8 UN	2B	3.6150	3.6400	3.6688	3.6805	3.7500
	3A	3.7500	3.7350	3.6688	3.6621				3.6012		3B	3.6150	3.6297	3.6688	3.6776	3.7500
3-3-4-10 UNS	2A	3.7479	3.7350	3.6829	3.6760				3.6289	3-3-4-10 UNS	2B	3.6420	3.6630	3.6850	3.6940	3.7500
3-3-4-12 UN	2A	3.7481	3.7367	3.6940	3.6876				3.6489	3-3-4-12 UN	2B	3.6600	3.6780	3.6959	3.7043	3.7500
	3A	3.7500	3.7386	3.6959	3.6911				3.6508		3B	3.6600	3.6698	3.6959	3.7022	3.7500
3-3-4-14 UNS	2A	3.7482	3.7379	3.7018	3.6957				3.6632	3-3-4-14 UNS	2B	3.6730	3.6880	3.7036	3.7115	3.7500
3-3-4-16 UN	2A	3.7483	3.7389	3.7077	3.7019				3.6738	3-3-4-16 UN	2B	3.6820	3.6960	3.7094	3.7169	3.7500
	3A	3.7500	3.7406	3.7094	3.7051				3.6755		3B	3.6820	3.6908	3.7094	3.7150	3.7500
3-3-4-18 UNS	2A	3.7483	3.7396	3.7122	3.7067				3.6822	3-3-4-18 UNS	2B	3.6900	3.7030	3.7139	3.7211	3.7500

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
3-7/8-6 UN	2A	3.8720	3.8538	3.7637	3.7538				3.6736	3-7/8-6 UN	2B	3.6950	3.7250	3.7667	3.7795	3.8750
	3A	3.8750	3.8568	3.7667	3.7593				3.6766		3B	3.6950	3.7146	3.7667	3.7763	3.8750
3-7/8-8 UN	2A	3.8723	3.8573	3.7911	3.7820				3.7235	3-7/8-8 UN	2B	3.7400	3.7650	3.7938	3.8056	3.8750
	3A	3.8750	3.8600	3.7938	3.7870				3.7262		3B	3.7400	3.7547	3.7938	3.8026	3.8750
3-7/8-12 UN	2A	3.8730	3.8616	3.8189	3.8124				3.7738	3-7/8-12 UN	2B	3.7850	3.8030	3.8209	3.8294	3.8750
	3A	3.8750	3.8636	3.8209	3.8160				3.7758		3B	3.7850	3.7948	3.8209	3.8273	3.8750
3-7/8-16 UN	2A	3.8732	3.8638	3.8326	3.8267				3.7987	3-7/8-16 UN	2B	3.8070	3.8210	3.8344	3.8420	3.8750
	3A	3.8750	3.8656	3.8344	3.8300				3.8005		3B	3.8070	3.8158	3.8344	3.8401	3.8750
4-4 UNC	1A	3.9966	3.9609	3.8342	3.8172				3.6989	4-4 UNC	1B	3.7290	3.7670	3.8376	3.8597	4.0000
	2A	3.9966	3.9728	3.8342	3.8229				3.6989		2B	3.7290	3.7670	3.8376	3.8523	4.0000
	3A	4.0000	3.9762	3.8376	3.8291				3.7023		3B	3.7290	3.7594	3.8376	3.8487	4.0000
4-6 UN	2A	3.9970	3.9788	3.8887	3.8788				3.7986	4-6 UN	2B	3.8200	3.8500	3.8917	3.9046	4.0000
	3A	4.0000	3.9818	3.8917	3.8843				3.8016		3B	3.8200	3.8396	3.8917	3.9014	4.0000
4-8 UN	2A	3.9973	3.9823	3.9161	3.9070				3.8485	4-8 UN	2B	3.8650	3.8900	3.9188	3.9307	4.0000
	3A	4.0000	3.9850	3.9188	3.9120				3.8512		3B	3.8650	3.8797	3.9188	3.9277	4.0000
4-10 UNS	2A	3.9979	3.9850	3.9329	3.9259				3.8768	4-10 UNS	2B	3.8920	3.9130	3.9350	3.9441	4.0000
4-12 UN	2A	3.9980	3.9866	3.9439	3.9374				3.8988	4-12 UN	2B	3.9100	3.9280	3.9459	3.9544	4.0000
	3A	4.0000	3.9886	3.9459	3.9410				3.9008		3B	3.9100	3.9198	3.9459	3.9523	4.0000
4-14 UNS	2A	3.9982	3.9879	3.9518	3.9456				3.9132	4-14 UNS	2B	3.9230	3.9380	3.9536	3.9616	4.0000
4-16 UN	2A	3.9982	3.9888	3.9576	3.9517				3.9237	4-16 UN	2B	3.9320	3.9460	3.9594	3.9670	4.0000
	3A	4.0000	3.9906	3.9594	3.9550				3.9255		3B	3.9320	3.9408	3.9594	3.9651	4.0000
4-14-10 UNS	2A	4.2479	4.2350	4.1829	4.1759				4.1289	4-14-10 UNS	2B	4.1420	4.1630	4.1850	4.1941	4.2500
4-14-14 UNS	2A	4.2482	4.2379	4.2018	4.1956				4.1632	4-14-14 UNS	2B	4.1730	4.1880	4.2036	4.2116	4.2500
4-14-12 UN	2A	4.2480	4.2366	4.1939	4.1874				4.1488	4-14-12 UN	2B	4.1600	4.1780	4.1959	4.2044	4.2500
	3A	4.2500	4.2386	4.1959	4.1910				4.1508		3B	4.1600	4.1698	4.1959	4.2023	4.2500
4-14-16 UN	2A	4.2482	4.2388	4.2076	4.2017				4.1737	4-14-16 UN	2B	4.1820	4.1960	4.2094	4.2170	4.2500
	3A	4.2500	4.2406	4.2094	4.2050				4.1755		3B	4.1820	4.1900	4.2094	4.2151	4.2500
4-12-10 UNS	2A	4.4979	4.4850	4.4329	4.4259				4.3789	4-12-10 UNS	2B	4.3920	4.4130	4.4350	4.4441	4.5000
4-12-12 UN	2A	4.4980	4.4866	4.4439	4.4374				4.3988	4-12-12 UN	2B	4.4100	4.4280	4.4459	4.4544	4.5000
	3A	4.5000	4.4886	4.4459	4.4410				4.4008		3B	4.4100	4.4198	4.4459	4.4523	4.5000

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
4-12-16 UN	2A	4.4982	4.4888	4.4576	4.4517				4.4237	4-12-16 UN	2B	4.4320	4.4460	4.4594	4.4670	4.5000
	3A	4.5000	4.4906	4.4594	4.4550				4.4255		3B	4.4320	4.4408	4.4594	4.4651	4.5000
4-34-10 UNS	2A	4.7478	4.7349	4.6828	4.6756				4.6288	4-34-10 UNS	2B	4.6420	4.6630	4.6850	4.6944	4.7500
4-34-14 UNS	2A	4.7481	4.7378	4.7017	4.6953				4.6631	4-34-14 UNS	2B	4.6730	4.6880	4.7036	4.7119	4.7500
4-34-12 UN	2A	4.7480	4.7366	4.6939	4.6872				4.6488	4-34-12 UN	2B	4.6600	4.6780	4.6959	4.7046	4.7500
	3A	4.7500	4.7386	4.6959	4.6909				4.6508		3B	4.6600	4.6698	4.6959	4.7025	4.7500
4-34-16 UN	2A	4.7482	4.7388	4.7076	4.7015				4.6737	4-34-16 UN	2B	4.6820	4.6960	4.7094	4.7173	4.7500
	3A	4.7500	4.7406	4.7094	4.7049				4.6755		3B	4.6820	4.6908	4.7094	4.7153	4.7500
5-10 UNS	2A	4.9978	4.9849	4.9328	4.9256				4.8788	5-10 UNS	2B	4.8920	4.9130	4.9350	4.9444	5.0000
5-14 UNS	2A	4.9981	4.9878	4.9517	4.9453				4.9131	5-14 UNS	2B	4.9230	4.9380	4.9536	4.9619	5.0000
5-12 UN	2A	4.9980	4.9866	4.9439	4.9372				4.8988	5-12 UN	2B	4.9100	4.9280	4.9459	4.9546	5.0000
	3A	5.0000	4.9886	4.9459	4.9409				4.9008		3B	4.9100	4.9198	4.9459	4.9525	5.0000
5-16 UN	2A	4.9982	4.9888	4.9576	4.9515				4.9237	5-16 UN	2B	4.9320	4.9460	4.9594	4.9673	5.0000
	3A	5.0000	4.9906	4.9594	4.9549				4.9255		3B	4.9320	4.9408	4.9594	4.9653	5.0000
5-14-10 UNS	2A	5.2478	5.2349	5.1829	5.1756				5.1288	5-14-10 UNS	2B	5.1420	5.1630	5.1850	5.1944	5.2500
5-14-14 UNS	2A	5.2481	5.2378	5.2017	5.1953				5.1631	5-14-14 UNS	2B	5.1730	5.1880	5.2036	5.2119	5.2500
5-14-12 UN	2A	5.2480	5.2366	5.1939	5.1872				5.1488	5-14-12 UN	2B	5.1600	5.1780	5.1959	5.2046	5.2500
	3A	5.2500	5.2386	5.1959	5.1909				5.1508		3B	5.1600	5.1698	5.1959	5.2025	5.2500
5-14-16 UN	2A	5.2482	5.2388	5.2076	5.2015				5.1737	5-14-16 UN	2B	5.1820	5.1960	5.2094	5.2173	5.2500
	3A	5.2500	5.2406	5.2094	5.2049				5.1755		3B	5.1820	5.1908	5.2094	5.2153	5.2500
5-12-10 UNS	2A	5.4978	5.4849	5.4328	5.4256				5.3788	5-12-10 UNS	2B	5.3920	5.4130	5.4350	5.4444	5.5000
5-12-14 UNS	2A	5.4981	5.4878	5.4517	5.4453				5.4131	5-12-14 UNS	2B	5.4230	5.4380	5.4536	5.4619	5.5000
5-12-12 UN	2A	5.4980	5.4866	5.4439	5.4372				5.3988	5-12-12 UN	2B	5.4100	5.4280	5.4459	5.4546	5.5000
	3A	5.5000	5.4886	5.4459	5.4409				5.4008		3B	5.4100	5.4198	5.4459	5.4525	5.5000
5-12-16 UN	2A	5.4982	5.4888	5.4576	5.4515				5.4237	5-12-16 UN	2B	5.4320	5.4460	5.4594	5.4673	5.5000
	3A	5.5000	5.4906	5.4594	5.4549				5.4255		3B	5.4320	5.4408	5.4594	5.4653	5.5000

External Threads										Internal Threads						
Thread Size	Thread Class	Major Diameter		Pitch Diameter		Best Wire Size	Measurement Over Wires		Minor Diameter	Thread Size	Thread Class	Minor Diameter		Pitch Diameter		Major Diameter
		Ext.	Max	Min	Max		Min	Max				Min	Max (Ref Only.)	Int.	Min	
5-34-10 UNS	2A	5.7478	5.7349	5.6828	5.6754				5.6288	5-34-10 UNS	2B	5.6420	5.6630	5.6850	5.6946	5.7500
5-34-14 UNS	2A	5.7480	5.7377	5.7016	5.6951				5.6630	5-34-14 UNS	2B	5.6730	5.6880	5.7036	5.7121	5.7500
5-34-12 UN	2A	5.7479	5.7365	5.6938	5.6869				5.6487	5-34-12 UN	2B	5.6600	5.6780	5.6959	5.7049	5.7500
	3A	5.7500	5.7386	5.6959	5.6907				5.6508		3B	5.6600	5.6698	5.6959	5.7026	5.7500
5-34-16 UN	2A	5.7481	5.7387	5.7075	5.7013				5.6736	5-34-16 UN	2B	5.6820	5.6960	5.7094	5.7175	5.7500
	3A	5.7500	5.7406	5.7094	5.7047				5.6755		3B	5.6820	5.6908	5.7094	5.7155	5.7500
6-10 UNS	2A	5.9978	5.9849	5.9328	5.9254				5.8788	6-10 UNS	2B	5.8920	5.9130	5.9350	5.9446	6.0000
6-14 UNS	2A	5.9980	5.9877	5.9516	5.9451				5.9130	6-14 UNS	2B	5.9230	5.9380	5.9536	5.9621	6.0000
6-12 UN	2A	5.9979	5.9865	5.9438	5.9369				5.8987	6-12 UN	2B	5.9100	5.9280	5.9459	5.9549	6.0000
	3A	6.0000	5.9886	5.9459	5.9407				5.9008		3B	5.9100	5.9198	5.9459	5.9526	6.0000
6-16 UN	2A	5.9981	5.9887	5.9575	5.9513				5.9236	6-16 UN	2B	5.9320	5.9460	5.9594	5.9675	6.0000
	3A	6.0000	5.9906	5.9594	5.9547				5.9255		3B	5.9320	5.9408	5.9594	5.9655	6.0000

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