

EXTERNAL THREAD DIMENSIONS

— UNC / UNF 2A

Unified UN / UNR · classes 2A

Limits of size of the external
thread (bolt)
min-max, per the cited
standard
57 threads · 2026-10-21

Thread · major Ø min-max · pitch Ø min-max · minor Ø min-max — diameters in in

#0-80 UNF	0.0563–0.0595	0.0496–0.0514	0.0415–0.0442
#1-72 UNF	0.0689–0.0724	0.0615–0.0634	0.0525–0.0554
#1-64 UNC	0.0686–0.0724	0.0603–0.0623	0.0502–0.0532
#2-64 UNF	0.0816–0.0854	0.0733–0.0753	0.0632–0.0662
#2-56 UNC	0.0813–0.0854	0.0717–0.0738	0.0601–0.0635
#3-56 UNF	0.0942–0.0983	0.0845–0.0867	0.0729–0.0764
#3-48 UNC	0.0938–0.0983	0.0825–0.0848	0.0690–0.0727
#4-48 UNF	0.1068–0.1113	0.0954–0.0978	0.0819–0.0857
#4-40 UNC	0.1061–0.1112	0.0925–0.0950	0.0763–0.0805
#5-44 UNF	0.1195–0.1243	0.1070–0.1095	0.0922–0.0964
#5-40 UNC	0.1191–0.1242	0.1054–0.1080	0.0892–0.0935
#6-40 UNF	0.1321–0.1372	0.1184–0.1210	0.1022–0.1065
#6-32 UNC	0.1312–0.1372	0.1141–0.1169	0.0938–0.0989
#8-36 UNF	0.1577–0.1632	0.1424–0.1452	0.1244–0.1291
#8-32 UNC	0.1571–0.1631	0.1399–0.1428	0.1196–0.1248
#10-32 UNF	0.1831–0.1891	0.1658–0.1688	0.1455–0.1508
#10-24 UNC	0.1818–0.1890	0.1586–0.1619	0.1315–0.1379
#12-28 UNF	0.2085–0.2150	0.1886–0.1918	0.1654–0.1712
#12-24 UNC	0.2078–0.2150	0.1845–0.1879	0.1574–0.1639
1/4-28 UNF	0.2425–0.2490	0.2225–0.2258	0.1993–0.2052
1/4-20 UNC	0.2408–0.2489	0.2127–0.2164	0.1802–0.1876
5/16-24 UNF	0.3042–0.3114	0.2806–0.2843	0.2535–0.2603
5/16-18 UNC	0.3026–0.3113	0.2712–0.2752	0.2351–0.2431
3/8-24 UNF	0.3667–0.3739	0.3430–0.3468	0.3159–0.3228
3/8-16 UNC	0.3643–0.3737	0.3287–0.3331	0.2881–0.2970
7/16-20 UNF	0.4281–0.4362	0.3995–0.4037	0.3670–0.3749
7/16-14 UNC	0.4258–0.4361	0.3850–0.3897	0.3386–0.3485
1/2-20 UNF	0.4906–0.4987	0.4619–0.4662	0.4294–0.4374
1/2-13 UNC	0.4876–0.4985	0.4435–0.4485	0.3935–0.4041
9/16-18 UNF	0.5524–0.5611	0.5205–0.5250	0.4844–0.4929
9/16-12 UNC	0.5495–0.5609	0.5016–0.5068	0.4475–0.4587
5/8-18 UNF	0.6149–0.6236	0.5828–0.5875	0.5467–0.5554
5/8-11 UNC	0.6112–0.6233	0.5588–0.5643	0.4998–0.5118
3/4-16 UNF	0.7391–0.7485	0.7029–0.7079	0.6623–0.6718
3/4-10 UNC	0.7353–0.7482	0.6773–0.6832	0.6123–0.6255
7/8-14 UNF	0.8631–0.8734	0.8216–0.8270	0.7752–0.7858

7/8-9 UNC	0.8592–0.8731	0.7946–0.8009	0.7224–0.7368
1-12 UNF	0.9868–0.9982	0.9382–0.9441	0.8841–0.8960
1-8 UNC	0.9830–0.9980	0.9101–0.9168	0.8289–0.8446
1-1/8-12 UNF	1.1118–1.1232	1.0631–1.0691	1.0090–1.0210
1-1/8-7 UNC	1.1064–1.1228	1.0228–1.0300	0.9300–0.9475
1-1/4-12 UNF	1.2368–1.2482	1.1879–1.1941	1.1338–1.1460
1-1/4-7 UNC	1.2314–1.2478	1.1476–1.1550	1.0548–1.0725
1-3/8-12 UNF	1.3617–1.3731	1.3127–1.3190	1.2586–1.2709
1-3/8-6 UNC	1.3544–1.3726	1.2563–1.2643	1.1480–1.1681
1-1/2-12 UNF	1.4867–1.4981	1.4376–1.4440	1.3835–1.3959
1-1/2-6 UNC	1.4794–1.4976	1.3812–1.3893	1.2729–1.2931
1-3/4-5 UNC	1.7268–1.7473	1.6085–1.6174	1.4786–1.5019
2-4.5 UNC	1.9751–1.9971	1.8433–1.8528	1.6990–1.7245
2-1/4-4.5 UNC	2.2251–2.2471	2.0931–2.1028	1.9488–1.9745
2-1/2-4 UNC	2.4731–2.4969	2.3241–2.3345	2.1617–2.1902
2-3/4-4 UNC	2.7230–2.7468	2.5739–2.5844	2.4115–2.4401
3-4 UNC	2.9730–2.9968	2.8237–2.8344	2.6613–2.6901
3-1/4-4 UNC	3.2229–3.2467	3.0734–3.0843	2.9110–2.9400
3-1/2-4 UNC	3.4729–3.4967	3.3233–3.3343	3.1609–3.1900
3-3/4-4 UNC	3.7228–3.7466	3.5730–3.5842	3.4106–3.4399
4-4 UNC	3.9728–3.9966	3.8229–3.8342	3.6605–3.6899