

3 inch Copper L (Blue) Chime Length Calculator for the C-9 Chord (C E G B^b D) Inches A-440 For a Tube or Rod unrestricted at both ends

To determine the resonant frequency for a rod set the ID=0 and enter the OD and Metal Type

Enter values in BLUE, answers in ORANGE (inches) and in YELLOW (mm)

OD inches = 3.125		ID inches = 2.945		Metal = Copper < Click to Select							
Wall = 0.090 inches		Length calculated for fundamental F Hang Point is for fundamental F node									
Note	Freq Hz	Length inches	Hang Point	Length mm	Hang Point	Note	Freq Hz	Length inches	Hang Point	Length mm	Hang Point
C1	32.70	127 3/16	28 1/2	3230.6	724.3	C5	523.30	31 13/16	7 1/8	808.0	181.2
E	41.21	113 5/16	25 3/8	2878.1	645.3	E	659.30	28 5/16	6 3/8	719.1	161.2
G	49.00	103 15/16	23 5/16	2640.0	591.9	G	784.00	26	5 13/16	660.4	148.1
A [#] /B ^b	58.30	95 1/4	21 3/8	2419.4	542.4	A [#] /B ^b	932.30	23 13/16	5 5/16	604.8	135.6
D2	73.41	84 7/8	19	2155.8	483.3	D6	1,174.61	21 1/4	4 3/4	539.8	121.0
Total feet =		43.7	Total cm=	1332.4		Total feet required		10.9	Total cm=	333.2	
C2	65.40	89 15/16	20 3/16	2284.4	512.2	C6	1,046.50	22 1/2	5 1/16	571.5	128.1
E	82.40	80 1/8	17 15/16	2035.2	456.3	E	1,318.50	20 1/16	4 1/2	509.6	114.2
G	98.01	73 1/2	16 1/2	1866.9	418.6	G	1,568.00	18 3/8	4 1/8	466.7	104.6
A [#] /B ^b	116.50	67 3/8	15 1/8	1711.3	383.7	A [#] /B ^b	1,864.60	16 7/8	3 13/16	428.6	96.1
D3	146.80	60 1/16	13 7/16	1525.6	342.0	D7	2,349.20	15	3 3/8	381.0	85.4
Total feet required		30.9	Total cm=	942.3		Total feet required		7.7	Total cm=	235.7	
C3	130.81	63 5/8	14 1/4	1616.1	362.3	C7	2,093.00	15 7/8	3 9/16	403.2	90.4
E	164.80	56 11/16	12 11/16	1439.9	322.8	E	2,637.00	14 3/16	3 3/16	360.4	80.8
G	196.00	51 15/16	11 5/8	1319.2	295.8	G	3,136.00	13	2 15/16	330.2	74.0
A [#] /B ^b	233.10	47 5/8	10 11/16	1209.7	271.2	A [#] /B ^b	3,729.20	11 15/16	2 11/16	303.2	68.0
D4	293.70	42 7/16	9 1/2	1077.9	241.7	D8	4,698.40	10 5/8	2 3/8	269.9	60.5
Total feet required		21.9	Total cm=	666.3		Total feet required		5.5	Total cm=	166.7	
C4	261.60	45	10 1/16	1143.0	256.3						
E	329.61	40 1/16	9	1017.6	228.1						
G	392.00	36 3/4	8 1/4	933.5	209.3						
A [#] /B ^b	466.20	33 11/16	7 9/16	855.7	191.8						
D5	587.30	30	6 3/4	762.0	170.8						
Total feet required		15.5	Total cm=	471.2							
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	49 1/16	11	1246.2	279.4	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	1138.14	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					