

1 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 = 1.125		ID inches = 1.025		Metal = Copper < Click to Select							
Wall = 0.050 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	75 3/4	17	1924.1	431.4	C5	523.30	18 15/16	4 1/4	481.0	107.8
E	41.21	67 7/16	15 1/8	1712.9	384.0	E	659.30	16 7/8	3 13/16	428.6	96.1
G	49.00	61 7/8	13 7/8	1571.6	352.4	G	784.00	15 7/16	3 7/16	392.1	87.9
A [#] /B ^b	58.30	56 3/4	12 3/4	1441.5	323.2	A [#] /B ^b	932.30	14 3/16	3 3/16	360.4	80.8
D2	73.41	50 9/16	11 5/16	1284.3	287.9	D6	1,174.61	12 5/8	2 13/16	320.7	71.9
Total feet = 26.0		Total cm= 793.4		Total feet required 6.5		Total cm= 198.3					
C2	65.40	53 9/16	12	1360.5	305.0	C6	1,046.50	13 3/8	3	339.7	76.2
E	82.40	47 11/16	10 11/16	1211.3	271.6	E	1,318.50	11 15/16	2 11/16	303.2	68.0
G	98.01	43 3/4	9 13/16	1111.3	249.1	G	1,568.00	10 15/16	2 7/16	277.8	62.3
A [#] /B ^b	116.50	40 1/8	9	1019.2	228.5	A [#] /B ^b	1,864.60	10	2 1/4	254.0	56.9
D3	146.80	35 3/4	8	908.1	203.6	D7	2,349.20	8 15/16	2	227.0	50.9
Total feet required 18.4		Total cm= 561.0		Total feet required 4.6		Total cm= 140.2					
C3	130.81	37 7/8	8 1/2	962.0	215.7	C7	2,093.00	9 7/16	2 1/8	239.7	53.7
E	164.80	33 3/4	7 9/16	857.3	192.2	E	2,637.00	8 7/16	1 7/8	214.3	48.0
G	196.00	30 15/16	6 15/16	785.8	176.2	G	3,136.00	7 3/4	1 3/4	196.9	44.1
A [#] /B ^b	233.10	28 3/8	6 3/8	720.7	161.6	A [#] /B ^b	3,729.20	7 1/16	1 9/16	179.4	40.2
D4	293.70	25 1/4	5 11/16	641.4	143.8	D8	4,698.40	6 5/16	1 7/16	160.3	35.9
Total feet required 13.0		Total cm= 396.7		Total feet required 3.3		Total cm= 99.1					
C4	261.60	26 3/4	6	679.5	152.3						
E	329.61	23 7/8	5 3/8	606.4	136.0						
G	392.00	21 7/8	4 7/8	555.6	124.6						
A [#] /B ^b	466.20	20 1/16	4 1/2	509.6	114.2						
D5	587.30	17 7/8	4	454.0	101.8						
Total feet required 9.2		Total cm= 280.5									
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	29 3/16	6 9/16	741.4	166.2	Convert	2.000	inches to	50.8	mm	
	Enter L ↓						60	mm to	2 3/8	inches	
F=	403.39	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					