

### 3/4 inch Copper L (Blue) Chime Length Calculator for the C-9 Chord (C E G B<sup>b</sup> 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 = <b>0.875</b>		ID inches = <b>0.785</b>		Metal = <b>Copper</b> < Click to Select							
Wall = 0.045 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	66 9/16	14 15/16	1690.7	379.1	C5	523.30	16 5/8	3 3/4	422.3	94.7
E	41.21	59 5/16	13 5/16	1506.5	337.8	E	659.30	14 13/16	3 5/16	376.2	84.4
G	49.00	54 3/8	12 3/16	1381.1	309.6	G	784.00	13 9/16	3 1/16	344.5	77.2
A <sup>#</sup> /B <sup>b</sup>	58.30	49 7/8	11 3/16	1266.8	284.0	A <sup>#</sup> /B <sup>b</sup>	932.30	12 7/16	2 13/16	315.9	70.8
D2	73.41	44 7/16	9 15/16	1128.7	253.1	D6	1,174.61	11 1/8	2 1/2	282.6	63.4
Total feet =		22.9	Total cm=	697.4		Total feet required		5.7	Total cm=	174.1	
C2	65.40	47 1/16	10 9/16	1195.4	268.0	C6	1,046.50	11 3/4	2 5/8	298.5	66.9
E	82.40	41 15/16	9 3/8	1065.2	238.8	E	1,318.50	10 1/2	2 3/8	266.7	59.8
G	98.01	38 7/16	8 5/8	976.3	218.9	G	1,568.00	9 5/8	2 3/16	244.5	54.8
A <sup>#</sup> /B <sup>b</sup>	116.50	35 1/4	7 7/8	895.4	200.7	A <sup>#</sup> /B <sup>b</sup>	1,864.60	8 13/16	2	223.8	50.2
D3	146.80	31 7/16	7 1/16	798.5	179.0	D7	2,349.20	7 7/8	1 3/4	200.0	44.8
Total feet required		16.2	Total cm=	493.1		Total feet required		4.0	Total cm=	123.3	
C3	130.81	33 1/4	7 7/16	844.6	189.3	C7	2,093.00	8 5/16	1 7/8	211.1	47.3
E	164.80	29 5/8	6 5/8	752.5	168.7	E	2,637.00	7 7/16	1 11/16	188.9	42.4
G	196.00	27 3/16	6 1/8	690.6	154.8	G	3,136.00	6 13/16	1 1/2	173.0	38.8
A <sup>#</sup> /B <sup>b</sup>	233.10	24 15/16	5 9/16	633.4	142.0	A <sup>#</sup> /B <sup>b</sup>	3,729.20	6 1/4	1 3/8	158.8	35.6
D4	293.70	22 3/16	5	563.6	126.4	D8	4,698.40	5 9/16	1 1/4	141.3	31.7
Total feet required		11.4	Total cm=	348.5		Total feet required		2.9	Total cm=	87.3	
C4	261.60	23 9/16	5 5/16	598.5	134.2						
E	329.61	20 15/16	4 11/16	531.8	119.2						
G	392.00	19 1/4	4 5/16	489.0	109.6						
A <sup>#</sup> /B <sup>b</sup>	466.20	17 5/8	3 15/16	447.7	100.4						
D5	587.30	15 11/16	3 1/2	398.5	89.3						
Total feet required		8.1	Total cm=	246.5							
<b>Calculate Length or Frequency for ID &amp; OD entered above</b>											
Enter F=	<b>220.00</b>	25 11/16	5 3/4	652.5	146.3	<b>Convert</b>	<b>2.000</b>	inches to	50.8	mm	
		Enter L ↓					<b>60</b>	mm to	2 3/8	inches	
F=	311.58	<b>21 9/16</b>	4 13/16	547.7	122.8	<a href="https://leehite.org/Chimes.htm">https://leehite.org/Chimes.htm</a>					