

## 3/4 inch Copper M (Red) 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>0.811</b>		Metal = <b>Copper</b> < Click to Select							
Wall = 0.032 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	67 1/16	15 1/16	1703.4	381.9	C5	523.30	16 3/4	3 3/4	425.5	95.4
E	41.21	59 3/4	13 3/8	1517.7	340.3	E	659.30	14 15/16	3 3/8	379.4	85.1
G	49.00	54 3/4	12 1/4	1390.7	311.8	G	784.00	13 11/16	3 1/16	347.7	77.9
A <sup>#</sup> /B <sup>b</sup>	58.30	50 3/16	11 1/4	1274.8	285.8	A <sup>#</sup> /B <sup>b</sup>	932.30	12 9/16	2 13/16	319.1	71.5
D2	73.41	44 3/4	10 1/16	1136.7	254.8	D6	1,174.61	11 3/16	2 1/2	284.2	63.7
Total feet =		23.0	Total cm=	702.3		Total feet required		5.8	Total cm=	175.6	
C2	65.40	47 7/16	10 5/8	1204.9	270.1	C6	1,046.50	11 7/8	2 11/16	301.6	67.6
E	82.40	42 1/4	9 1/2	1073.2	240.6	E	1,318.50	10 9/16	2 3/8	268.3	60.2
G	98.01	38 3/4	8 11/16	984.3	220.7	G	1,568.00	9 11/16	2 3/16	246.1	55.2
A <sup>#</sup> /B <sup>b</sup>	116.50	35 1/2	7 15/16	901.7	202.2	A <sup>#</sup> /B <sup>b</sup>	1,864.60	8 7/8	2	225.4	50.5
D3	146.80	31 5/8	7 1/16	803.3	180.1	D7	2,349.20	7 15/16	1 3/4	201.6	45.2
Total feet required		16.3	Total cm=	496.7		Total feet required		4.1	Total cm=	124.3	
C3	130.81	33 1/2	7 1/2	850.9	190.8	C7	2,093.00	8 3/8	1 7/8	212.7	47.7
E	164.80	29 7/8	6 11/16	758.8	170.1	E	2,637.00	7 7/16	1 11/16	188.9	42.4
G	196.00	27 3/8	6 1/8	695.3	155.9	G	3,136.00	6 7/8	1 9/16	174.6	39.2
A <sup>#</sup> /B <sup>b</sup>	233.10	25 1/8	5 5/8	638.2	143.1	A <sup>#</sup> /B <sup>b</sup>	3,729.20	6 1/4	1 3/8	158.8	35.6
D4	293.70	22 3/8	5	568.3	127.4	D8	4,698.40	5 5/8	1 1/4	142.9	32.0
Total feet required		11.5	Total cm=	351.2		Total feet required		2.9	Total cm=	87.8	
C4	261.60	23 11/16	5 5/16	601.7	134.9						
E	329.61	21 1/8	4 3/4	536.6	120.3						
G	392.00	19 3/8	4 3/8	492.1	110.3						
A <sup>#</sup> /B <sup>b</sup>	466.20	17 3/4	4	450.9	101.1						
D5	587.30	15 13/16	3 9/16	401.6	90.0						
Total feet required		8.1	Total cm=	248.3							
<b>Calculate Length or Frequency for ID &amp; OD entered above</b>											
Enter F=	<b>220.00</b>	25 7/8	5 13/16	657.2	147.3	<b>Convert</b>	<b>2.000</b>	inches to	50.8	mm	
		Enter L ↓					<b>60</b>	mm to	2 3/8	inches	
F=	316.22	<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>					