

1 inch Copper M (**Red**) 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 = 1.055		Metal = Copper < Click to Select							
Wall = 0.035 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	76 1/4	17 1/8	1936.8	434.2	C5	523.30	19 1/16	4 1/4	484.2	108.6
E	41.21	67 15/16	15 1/4	1725.6	386.9	E	659.30	17	3 13/16	431.8	96.8
G	49.00	62 1/4	13 15/16	1581.2	354.5	G	784.00	15 9/16	3 1/2	395.3	88.6
A [#] /B ^b	58.30	57 1/8	12 13/16	1451.0	325.3	A [#] /B ^b	932.30	14 1/4	3 3/16	362.0	81.1
D2	73.41	50 7/8	11 3/8	1292.2	289.7	D6	1,174.61	12 3/4	2 7/8	323.9	72.6
Total feet =		26.2	Total cm=	798.7		Total feet required		6.6	Total cm=	199.7	
C2	65.40	53 15/16	12 1/16	1370.0	307.2	C6	1,046.50	13 1/2	3	342.9	76.9
E	82.40	48	10 3/4	1219.2	273.3	E	1,318.50	12	2 11/16	304.8	68.3
G	98.01	44 1/16	9 7/8	1119.2	250.9	G	1,568.00	11	2 7/16	279.4	62.6
A [#] /B ^b	116.50	40 3/8	9 1/16	1025.5	229.9	A [#] /B ^b	1,864.60	10 1/8	2 1/4	257.2	57.7
D3	146.80	36	8 1/16	914.4	205.0	D7	2,349.20	9	2	228.6	51.3
Total feet required		18.5	Total cm=	564.8		Total feet required		4.6	Total cm=	141.3	
C3	130.81	38 1/8	8 9/16	968.4	217.1	C7	2,093.00	9 1/2	2 1/8	241.3	54.1
E	164.80	33 15/16	7 5/8	862.0	193.3	E	2,637.00	8 1/2	1 7/8	215.9	48.4
G	196.00	31 1/8	7	790.6	177.2	G	3,136.00	7 13/16	1 3/4	198.4	44.5
A [#] /B ^b	233.10	28 9/16	6 3/8	725.5	162.7	A [#] /B ^b	3,729.20	7 1/8	1 5/8	181.0	40.6
D4	293.70	25 7/16	5 11/16	646.1	144.9	D8	4,698.40	6 3/8	1 7/16	161.9	36.3
Total feet required		13.1	Total cm=	399.3		Total feet required		3.3	Total cm=	99.9	
C4	261.60	26 15/16	6 1/16	684.2	153.4						
E	329.61	24	5 3/8	609.6	136.7						
G	392.00	22	4 15/16	558.8	125.3						
A [#] /B ^b	466.20	20 3/16	4 1/2	512.8	115.0						
D5	587.30	18	4 1/16	457.2	102.5						
Total feet required		9.3	Total cm=	282.3							
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	29 3/8	6 9/16	746.1	167.3	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	408.79	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					