

3 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 = 3.125		ID inches = 2.981		Metal = Copper < Click to Select							
Wall = 0.072 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 9/16	28 5/8	3240.1	726.4	C5	523.30	31 7/8	7 1/8	809.6	181.5
E	41.21	113 5/8	25 1/2	2886.1	647.1	E	659.30	28 7/16	6 3/8	722.3	161.9
G	49.00	104 1/4	23 3/8	2648.0	593.7	G	784.00	26 1/16	5 13/16	662.0	148.4
A [#] /B ^b	58.30	95 9/16	21 7/16	2427.3	544.2	A [#] /B ^b	932.30	23 7/8	5 3/8	606.4	136.0
D2	73.41	85 1/8	19 1/16	2162.2	484.8	D6	1,174.61	21 5/16	4 3/4	541.3	121.4
Total feet =		43.8	Total cm=	1336.4		Total feet required		11.0	Total cm=	334.2	
C2	65.40	90 3/16	20 1/4	2290.8	513.6	C6	1,046.50	22 9/16	5 1/16	573.1	128.5
E	82.40	80 3/8	18	2041.5	457.7	E	1,318.50	20 1/16	4 1/2	509.6	114.2
G	98.01	73 11/16	16 1/2	1871.7	419.6	G	1,568.00	18 7/16	4 1/8	468.3	105.0
A [#] /B ^b	116.50	67 9/16	15 1/8	1716.1	384.7	A [#] /B ^b	1,864.60	16 7/8	3 13/16	428.6	96.1
D3	146.80	60 3/16	13 1/2	1528.8	342.7	D7	2,349.20	15 1/16	3 3/8	382.6	85.8
Total feet required		31.0	Total cm=	944.9		Total feet required		7.8	Total cm=	236.2	
C3	130.81	63 13/16	14 5/16	1620.8	363.4	C7	2,093.00	15 15/16	3 9/16	404.8	90.8
E	164.80	56 13/16	12 3/4	1443.0	323.5	E	2,637.00	14 3/16	3 3/16	360.4	80.8
G	196.00	52 1/8	11 11/16	1324.0	296.8	G	3,136.00	13	2 15/16	330.2	74.0
A [#] /B ^b	233.10	47 13/16	10 3/4	1214.4	272.3	A [#] /B ^b	3,729.20	11 15/16	2 11/16	303.2	68.0
D4	293.70	42 9/16	9 9/16	1081.1	242.4	D8	4,698.40	10 5/8	2 3/8	269.9	60.5
Total feet required		21.9	Total cm=	668.3		Total feet required		5.5	Total cm=	166.8	
C4	261.60	45 1/8	10 1/8	1146.2	257.0						
E	329.61	40 3/16	9	1020.8	228.9						
G	392.00	36 7/8	8 1/4	936.6	210.0						
A [#] /B ^b	466.20	33 13/16	7 9/16	858.8	192.6						
D5	587.30	30 1/8	6 3/4	765.2	171.6						
Total feet required		15.5	Total cm=	472.8							
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	49 3/16	11	1249.4	280.1	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	1144.71	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					