

1/2 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 = 0.625		ID inches = 0.569		Metal = Copper < Click to Select							
Wall = 0.028 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	56 7/16	12 5/8	1433.5	321.4	C5	523.30	14 1/8	3 3/16	358.8	80.4
E	41.21	50 1/4	11 1/4	1276.4	286.2	E	659.30	12 9/16	2 13/16	319.1	71.5
G	49.00	46 1/8	10 5/16	1171.6	262.7	G	784.00	11 1/2	2 9/16	292.1	65.5
A [#] /B ^b	58.30	42 1/4	9 1/2	1073.2	240.6	A [#] /B ^b	932.30	10 9/16	2 3/8	268.3	60.2
D2	73.41	37 11/16	8 7/16	957.3	214.6	D6	1,174.61	9 7/16	2 1/8	239.7	53.7
Total feet = 19.4		Total cm= 49.3		Total feet = 4.8		Total cm= 122.0					
C2	65.40	39 15/16	8 15/16	1014.4	227.4	C6	1,046.50	10	2 1/4	254.0	56.9
E	82.40	35 9/16	8	903.3	202.5	E	1,318.50	8 7/8	2	225.4	50.5
G	98.01	32 5/8	7 5/16	828.7	185.8	G	1,568.00	8 1/8	1 13/16	206.4	46.3
A [#] /B ^b	116.50	29 7/8	6 11/16	758.8	170.1	A [#] /B ^b	1,864.60	7 1/2	1 11/16	190.5	42.7
D3	146.80	26 5/8	6	676.3	151.6	D7	2,349.20	6 11/16	1 1/2	169.9	38.1
Total feet required 13.7		Total cm= 34.8		Total feet required 3.4		Total cm= 86.4					
C3	130.81	28 3/16	6 5/16	716.0	160.5	C7	2,093.00	7 1/16	1 9/16	179.4	40.2
E	164.80	25 1/8	5 5/8	638.2	143.1	E	2,637.00	6 5/16	1 7/16	160.3	35.9
G	196.00	23 1/16	5 3/16	585.8	131.3	G	3,136.00	5 3/4	1 5/16	146.1	32.7
A [#] /B ^b	233.10	21 1/8	4 3/4	536.6	120.3	A [#] /B ^b	3,729.20	5 5/16	1 3/16	134.9	30.3
D4	293.70	18 13/16	4 3/16	477.8	107.1	D8	4,698.40	4 11/16	1 1/16	119.1	26.7
Total feet required 9.7		Total cm= 24.7		Total feet required 2.4		Total cm= 61.0					
C4	261.60	19 15/16	4 1/2	506.4	113.5						
E	329.61	17 3/4	4	450.9	101.1						
G	392.00	16 5/16	3 11/16	414.3	92.9						
A [#] /B ^b	466.20	14 15/16	3 3/8	379.4	85.1						
D5	587.30	13 5/16	3	338.1	75.8						
Total feet required 6.9		Total cm= 17.5									
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	21 3/4	4 7/8	552.5	123.9	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	224.03	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					