

1.5 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 = 1.625		ID inches = 1.527		Metal = Copper < Click to Select							
Wall = 0.049 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	91 11/16	20 9/16	2328.9	522.1	C5	523.30	22 15/16	5 1/8	582.6	130.6
E	41.21	81 11/16	18 5/16	2074.9	465.2	E	659.30	20 7/16	4 9/16	519.1	116.4
G	49.00	74 7/8	16 13/16	1901.8	426.4	G	784.00	18 3/4	4 3/16	476.3	106.8
A [#] /B ^b	58.30	68 5/8	15 3/8	1743.1	390.8	A [#] /B ^b	932.30	17 3/16	3 7/8	436.6	97.9
D2	73.41	61 3/16	13 11/16	1554.2	348.4	D6	1,174.61	15 5/16	3 7/16	388.9	87.2
Total feet =		31.5	Total cm=	960.3		Total feet required		7.9	Total cm=	240.3	
C2	65.40	64 13/16	14 1/2	1646.2	369.1	C6	1,046.50	16 3/16	3 5/8	411.2	92.2
E	82.40	57 3/4	12 15/16	1466.9	328.9	E	1,318.50	14 7/16	3 1/4	366.7	82.2
G	98.01	52 15/16	11 7/8	1344.6	301.5	G	1,568.00	13 1/4	3	336.6	75.5
A [#] /B ^b	116.50	48 9/16	10 7/8	1233.5	276.5	A [#] /B ^b	1,864.60	12 1/8	2 11/16	308.0	69.0
D3	146.80	43 1/4	9 11/16	1098.6	246.3	D7	2,349.20	10 13/16	2 7/16	274.6	61.6
Total feet required		22.3	Total cm=	679.0		Total feet required		5.6	Total cm=	169.7	
C3	130.81	45 13/16	10 1/4	1163.6	260.9	C7	2,093.00	11 7/16	2 9/16	290.5	65.1
E	164.80	40 13/16	9 1/8	1036.6	232.4	E	2,637.00	10 3/16	2 5/16	258.8	58.0
G	196.00	37 7/16	8 3/8	950.9	213.2	G	3,136.00	9 3/8	2 1/8	238.1	53.4
A [#] /B ^b	233.10	34 5/16	7 11/16	871.5	195.4	A [#] /B ^b	3,729.20	8 9/16	1 15/16	217.5	48.8
D4	293.70	30 9/16	6 7/8	776.3	174.0	D8	4,698.40	7 5/8	1 11/16	193.7	43.4
Total feet required		15.7	Total cm=	479.9		Total feet required		3.9	Total cm=	119.9	
C4	261.60	32 7/16	7 1/4	823.9	184.7						
E	329.61	28 7/8	6 1/2	733.4	164.4						
G	392.00	26 1/2	5 15/16	673.1	150.9						
A [#] /B ^b	466.20	24 1/4	5 7/16	616.0	138.1						
D5	587.30	21 5/8	4 7/8	549.3	123.1						
Total feet required		11.1	Total cm=	339.6							
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	35 5/16	7 15/16	896.9	201.1	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	591.04	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					