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## Electric Guitar String Guide

*Updated September 2016*

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## Introduction

Whether you are a luthier, a repair tech, or someone looking to find your “ideal” set for your application, string tension will play a role. It is with this in mind that we at GHS have put together our Electric Guitar String Guide, as a way to help you find the information you are looking for to help you in whatever role you fall.

## How to Calculate Tension

String tension is the amount of force a string has when tuned to a specific pitch. To find out the tension of a particular string, you need three variables: the **Unit Weight**, the **Scale Length**, and the **Frequency or Pitch** of the string you will be using. We have taken the time to provide you with a comprehensive list of all of our current electric guitar strings, in single strings as well as in our pre-packaged sets. The formulas used to this end are the industry standard, and can be used to approximate other string tensions.

For those guitarists that prefer to use altered - or down - tunings, we present our tension guide in such a way as to help facilitate your endeavors, to make choosing the ideal set of strings for your application much easier.

- UW**     **UNIT WEIGHT:** The weight of the string, measured in pounds per linear inch (lb/in).
- L**        **SCALE LENGTH:** The vibrating length of a string. Measure the distance from the nut to the bridge of the instrument to find the scale length. **GHS has used the 25.5” scale length** (typical for Fender) in the enclosed guide. Your individual instrument may vary.
- F**        **FREQUENCY or PITCH:** The specific pitch at which each note is expressed, represented in cycles per second (Hertz).

To calculate the tension of a particular string in pounds, use the formula below, inserting the three needed variables.

$$T (\text{Tension}) = (UW \times (2 \times L \times F)^2) / 386.4$$

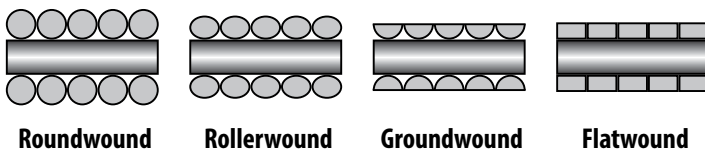
For those looking for a specific tension, you can use the formula below to get the unit weight for your particular needs. With that, compare the unit weight against the ones listed in the following pages to find the string gauge that meets your needs.

$$UW (\text{Unit Weight}) = (T \times 386.4) / (2 \times L \times F)^2$$

## Other Considerations

A common misconception is that the tension of a string is the same as the feel of the string under your fingers. And while string tension plays a part, there are a number of other processes that will also have an affect on the tone and playability of a string.

**Winding Techniques:** There are four types of winding techniques used for strings. The type providing the brightest tone (all else being equal) is the roundwound string. Next is the rollerwound, followed by the groundwound (also called a halfwound) and finally a flatwound.



**PLEASE NOTE:** We have provided this guide as a reference of the tension of our strings at various pitches. Please use caution when making sets that have extremely high tensions, as the set as a whole may put undue stress on the neck, as well as snap the core of the strings prematurely.

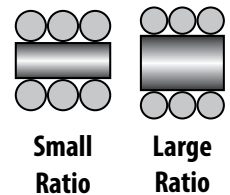
## Frequency Chart

The chart below represents the frequency or pitch of each note, as it relates to the guitar fretboard. Standard tunings are shown in bold type; use the additional frequencies to calculate tension for strings when using altered tunings.

<b>E2</b> 82.4 Hz	<b>A2</b> 110.0 Hz	<b>D3</b> 146.8 Hz	<b>G3</b> 196.0 Hz	<b>B3</b> 246.9 Hz	<b>E4</b> 329.6 Hz	Nut / Open
F2 87.3 Hz	A#2 116.5 Hz	D#3 155.6 Hz	G#3 207.7 Hz	C4 261.6 Hz	F4 349.2 Hz	First Fret
F#2 92.5 Hz	B2 123.5 Hz	E3 164.8 Hz	A3 220.0 Hz	C#4 277.2 Hz	F#4 369.9 Hz	Second Fret
G2 98.0 Hz	C3 130.8 Hz	F3 174.6 Hz	A#3 233.1 Hz	D4 293.7 Hz	G4 392.0 Hz	Third Fret
G#2 103.8 Hz	C#3 138.6 Hz	F#3 185.0 Hz	<b>B3</b> 246.9 Hz	D#4 311.1 Hz	G#4 415.3 Hz	Fourth Fret
<b>A2</b> 110.0 Hz	<b>D3</b> 146.8 Hz	<b>G3</b> 196.0 Hz	C4 261.6 Hz	<b>E4</b> 329.6 Hz	<b>A4</b> 440.0 Hz	Fifth Fret

**String Materials:** The hardness of common materials used in the cover wire of strings affects both the tone and “feel” of a string. Usually, with all else remaining constant, the harder the material the brighter the string. Common cover wire materials include (ranked by order of brightness) stainless steel, Alloy 52, nickel plated steel, pure nickel, and for acoustics, brass and bronze.

**String Geometry:** “String Geometry” generally refers to the ratio of the core wire diameter to the cover wire diameter. These two parameters are utilized to come up with the final string gauge. All else remaining constant, a small core-to-cover ratio generally results in a string with greater flexibility and brighter tone. A larger core-to-cover ratio generally results in a string with greater volume, sustain, tone life and durability.





# Boomers® - Tension (cont.)

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
<b>GBUL</b> Ultra Light	76.0	008 11.8	011 12.1	014 12.3	DY22 14.4	DY30 13.3	DY38 12.1
<b>GB8½</b> Ultra Light +	79.0	008 1/2 12.5	010 1/2 10.3	014 12.3	DY22 14.4	DY32 15.4	DY40 14.1
<b>GBXL</b> Extra Light	85.1	009 13.2	011 12.1	016 15.3	DY24 14.8	DY32 15.4	DY42 14.3
<b>GB9½</b> Extra Light +	92.2	009 1/2 15.8	011 1/2 12.6	016 15.3	DY24 14.8	DY34 19.1	DY44 14.7
<b>GBCL</b> Custom Light	95.3	009 13.2	011 12.1	016 15.3	DY26 18.0	DY36 19.3	DY46 17.4
<b>GBLXL</b> Light/Extra Light	91.7	010 16.6	013 15.8	015 13.7	DY26 18.0	DY32 15.4	DY38 12.1
<b>GBL</b> Light	104.7	010 16.6	013 15.8	017 17.6	DY26 18.0	DY36 19.3	DY46 17.4
<b>GB10½</b> Light +	109.9	010 1/2 18.3	013 1/2 16.4	017 17.6	DY26 18.0	DY38 21.6	DY48 18.5
<b>GBM</b> Medium	120.8	011 21.6	015 21.7	018 18.8	DY26 18.0	DY36 19.3	DY50 21.5
<b>GBTM</b> True Medium	123.8	011 21.6	015 21.7	018 18.8	DY28 18.6	DY38 21.6	DY50 21.5
<b>GBTNT</b> Thin-Thick	121.8	011 21.6	015 21.7	018 18.8	DY30 23.7	DY44 21.2	DY52 21.9
<b>GBH</b> Heavy	131.2	012 24.9	016 24.2	019 20.0	DY28 18.6	DY38 21.6	DY52 21.9
<b>GBZW</b> Heavyweight	163.6	010 16.6	013 15.8	017 17.6	DY36 34.3	DY52 39.0	DY60 40.2

### WOUND 3RD STRING SETS

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
<b>DYXL</b> Extra Light	107.3	010 16.6	013 15.8	DY18 20.2	DY26 18.0	DY36 19.3	DY46 17.4
<b>DYL</b> Light	147.3	012 24.9	015 21.7	DY24 26.3	DY32 27.5	DY40 25.1	DY52 21.9
<b>DYM</b> Medium	178.9	013 28.2	017 27.9	DY26 32.1	DY36 34.3	DY44 26.2	DY56 30.1

### DAVID GILMOUR SIGNATURE SETS

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
<b>GB-DGG</b> Signature Red	122.0	010 1/2 18.3	013 15.8	017 17.6	DY30 23.7	DY40 25.1	DY50 21.5
<b>GB-DGF</b> Signature Blue	104.6	010 16.6	012 14.0	016 15.3	DY28 18.6	DY38 21.6	DY48 18.5

### LOW TUNED SETS

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
<b>GB-LOW</b> Low Tune	145.8	011 21.6	015 21.7	019 20.0	DY33 33.9	DY43 26.2	DY53 22.5
<b>GBZWLO</b> Heavyweight Low	180.2	011 21.6	014 19.6	018 18.8	DY36 34.3	DY52 39.0	DY70 46.9

### 7 STRING SETS

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E	7-B	8-F#
<b>GB7L</b> Extra Light	102.4	009 13.2	011 12.1	016 15.3	DY24 14.8	DY32 15.4	DY42 14.3	DY58 17.3	
<b>GB7CL</b> Custom Light	112.0	009 13.2	011 12.1	016 15.3	DY26 18.0	DY32 15.4	DY44 14.7	DY62 23.3	
<b>GB7M</b> Medium	127.3	010 16.6	013 15.8	017 17.6	DY26 18.0	DY36 19.3	DY46 17.4	DY60 22.6	
<b>GB7MH</b> Medium Heavy	142.8	011 21.6	014 19.6	018 18.8	DY28 18.6	DY38 21.6	DY48 18.5	DY64 24.1	
<b>GB7H</b> Heavy	254.5	013 28.2	017 27.9	DY30 42.3	DY42 45.3	DY54 40.1	DY64 42.9	DY74 27.8	

### 8 STRING SETS

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E	7-B	8-F#
<b>GBXL-8</b> Extra Light	112.8	009 13.2	011 12.1	016 15.3	DY24 14.8	DY32 15.4	DY42 14.3	DY54 12.6	DY72 15.1
<b>GBCL-8</b> Custom Light	127.8	009 13.2	011 12.1	016 15.3	DY26 18.0	DY36 19.3	DY46 17.4	DY56 16.9	DY74 15.6
<b>GBL-8</b> Light	143.3	010 16.6	013 15.8	017 17.6	DY26 18.0	DY36 19.3	DY46 17.4	DY60 22.6	DY76 16.0
<b>GBTNT-8</b> Thin-Thick	163.3	010 16.6	013 15.8	017 17.6	DY30 23.7	DY44 26.9	DY52 21.9	DY62 23.4	DY80 17.4
<b>GBH-8</b> Heavy	163.3	011 21.6	015 21.7	018 18.8	DY28 18.6	DY38 21.6	DY48 18.5	DY64 24.1	DY85 18.4

### 12 STRING SETS

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
<b>GB-12XL</b> Extra Light	175.3	009 13.2	011 12.1	016 15.3	DY24 14.8	DY30 13.3	DY40 14.1
		009 13.2	011 12.1	008 16.6	010 13.2	016 19.2	DY22 18.1
<b>GB-12L</b> Light	217.9	010 16.6	013 15.8	017 17.6	DY26 18.0	DY36 19.3	DY46 17.4
		010 16.6	013 15.8	009 18.7	011 17.1	017 22.2	DY26 22.7

# Thin-Core Boomers® - Tension



- Nickel-Plated Steel Roundwound Strings
- Wound over a Round Core Wire
- Smaller Core Diameter for Increased Flexibility and Speed

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1	
009	.0001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																													
010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																											
011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																									
013	.00003860		35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																							
015	.00005280					34.4	30.7	27.3	24.3	21.7	19.3	17.2	15.3	13.7	12.2	10.8	9.6	8.6																				
016	.00005900						24.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																			
017	.00006810							35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																		
018	.00007270								37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.7	14.9	13.3	11.8	10.6	9.4	8.4																
LC24	.00011165									40.8	36.4	32.4	28.9	25.7	22.9	20.4	18.2	16.2	14.4	12.9	11.5	10.2																
LC26	.00013284										43.3	38.6	34.4	30.6	27.3	24.3	21.6	19.3	17.2	15.3	13.6	12.1	10.8															
LC30	.00015983											41.3	36.8	32.8	29.2	26.0	23.2	20.7	18.4	16.4	14.6	13.0	11.6	10.3														
LC32	.00018552												42.7	38.1	33.9	30.2	26.9	24.0	21.4	19.0	17.0	15.1	13.5	12.0	10.7													
LC36	.00023366													42.7	38.1	33.9	30.2	26.9	24.0	21.4	19.0	17.0	15.1	13.5	12.0	10.7												
LC42	.00032954														42.6	38.0	33.8	30.1	26.8	23.9	21.3	19.0	16.9	15.1	13.4	12.0	10.7											
LC44	.00034997															40.3	35.9	32.0	28.5	25.4	22.6	20.2	18.0	16.0	14.3	12.7	11.3	10.1										
LC46	.00038571															44.4	39.6	35.3	31.4	28.0	24.9	22.2	19.8	17.6	15.7	14.0	12.5	11.1										
LC50	.00044495																40.7	36.2	32.3	28.8	25.6	22.8	20.3	18.1	16.2	14.4	12.8	11.4	10.2									
LC52	.00048478																44.3	39.5	35.2	31.3	27.9	24.9	22.2	19.7	17.6	15.7	14.0	12.4	11.1									

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
TC-GBXL Extra Light	87.0	009 13.2	011 12.1	016 15.3	LC24 16.2	LC32 15.1	LC42 15.1
TC-GBL Light	106.0	010 16.6	013 15.8	017 17.6	LC26 19.3	LC36 19.0	LC46 17.6
TC-GBCL Custom Light	96.5	009 13.2	011 12.1	016 15.3	LC26 19.3	LC36 19.0	LC46 17.6

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
TC-GBM Medium	120.7	011 21.6	015 21.7	018 18.8	LC26 19.3	LC36 19.0	LC50 20.3
TC-GBTNT Thin-Thick	123.9	010 16.6	013 15.8	017 17.6	LC30 23.2	LC44 28.5	LC52 22.2

# Thick-Core Boomers® - Tension



- Nickel-Plated Steel Roundwound Strings
- Wound over a Round Core Wire
- Larger Core Diameter for Thicker Tone and A More Focused Low End

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1	
009	.0001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																													
010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																											
011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																									
013	.00003860		35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																							
015	.00005280					34.4	30.7	27.3	24.3	21.7	19.3	17.2	15.3	13.7	12.2	10.8	9.6	8.6																				
016	.00005900						24.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																			
018	.00007270							37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.7	14.9	13.3	11.8	10.6	9.4	8.4																	
019	.00007720								35.6	31.7	28.2	25.2	22.4	20.0	17.8	15.8	14.1	12.6	11.2	10.0	8.9																	
HC25	.00012976									42.3	37.7	33.6	29.9	26.6	23.7	21.1	18.8	16.8	15.0	13.3	11.9	10.6																
HC28	.00014533										42.2	37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.7	14.9	13.3	11.8	10.6															
HC33	.00020056											41.2	36.7	32.7	29.1	25.9	23.1	20.6	18.3	16.3	14.6	13.0	11.6	10.3														
HC38	.00028148												40.9	36.4	32.4	28.9	25.7	22.9	20.4	18.2	16.2	14.4	12.9	11.5	10.2													
HC43	.00035498													40.9	36.4	32.5	28.9	25.8	22.9	20.5	18.2	16.2	14.5	12.9	11.5	10.2												
HC48	.00042558														43.7	38.9	34.7	30.9	27.5	24.5	21.8	19.5	17.3	15.4	13.8	12.3	10.9											
HC56	.00055672															40.4	36.0	32.1	28.6	25.5	22.7	20.2	18.0	16.0	14.3	12.7	11.3	10.1										

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
HC-GBXL Extra Light	92.0	009 13.2	011 12.1	016 15.3	HC25 18.8	HC33 16.3	HC43 16.2
HC-GBL Light	114.7	010 16.6	013 15.8	018 18.8	HC28 21.1	HC38 22.9	HC48 19.5

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
HC-GBCL Custom Light	104.1	009 13.2	011 12.1	016 15.3	HC28 21.1	HC38 22.9	HC48 19.5
HC-GBM Medium	132.7	011 21.6	015 21.7	019 20.0	HC28 21.1	HC38 22.9	HC56 25.5

# Coated Guitar Boomers® - Tension



- Nickel-Plated Steel Roundwound Strings
- Wound on a Round Core Wire
- Outer Wire is Coated for Longevity while Retaining the Brightness of Uncoated Strings

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1	
CB-009	.00001849	19.1	17.0	15.2	13.5	12.0	10.7	9.5	8.5																													
CB-010	.00002315	24.0	21.3	19.0	16.9	15.1	13.4	12.0	10.7	9.5	8.5																											
CB-011	.00003009	31.1	27.7	24.7	22.0	19.6	17.5	15.6	13.9	12.4	11.0	9.8	8.7																									
CB-012	.00003468	35.9	31.9	28.5	25.4	22.6	20.1	17.9	16.0	14.2	12.7	11.3	10.1	9.0																								
CB-013	.00003937		36.3	32.3	28.8	25.7	22.9	20.4	18.1	16.2	14.4	12.8	11.4	10.2	9.1																							
CB-015	.00005386					35.1	31.3	27.9	24.8	22.1	19.7	17.6	15.6	13.9	12.4	11.1	9.8	8.8																				
CB-016	.00006018						34.9	31.1	27.7	24.7	22.0	19.6	17.5	15.6	13.9	12.4	11.0	9.8	8.7																			
CB-017	.00006946						35.9	32.0	28.5	25.4	22.6	20.2	18.0	16.0	14.3	12.7	11.3	10.1	9.0																			
CB-018	.00007415							34.2	30.4	27.1	24.2	21.5	19.2	17.1	15.2	13.6	12.1	10.8	9.6	8.5																		
CB-019	.00007874							36.3	32.3	28.8	25.7	22.9	20.4	18.1	16.2	14.4	12.8	11.4	10.2	9.1	8.1																	
CB-DY24	.00010485									43.0	38.3	34.2	30.4	27.1	24.2	21.5	19.2	17.1	15.2	13.6	12.1	10.8																
CB-DY26	.00012772										41.6	37.1	33.0	29.4	26.2	23.4	20.8	18.5	16.5	14.7	13.1	11.7	10.4															
CB-DY28	.00013215										43.1	38.4	34.2	30.4	27.1	24.2	21.5	19.2	17.1	15.2	13.6	12.1	10.8															
CB-DY30	.00016830											43.5	38.8	34.5	30.8	27.4	24.4	21.8	19.4	17.3	15.4	13.7	12.2	10.9														
CB-DY32	.00019529												45.0	40.1	35.7	31.8	28.3	25.3	22.5	20.0	17.9	15.9	14.2	12.6	11.3	10.0												
CB-DY36	.00024360													44.5	39.7	35.4	31.5	28.1	25.0	22.3	19.8	17.7	15.8	14.0	12.5	11.1												
CB-DY38	.00027346														44.5	39.7	35.4	31.5	28.1	25.0	22.3	19.8	17.7	15.8	14.0	12.5	11.1											
CB-DY42	.00032157															41.6	37.0	33.0	29.4	26.2	23.3	20.8	18.5	16.5	14.7	13.1	11.7	10.4										
CB-DY44	.00033114															42.8	38.1	34.0	30.3	27.0	24.0	21.4	19.1	17.0	15.1	13.5	12.0	10.7										
CB-DY46	.00039202																45.2	40.2	35.8	31.9	28.5	25.3	22.6	20.1	17.9	16.0	14.2	12.7	11.3	10.1								
CB-DY50	.00048503																	44.3	39.5	35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	14.0	12.5	11.1								
CB-DY52	.00049316																		40.2	35.8	31.9	28.4	24.3	22.6	20.1	17.9	15.9	14.2	12.7	11.3	10.0							

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E	Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
CB-GBXL Extra Light	87.2	CB-009 13.5	CB-011 12.4	CB-016 15.6	CB-DY24 15.2	CB-DY32 15.9	CB-DY42 14.7	CB-GBM Medium	123.8	CB-011 22.0	CB-015 22.1	CB-018 19.2	CB-DY26 18.5	CB-DY36 19.8	CB-DY50 22.2
CB-GBCL Custom Light	107.5	CB-009 13.5	CB-011 12.4	CB-016 15.6	CB-DY26 18.5	CB-DY36 19.8	CB-DY46 17.9	CB-GBTNT Thin-Thick	125.0	CB-010 16.9	CB-013 16.2	CB-017 18.0	CB-DY30 24.4	CB-DY44 27.0	CB-DY52 22.6
CB-GBL Light	107.3	CB-010 16.9	CB-013 16.2	CB-017 18.0	CB-DY26 18.5	CB-DY36 19.8	CB-DY46 17.9	CB-GBH Heavy	134.4	CB-012 25.4	CB-016 24.7	CB-019 20.4	CB-DY28 19.2	CB-DY38 22.3	CB-DY52 22.6

# Reinforced Boomers® - Tension



- High-Grade Carbon Steel Wire
- Reinforced Ends to help Reduce Stress by Certain Types of Playing Styles and Tremolo Systems

## By Individual String

### 42" Overall Length Plain Steel

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1
T-009	.00001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																												
T-010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																										
T-011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																								
T-012	.00003400	35.2	31.3	27.9	24.9	22.2	19.7	17.6	15.7	14.0	12.4	11.1	9.9	8.9																							
T-013	.00003860		35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																						
T-016	.00005900					24.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																			
T-017	.00006810						35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																		

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
T-GBUL Ultra Light	76.0	T-008 11.8	T-011 12.1	T-014 12.3	DY22 14.4	DY30 13.3	DY38 12.1
T-GBXL Extra Light	85.1	T-009 13.2	T-011 12.1	T-016 15.3	DY24 14.8	DY32 15.4	DY42 14.3
T-GBL Light	104.7	T-010 16.6	T-013 15.8	T-017 17.6	DY26 18.0	DY36 19.3	DY46 17.4

# Sub-Zero™ Boomers® - Tension



- Nickel-Plated Steel Roundwound Strings
- Wound over a Round Core Wire
- Cryogenically Treated for Durability
- Brighter tone than regular Boomers®

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1
CR-008	.00001609	16.6	14.8	13.2	11.8	10.5	9.3	8.3																													
CR-009	.00001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																												
CR-010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																										
CR-011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																								
CR-013	.00003860		35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																						
CR-014	.00004770				34.9	31.1	27.7	24.7	21.9	19.6	17.4	15.5	13.8	12.3	11.0	9.8	8.7																				
CR-015	.00005280					34.4	30.7	27.3	24.3	21.7	19.3	17.2	15.3	13.7	12.2	10.8	9.6	8.6																			
CR-016	.00005900						24.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																		
CR-017	.00006810							35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																	
CR-018	.00007270								37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.7	14.9	13.3	11.8	10.6	9.4	8.4															
CR-DY22	.00009910									40.7	36.2	32.3	28.8	25.6	22.8	20.3	18.1	16.1	14.4	12.8	11.4	10.2															
CR-DY24	.00010180									41.8	37.2	33.2	29.6	26.3	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.4															
CR-DY26	.00012400									40.4	36.0	32.1	28.6	25.5	22.7	20.2	18.0	16.0	14.3	12.7	11.3	10.1															
CR-DY30	.00016340												42.3	37.6	33.5	29.9	26.6	23.7	21.1	18.8	16.8	14.9	13.3	11.9	10.6												
CR-DY32	.00018960													43.7	38.9	34.7	30.9	27.5	24.5	21.8	19.5	17.3	15.4	13.8	12.3	10.9											
CR-DY36	.00023650														43.2	38.5	34.3	30.6	27.2	24.3	21.6	19.3	17.2	15.3	13.6	12.1	10.8										
CR-DY38	.00026550															43.3	38.5	34.3	30.6	27.3	24.3	21.6	19.3	17.2	15.3	13.6	12.1	10.8									
CR-DY42	.00031220																40.4	36.0	32.0	28.5	25.4	22.7	20.2	18.0	16.0	14.3	12.7	11.3	10.1								
CR-DY46	.00038060																	43.9	39.1	34.8	31.0	27.6	24.6	21.9	19.5	17.4	15.5	13.8	12.3	11.0							
CR-DY50	.00047090																		43.1	38.4	34.2	30.4	27.1	24.2	21.5	19.2	17.1	15.2	13.6	12.1	10.8						

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E	Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
CR-GBUL Ultra Light	76.0	CR-008 11.8	CR-011 12.1	CR-014 12.3	CR-DY22 14.4	CR-DY30 13.3	CR-DY38 12.1	CR-GBL Light	104.7	CR-010 16.6	CR-013 15.8	CR-017 17.6	CR-DY26 18.0	CR-DY36 19.3	CR-DY46 17.4
CR-GBXL Extra Light	85.1	CR-009 13.2	CR-011 12.1	CR-016 15.3	CR-DY24 14.8	CR-DY32 15.4	CR-DY42 14.3	CR-GBM Medium	120.8	CR-011 21.6	CR-015 21.7	CR-018 18.8	CR-DY26 18.0	CR-DY36 19.3	CR-DY50 21.5
CR-GBCL Custom Light	95.3	CR-009 13.2	CR-011 12.1	CR-016 15.3	CR-DY26 18.0	CR-DY36 19.3	CR-DY46 17.4								

# Double Ball Boomers® - Tension



- Nickel-Plated Steel Roundwound Strings
- Wound over a Round Core Wire
- Designed to work with Standard Steinberger System Guitars

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1
DB-009	.00001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																												
DB-010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																										
DB-011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																								
DB-013	.00003860		35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																						
DB-016	.00005900					34.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																			
DB-017	.00006810						35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																		
DB-DY24	.00010180							41.8	37.2	33.2	29.6	26.3	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.4																	
DB-DY26	.00012400								40.4	36.0	32.1	28.6	25.5	22.7	20.2	18.0	16.0	14.3	12.7	11.3	10.1																
DB-DY32	.00018960									43.7	38.9	34.7	30.9	27.5	24.5	21.8	19.5	17.3	15.4	13.8	12.2	10.9															
DB-DY36	.00023650										43.2	38.5	34.3	30.6	27.2	24.3	21.6	19.3	17.2	15.3	13.7	12.1	10.8														
DB-DY42	.00031220																40.4	36.0	32.0	28.5	25.4	22.7	20.2	18.0	16.0	14.3	12.7	11.3	10.1								
DB-DY46	.00038060																		43.8	39.1	34.8	31.0	27.6	24.6	21.9	19.5	17.4	15.5	13.8	12.3	11.0						

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
DB-GBXL Extra Light	85.1	DB-009 13.2	DB-011 12.1	DB-016 15.3	DB-DY24 14.8	DB-DY32 15.4	DB-DY42 14.3
DB-GBL Light	104.7	DB-010 16.6	DB-013 15.8	DB-017 17.6	DB-DY26 18.0	DB-DY36 19.3	DB-DY46 17.4



# Nickel Rockers™ - Tension



- Pure Nickel Rollerwound Strings
- Wound on a Round Core Wire
- Warm but Articulate Tone

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1	
009	.00001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																													
010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																											
011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																									
012	.00003400	35.2	31.3	27.9	24.9	22.1	19.7	17.6	15.7	13.9	12.4	11.1	9.9	8.8																								
013	.00003860	35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																								
014	.00004770	34.9	31.1	27.7	24.7	21.9	19.6	17.4	15.5	13.8	12.3	11.0	9.8	8.7																								
015	.00005280	34.4	30.7	27.3	24.3	21.7	19.3	17.2	15.3	13.7	12.2	10.8	9.6	8.6																								
016	.00005900	24.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																								
017	.00006810	35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																								
018	.00007270	37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.7	14.9	13.3	11.8	10.6	9.4	8.4																							
019	.00007720	35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	10.0	8.9																								
N18	.00007424	43.1	38.4	34.2	30.5	27.2	24.2	21.5	19.2	17.1	15.2	13.6	12.1	10.8																								
N22	.00010240	42.0	37.5	33.4	29.7	26.5	23.6	21.0	18.7	16.7	14.9	13.2	11.8	10.5																								
N24	.00012020	44.0	39.2	34.9	31.1	27.7	24.7	22.0	19.6	17.4	15.5	13.8	12.3	11.0																								
N26	.00015280	44.4	39.5	35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	14.0	12.5	11.1																								
N28	.00016950	43.8	39.1	34.8	31.0	27.6	24.6	21.9	19.5	17.4	15.5	13.8	12.3	11.0																								
N30	.00018290	42.1	37.5	33.4	29.8	26.5	23.7	21.1	18.8	16.7	14.9	13.3	11.8	10.5																								
N32	.00021860	44.9	40.0	35.6	31.7	28.3	25.2	22.4	20.0	17.8	15.9	14.1	12.6	11.2																								
N34	.00024850	45.4	40.5	36.1	32.1	28.6	25.5	22.7	20.2	18.0	16.1	14.3	12.8	11.4	10.1																							
N36	.00027860	45.4	40.4	36.0	32.1	28.6	25.5	22.7	20.2	18.0	16.1	14.3	12.7	11.4	10.1																							
N38	.00031280	40.4	36.0	32.1	28.6	25.5	22.7	20.2	18.0	16.1	14.3	12.7	11.4	10.1																								
N40	.00032340	41.8	37.3	33.2	29.6	26.3	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5																								
N42	.00037010	42.6	38.0	33.8	30.1	26.9	23.9	21.3	19.0	16.9	15.1	13.4	12.0	10.7																								
N44	.00041740	42.8	38.2	34.0	30.3	27.0	24.0	21.4	19.1	17.0	15.2	13.5	12.0	10.1																								
N46	.00044040	40.3	35.9	32.0	28.5	25.4	22.6	20.1	17.9	16.0	14.2	12.7	11.4	10.1																								
N48	.00049990	40.7	36.3	32.3	28.8	25.7	22.9	20.4	18.1	16.2	14.4	12.9	11.4	10.2																								
N50	.00053320	43.4	38.7	34.5	30.7	27.4	24.4	21.7	19.4	17.2	15.4	13.7	12.2	10.9																								
N52	.00056400	40.9	36.5	32.5	28.9	25.8	23.0	20.5	18.2	16.2	14.5	12.9	11.5	10.2																								
N54	.00060250	43.7	38.9	34.7	30.9	27.5	24.5	21.9	19.5	17.4	15.5	13.8	12.3	10.9																								
N56	.00067620	43.7	39.0	34.7	30.9	27.5	24.5	21.9	19.5	17.4	15.5	13.8	12.3																									
N58	.00075900	43.7	39.0	34.7	30.9	27.5	24.5	21.9	19.5	17.4	15.5	13.8																										

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
R+RXL Extra Light	92.8	009 13.2	011 12.1	016 15.3	N24 17.4	N32 17.8	N42 16.9
R+RXL/L Extra Light/Light	105.6	009 13.2	011 12.1	016 15.3	N26 22.2	N36 22.7	N46 20.1
R+RL Light	137.7	010 16.6	013 15.8	017 17.6	N26 22.2	N36 22.7	N46 20.1
R+RM Medium	131.3	011 21.6	015 21.7	018 18.8	N26 22.2	N36 22.7	N50 24.4
R+EJL Custom Light	123.3	010 16.6	013 15.8	018 18.8	N26 22.2	N38 25.5	N50 24.4
R+EJM Custom Medium	137.8	011 21.6	014 19.6	019 20.0	N28 24.6	N40 26.3	N52 25.8

### WOUND 3RD STRING SETS

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
1315 Light	128.6	011 21.6	013 15.8	N18 19.2	N26 22.2	N38 25.5	N50 24.4
1400 Medium Light	155.3	011 21.6	015 21.7	N22 26.5	N28 24.6	N42 30.1	N54 27.5
TM1500 True Medium	180.0	013 28.2	017 27.9	N24 31.1	N32 31.7	N42 30.1	N56 30.9

### LOW TUNED SETS

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
1300 Low Tune	148.0	011 21.6	015 21.7	019 20.0	N28 24.6	N38 25.5	N58 34.7

# Compound Nickel Rockers - Tension



- Pure Nickel Rollerwound Strings
- Wound over a Hex Core Wire
- Double Wrap for a Smoother Feel
- Excellent for Jazz

## By Individual String

### 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1		
C30	.00020290														41.6	37.1		33.1	<b>29.5</b>	26.2	23.4		20.8	18.6	16.5	14.7	13.1	11.7	10.4										
C42	.00038130																				44.9	39.1	34.9	<b>31.1</b>	27.7	24.7	22.0	19.6	17.4	15.5	13.8	12.3	11.0						
C44	.00040760																					41.8	37.3	<b>33.2</b>	29.6	26.4	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5					
C46	.00044180																						40.4	<b>36.0</b>	32.1	28.6	25.5	22.7	20.2	18.0	16.0	14.3	12.7	11.3	10.1				
C48	.00049200																						45.0	40.1	35.7	31.8	28.3	25.3	22.5	20.0	17.8	15.9	14.2	12.6	11.2	10.0			
C50	.00052880																							43.1	38.4	34.2	30.5	27.1	<b>24.2</b>	21.5	19.2	17.1	15.2	13.6	12.1	10.8			
C52	.00057620																							41.8	37.3	33.2	29.6	<b>26.3</b>	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5			
C54	.00060520																								43.9	39.1	34.9	31.1	<b>27.7</b>	24.7	22.0	19.6	17.4	15.5	13.8	12.3	11.0		
C58	.00061830																								44.9	40.0	35.6	31.7	<b>28.3</b>	25.2	22.4	20.0	17.8	<b>15.9</b>	14.1	12.6	11.2		
C60	.00074580																									43.0	38.3	34.1	30.4	27.1	24.1	21.5	<b>19.1</b>	17.1	15.2	13.5			
C62	.00078790																										40.4	36.0	32.1	28.6	25.5	22.7	<b>20.2</b>	18.0	16.0	14.3			
C70	.00103000																											42.0	37.4	33.3	29.7	<b>26.4</b>	23.5	21.0	18.7				

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
<b>1800</b>		011	014	N22	N30	C42	C52
Light	151.6	21.6	19.6	26.5	26.5	31.1	26.3
<b>1810</b>		012	016	N24	C30	C44	C54
Medium	170.5	24.9	24.2	31.1	29.5	33.2	27.7

# Burnished Nickel Rockers - Tension



- Pure Nickel Rollerwound Strings
- Wound over a Hex Core Wire
- Slightly Polished for a Smooth Feel
- Warm, Vintage Tone

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1	
009	.00001810	18.7	16.7	14.9	<b>13.2</b>	11.8	10.5	9.4	8.3																													
010	.00002270	23.5	20.9	18.6	<b>16.6</b>	14.8	13.2	11.7	10.5	9.3	8.3																											
011	.00002950	30.5	27.2	24.2	<b>21.6</b>	19.2	17.1	15.3	13.6	<b>12.1</b>	10.8	9.6	8.6																									
013	.00003860		35.6	31.7	<b>28.2</b>	25.2	22.4	19.9	17.8	<b>15.8</b>	14.1	12.6	11.2	9.9	8.9																							
014	.00004770			34.9	31.1	27.7	24.7	21.9	<b>19.6</b>	17.4	15.5	13.8	<b>12.3</b>	11.0	9.8	8.7																						
016	.00005900					24.3	30.5	27.2	<b>24.2</b>	21.6	19.2	17.1	<b>15.3</b>	13.6	12.1	10.8	9.6	8.6																				
017	.00006810							35.2	31.4	<b>27.9</b>	24.9	22.2	19.8	<b>17.6</b>	15.7	13.9	12.4	11.1	9.9	8.8																		
018	.00007270							37.6	33.5	29.8	26.6	23.7	21.1	<b>18.8</b>	16.7	14.9	13.3	11.8	10.6	9.4	8.4																	
BNR24	.00012540										40.9	36.4	32.4	28.9	25.7	22.9	20.4	<b>18.2</b>	16.2	14.4	12.9	11.5	10.2															
BNR26	.00016610													42.9	38.3	34.1	30.4	27.1	<b>24.1</b>	21.5	19.1	17.0	15.2	13.5	12.1	10.7												
BNR28	.00017930														41.3	36.8	32.8	29.2	<b>26.0</b>	23.2	20.6	18.4	16.4	14.6	13.0	11.6	10.3											
BNR32	.00020540														42.2	37.6	33.5	29.8	26.6	23.7	21.1	18.8	<b>16.7</b>	14.9	13.3	11.8	10.5											
BNR36	.00028170																				40.9	36.4	32.4	28.9	25.7	<b>22.9</b>	20.4	18.2	16.2	14.4	12.9	11.5	10.2					
BNR38	.00030020																				43.6	38.8	34.6	30.8	27.4	<b>24.5</b>	21.8	19.4	17.3	15.4	13.7	12.2	10.9					
BNR42	.00032650																				42.2	37.6	33.5	29.9	26.6	23.7	21.1	18.8	16.7	<b>14.9</b>	13.3	11.9	10.6					
BNR46	.00042340																					43.5	38.7	34.5	30.7	27.4	24.4	21.7	<b>19.4</b>	17.2	15.4	13.7	12.2	10.9				
BNR50	.00048770																					44.6	39.7	35.4	31.5	28.1	25.0	<b>22.3</b>	19.9	17.7	15.8	14.1	12.5	11.2				

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
<b>BNR-XL</b>		009	011	016	BNR24	BNR32	BNR42
Extra Light	90.5	13.2	12.1	15.3	18.2	16.7	14.9
<b>BNR-L</b>		010	013	017	BNR26	BNR36	BNR46
Light	116.5	16.6	15.8	17.6	24.1	22.9	19.4
<b>BNR-M</b>		011	014	018	BNR28	BNR38	BNR50
Medium	132.7	21.6	19.6	18.8	26.0	24.5	22.3

# Big Core Nickel Rockers™ - Tension



- Pure Nickel Roundwound Strings
- Wound over a Hex Core Wire
- Larger Core Diameter for Improved Tone and Increased Sustain
- Half size Plain Steel Strings for Balance

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1
009½	.00002159	22.3	19.9	17.7	15.8	12.5	11.2	9.9	8.3																												
010½	.00002500	25.9	23.0	20.5	18.3	16.3	14.5	12.9	11.5	10.3	9.1	8.1																									
011½	.00003080	31.9	28.4	25.3	22.5	20.1	17.9	15.9	14.2	12.6	11.3	10.0	8.9																								
013½	.00004008	36.9	32.9	29.3	26.1	23.3	20.7	18.5	16.5	14.7	13.1	11.6	10.4	9.2	8.2																						
015	.00005280	34.4	30.7	27.3	24.3	21.7	19.3	17.2	15.3	13.7	12.2	10.8	9.7	8.6																							
016	.00005900	34.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.7	8.6																							
018	.00007270	37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.8	14.9	13.3	11.8	10.6	9.4	8.4																						
019	.00007720	35.6	31.7	28.2	25.2	22.4	20.0	17.8	15.8	14.1	12.6	11.2	10.0	8.9																							
RM24	.00013528	44.1	39.3	35.0	31.2	27.8	24.7	22.0	19.6	17.5	15.6	13.9	12.4	11.0																							
RM28	.00017126	44.3	39.5	35.2	31.3	27.9	24.9	22.1	19.7	17.6	15.7	14.0	12.4	11.1																							
RM32	.00021058	43.2	38.5	34.3	30.6	27.2	24.3	21.6	19.3	17.2	15.3	13.6	12.1	10.8																							
RM38	.00029587	42.9	38.3	34.1	30.4	27.1	24.1	21.5	19.1	17.0	15.2	13.5	12.1	10.7																							
RM42	.00037012	42.6	38.0	33.8	30.2	26.9	24.0	21.3	19.0	16.9	15.1	13.4	12.0	10.7																							
RM48	.00047516	43.4	38.7	34.5	30.7	27.4	24.4	21.7	19.4	17.2	15.4	13.7	12.2	10.9																							
RM56	.00062494	40.4	36.0	32.1	28.6	25.5	22.7	20.2	18.0	16.0	14.3	12.7	11.3																								

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E	Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
BXXL Extra Light	97.4	009½ 15.8	011½ 12.6	016 15.3	RM24 19.6	RM32 17.2	RM42 16.9	BCCL Custom Light	114.4	009½ 15.8	011½ 12.6	016 15.3	RM28 24.9	RM38 24.1	RM48 21.7
BCL Light	123.0	010½ 18.3	013½ 16.5	017 17.6	RM28 24.9	RM38 24.1	RM48 21.7	BCM Medium	141.7	011 22.5	015 21.7	019 20.0	RM28 24.9	RM38 24.1	RM56 28.6

# Brite Flats - Tension



- Nickel-Iron Groundwound Strings
- Wound over a Hex Core Wire
- Mellow Sound, with Definition and Sustain

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1
009	.00001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																												
010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																										
011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																								
012	.00003400	35.2	31.1	29.7	24.9	22.2	19.7	17.6	15.7	14.0	12.4	11.8	9.9	8.8																							
013	.00003860	35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																							
014	.00004770	34.9	31.1	27.7	24.7	22.0	19.6	17.4	15.5	13.8	12.3	11.0	9.8	8.7																							
015	.00005280	34.4	30.7	27.3	24.3	21.7	19.3	17.2	15.3	13.7	12.2	10.8	9.6	8.6																							
016	.00005900	34.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																							
017	.00006810	35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																							
BR22	.00009330	43.0	38.3	34.1	30.4	27.1	24.1	21.5	19.2	17.1	15.2	13.5	12.1	10.7																							
BR24	.00011430	41.8	37.2	33.2	29.6	26.3	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.4																							
BR26	.00015110	43.9	39.1	34.8	31.0	27.6	24.6	22.0	19.5	17.4	15.5	13.8	12.3	11.0																							
BR28	.00021000	43.1	38.4	34.2	30.5	27.2	24.2	21.6	19.2	17.1	15.2	13.6	12.1	10.8																							
BR32	.00024030	44.0	39.1	34.9	31.1	27.7	24.7	22.0	19.6	17.4	15.2	13.8	12.3	11.0																							
BR36	.00026670	43.4	38.7	34.5	30.7	27.4	24.4	21.7	19.4	17.2	15.4	13.7	12.2	10.9																							
BR38	.00032720	42.3	37.7	33.6	29.9	26.7	23.7	21.2	18.8	16.8	15.0	13.3	11.9	10.6																							
BR42	.00034750	44.9	40.0	35.7	31.8	28.3	25.2	22.5	20.0	17.8	15.9	14.2	12.6	11.0																							
BR46	.00044460	40.7	36.2	32.3	28.7	25.6	22.8	20.3	18.1	16.1	14.4	12.8	11.4	10.2																							
BR50	.00051250	41.7	37.2	33.1	29.5	26.3	23.4	20.9	18.6	16.6	14.8	13.2	11.7	10.4																							
BR54	.00055350	40.2	35.8	31.9	28.4	25.3	22.5	20.1	17.9	15.9	14.2	12.7	11.3	10.0																							

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E	Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
700 Extra Light	89.8	009 13.2	012 14.0	015 13.7	BR22 13.5	BR32 19.6	BR42 15.9	720 Medium	145.8	011 21.6	014 19.6	BR22 24.1	BR28 30.5	BR38 26.7	BR50 23.4
710 Light	114.0	010 16.6	013 15.8	017 17.6	BR26 21.9	BR36 21.7	BR46 20.3	730 Regular	167.1	012 24.9	016 24.2	BR24 29.6	BR32 34.9	BR42 28.3	BR54 25.3

# Super Steels™ - Tension



- Stainless Steel Roundwound Strings
- Wound over a Hex Core Wire
- Incredibly Bright Tone
- Long Sustain at Higher Volumes

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1	
008	.00001609	16.6	14.8	13.2	11.8	10.5	9.3	8.3																														
009	.00001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																													
010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																											
011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																									
013	.00003860		35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																							
014	.00004770				34.9	31.1	27.7	24.7	21.9	19.6	17.4	15.5	13.8	12.3	11.0	9.8	8.7																					
016	.00005900						24.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																			
017	.00006810							35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																		
ST18	.00010180									41.8	37.2	33.2	29.6	26.3	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5																
ST20	.00010280									42.2	37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.8	14.9	13.3	11.8	10.6																
ST22	.00010810									44.4	39.5	35.2	31.4	28.0	24.9	22.2	19.8	17.6	15.7	14.0	12.5	11.1																
ST24	.00011490									42.0	37.4	33.4	29.7	26.5	23.6	21.0	18.7	16.7	14.9	13.2	11.8	10.5																
ST26	.00013960										40.5	36.1	32.2	28.7	25.5	22.7	20.3	18.1	16.1	14.3	12.8	11.4	10.1															
ST28	.00014230										41.3	36.8	32.8	29.2	26.0	23.2	20.7	18.4	16.4	14.6	13.0	11.6	10.3															
ST30	.00019230												44.3	39.5	35.2	31.3	27.9	24.9	22.2	19.7	17.6	15.7	14.0	12.4	11.1													
ST32	.00020810													42.7	38.1	33.9	30.2	26.9	24.0	21.4	19.0	17.0	15.1	13.4	12.0	10.7												
ST34	.00022390													40.9	36.5	32.5	29.0	25.8	23.0	20.5	18.2	16.3	14.5	12.9	11.5	10.2												
ST36	.00025230														41.1	36.6	32.6	29.1	26.9	23.1	20.6	18.3	16.3	14.5	13.0	11.5	10.3											
ST38	.00029970															43.5	38.8	34.5	30.8	27.4	24.4	21.8	19.4	17.3	15.4	13.7	12.2	10.9										
ST40	.00032860																42.5	37.9	33.7	30.0	26.8	23.9	21.2	19.0	16.9	15.0	13.4	11.9	10.6									
ST42	.00037010																	42.6	38.0	33.8	30.1	26.9	24.0	21.3	19.0	16.9	15.1	13.4	12.0	10.7								
ST44	.00038510																		44.4	39.5	35.2	31.4	28.0	24.9	22.2	19.8	17.6	15.7	14.0	12.5	11.1							
ST46	.00038850																			44.8	39.9	35.5	31.6	28.2	25.1	22.4	20.0	17.8	15.8	14.1	12.7	11.2						
ST48	.00043410																			44.6	39.7	35.4	31.5	28.1	25.0	22.3	20.0	17.7	15.8	14.0	12.5	11.1						
ST50	.00047620																				43.5	38.8	34.6	30.8	27.4	24.4	21.8	19.4	17.3	15.4	13.7	12.2	10.9					
ST52	.00050520																					41.2	36.7	32.7	29.1	25.9	23.1	20.6	18.3	16.3	14.6	13.0	11.6	10.3				
ST54	.00053150																					43.3	38.6	34.4	30.6	27.3	24.3	21.6	19.3	17.2	15.3	13.6	12.2	10.8				
ST56	.00065540																						42.4	37.8	33.6	30.0	26.7	23.8	21.2	18.9	16.8	15.0	13.4	11.9				
ST58	.00068000																						44.0	39.2	34.9	31.1	27.7	24.7	22.0	19.6	17.5	15.5	13.9	12.3				
ST70	.00099200																							40.4	36.0	32.1	28.6	25.5	22.7	20.2	18.0							

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
ST-UL Ultra Light	81.3	008 11.8	011 12.1	014 12.3	ST22 15.7	ST30 15.7	ST38 13.7
ST-XL Extra Light	91.2	009 13.2	011 12.1	016 15.3	ST24 16.7	ST32 17.0	ST42 17.0
ST-L Light	108.6	010 16.6	013 15.8	017 17.6	ST26 20.3	ST36 20.6	ST46 17.8

# Progressives - Tension



- Nickel-Iron Roundwound Strings
- Wound over a Hex Core Wire
- Highly Magnetic for a Punchy, Bright Tone

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1
009	.00001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																												
010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																										
011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																								
013	.00003860		35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																						
015	.00005280					34.4	30.7	27.3	24.3	21.7	19.3	17.2	15.3	13.7	12.2	10.8	9.6	8.6																			
016	.00005900						34.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																		
017	.00006810							35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																	
018	.00007270								37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.7	14.9	13.3	11.8	10.6	9.4	8.4															
PR22	.00010180									41.8	37.2	33.2	29.6	26.3	23.4	20.9	18.6	16.6	14.8	13.2	11.7	10.5															
PR24	.00011490										42.0	37.4	33.3	29.7	26.5	23.6	21.0	18.7	16.7	14.9	13.2	11.8	10.5														
PR26	.00015020											43.6	38.8	34.6	30.8	27.5	24.5	21.8	19.4	17.3	15.4	13.7	12.2	10.9													
PR28	.00016610												43.0	38.3	34.1	30.4	27.1	24.1	21.5	19.1	17.0	15.2	13.5	12.0	10.7												
PR30	.00018960													43.7	38.9	34.7	30.9	27.5	24.5	21.8	19.5	17.3	15.4	13.8	12.3	10.9											
PR32	.00020800														42.7	38.0	33.9	30.2	26.9	24.0	21.3	19.0	16.9	15.1	13.4	12.0	10.7										
PR36	.00025280																	41.2	36.7	32.7	29.1	25.9	23.1	20.6	18.3	16.3	14.6	13.0	11.6	10.3							
PR38	.00029700																		43.1	38.4	34.2	30.5	27.2	24.2	21.6	19.2	17.1	15.2	13.6	12.1	10.8						
PR42	.00033960																			43.9	39.1	34.8	31.0	27.7	24.6	22.0	19.6	17.4	15.5	13.8	12.3	11.0					
PR44	.00038010																				43.8	39.0	34.7	31.0	27.6	24.6	21.9	19.5	17.4	15.5	13.8	12.3	10.9				
PR46	.00041160																					42.2	37.6	33.5	29.9	26.6	23.7	21.1	18.8	16.8	14.9	13.3	11.8	10.6			
PR52	.00054200																						44.1	39.3	35.0	31.2	27.8	24.8	22.1	19.7	17.5	15.6	13.9	12.4	11.0		
PR54	.00057980																							42.1	37.5	33.4	29.8	26.5	23.6	21.0	18.7	16.7	14.9	13.2	11.8	10.5	

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E	Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
PRXL Extra Light	89.7	009 13.2	011 12.1	016 15.3	PR24 16.7	PR32 16.9	PR42 15.5	PRDM Thin-Thick	133.3	010 16.6	013 15.8	017 17.6	PR30 27.5	PR44 31.0	PR52 24.8
PRCL Custom Light	101.8	009 13.2	011 12.1	016 15.3	PR26 21.8	PR36 20.6	PR46 18.8	PRM Medium	127.0	011 21.6	015 21.7	018 18.8	PR26 21.8	PR36 20.6	PR50 22.6
PRL Light	111.3	010 16.6	013 15.8	017 17.6	PR26 21.8	PR36 20.6	PR46 18.8								

# Precision Flats™ - Tension



- Stainless Steel Flatwound Strings
- Wound over a Hex Core Wire
- Polished to a Velvety Finish
- Warm, Vintage Tone

## By Individual String

### 42" Overall Length Plain Steel, 38" Winding/40" Overall Length Wound Strings

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1		
009	.00001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																														
011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																										
012	.00003400	35.2	31.3	27.9	24.9	22.2	19.7	17.6	15.7	14.0	12.4	11.1	9.9	8.8																									
013	.00003860		35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																								
014	.00004770				34.9	31.1	27.7	24.7	21.9	19.6	17.4	15.5	13.8	12.3	11.0	9.8	8.7																						
016	.00005900					24.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																					
017	.00006810						35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																				
F22	.00009440							43.5	38.8	34.5	30.8	27.4	24.4	21.8	19.4	17.3	15.4	13.7	12.2	10.9																			
F24	.00011680								42.7	38.1	33.9	30.2	26.9	24.0	21.4	19.0	17.0	15.1	13.5	12.0	10.7																		
F26	.00013170									42.9	38.2	34.1	30.3	27.0	24.1	21.5	19.1	17.0	15.2	13.5	12.0	10.7																	
F28	.00014840										43.1	38.4	34.2	30.5	27.1	24.2	21.5	19.2	17.1	15.2	13.6	12.1	10.8																
F30	.00019750											40.5	36.1	32.2	28.7	25.5	22.8	20.3	18.1	16.1	14.3	12.8	11.4	10.1															
F32	.00021560												44.3	39.4	35.1	31.3	27.9	24.8	22.1	19.7	17.6	15.7	13.9	12.4	11.1														
F34	.00024150													44.2	39.3	35.1	31.2	27.8	24.8	22.1	19.7	17.5	15.6	13.9	12.4	11.0													
F36	.00027690														45.1	40.2	35.8	31.9	28.4	25.3	22.6	20.1	17.9	15.9	14.2	12.7	11.3	10.0											
F40	.00031890															41.2	36.7	32.7	29.2	26.0	23.1	20.6	18.4	16.4	14.6	13.0	11.6	10.3											
F42	.00034070																44.1	39.2	35.0	31.2	27.8	24.7	22.0	19.6	17.5	15.6	13.9	12.4	11.0										
F44	.00035900																	41.4	36.8	32.8	29.2	26.1	23.2	20.7	18.4	16.4	14.6	13.0	11.6	10.3									
F46	.00041270																		42.4	37.7	33.6	30.0	26.7	23.8	21.2	18.9	16.8	15.0	13.3	11.9	10.6								
F48	.00044370																			42.6	38.0	33.8	30.1	26.8	23.9	21.3	19.0	16.9	15.1	13.4	12.0	10.7							
F50	.00041490																				40.6	36.1	32.2	28.7	25.6	22.8	20.3	18.1	16.1	14.3	12.8	11.4	10.1						
F52	.00049400																					40.2	35.8	31.9	28.5	25.4	22.6	20.1	17.9	16.0	14.2	12.7	11.3	10.1					
F54	.00057090																						41.4	36.9	32.9	29.3	26.1	23.3	20.7	18.5	16.4	14.7	13.1	11.6	10.4				

## By Available Sets

Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E	Cat. No.	TOTAL	1-E	2-B	3-G	4-D	5-A	6-E
750	90.7	009	011	016	F24	F32	F42	900	154.2	012	016	F24	F30	F40	F50
Ultra Light		13.2	12.1	15.3	17.0	17.6	15.6	Light		24.9	24.2	30.2	28.7	26.0	20.3
800	128.5	011	014	F22	F28	F36	F46	1000	180.6	013	017	F26	F34	F44	F54
Extra Light		21.6	19.6	24.4	21.5	22.6	18.9	Medium		28.2	28.0	34.1	35.1	29.2	26.1

# Plain Steel - Tension



- High-Grade Carbon Steel Wire
- Proprietary Lock-Twist™ on Ball End
- Incredible Stability and Durability

## By Individual String

### 42" Overall Length

Cat. No.	Unit Weight	G4	F#4	F4	E4	D#4	D4	C#4	C4	B3	A#3	A3	G#3	G3	F#3	F3	E3	D#3	D3	C#3	C3	B2	A#2	A2	G#2	G2	F#2	F2	E2	D#2	D2	C#2	C2	B1	A#1	A1	G#1
008	.00001609	16.6	14.8	13.2	11.8	10.5	9.3	8.3																													
008 1/2	.00001709	17.7	15.7	14.0	12.5	11.1	9.9	8.8																													
009	.00001810	18.7	16.7	14.9	13.2	11.8	10.5	9.4	8.3																												
009 1/2	.00002159	22.3	19.9	17.7	15.8	14.1	12.5	11.2	9.9	8.9																											
010	.00002270	23.5	20.9	18.6	16.6	14.8	13.2	11.7	10.5	9.3	8.3																										
010 1/2	.00002500	25.9	23.0	20.5	18.3	16.3	14.5	12.9	11.5	10.3	9.1	8.1																									
011	.00002950	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																								
011 1/2	.00003080	31.9	28.4	25.3	22.5	20.1	17.9	15.9	14.2	12.6	11.3	10.0	8.9																								
012	.00003400	35.2	31.3	27.9	24.9	22.1	19.7	17.6	15.7	13.9	12.4	11.1	9.9	8.8																							
012 1/2	.00003540	36.6	32.6	29.1	25.9	23.1	20.6	18.3	16.3	15.5	12.9	11.5	10.3	9.2	8.2																						
013	.00003860		35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	9.9	8.9																						
013 1/2	.00004008		36.9	32.9	29.3	26.2	23.3	20.7	18.5	16.5	14.7	13.1	11.6	10.4	9.2	8.2																					
014	.00004770			34.9	31.1	27.7	24.7	21.9	19.6	17.4	15.5	13.8	12.3	11.0	9.8	8.7																					
015	.00005280				34.4	30.7	27.3	24.3	21.7	19.3	17.2	15.3	13.7	12.2	10.8	9.6	8.6																				
016	.00005900					24.3	30.5	27.2	24.2	21.6	19.2	17.1	15.3	13.6	12.1	10.8	9.6	8.6																			
017	.00006810						35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7	13.9	12.4	11.1	9.9	8.8																		
018	.00007270							37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.7	14.9	13.3	11.8	10.6	9.4	8.4																
019	.00007720								35.6	31.7	28.2	25.2	22.4	19.9	17.8	15.8	14.1	12.6	11.2	10.0	8.9																
020	.00008410									34.5	30.7	27.4	24.4	21.7	19.4	17.3	15.4	13.7	12.2	10.9	9.7	8.6															
021	.00009320										34.1	30.4	27.0	24.1	21.5	19.1	17.0	15.2	13.5	12.1	10.7	9.6	8.5														
022	.00011590											37.8	33.6	29.9	26.7	23.8	21.2	18.9	16.8	15.0	13.4	11.9	10.6	9.4	8.4												
024	.00014320													37.0	32.9	29.4	26.2	23.3	20.8	18.5	16.5	14.7	13.1	11.7	10.4	9.3	8.3										
026	.00015680														36.1	32.2	28.7	25.5	22.7	20.3	18.1	16.1	14.3	12.8	11.4	10.1	9.0	8.0									

## Final Thoughts

This tension guide is just that; a guide. You're the expert at your own personal playing style and needs, so if something doesn't feel/sound right, you can change it. Music is a very organic art form, so while you can start with science, you perfect it by touch and feel.

If you're perfectly happy with playing a pre-packaged set of strings, *GREAT!*

If you're excited about putting together that balanced tension set, *GREAT!*

If you want to try a set with less/more tension than what you're used to, *GREAT!*

You're playing. You're learning. That's the important part. We'll provide the strings; you provide the inspiration.

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