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GHS STRINGS
PLAY WITH THE BEST™

Bass String Guide

Updated May, 2019

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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 Bass 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 bass 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 bassists 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 below scale lengths in the enclosed guide; your individual instrument may vary.
 - Long Scale Plus - 34"
 - Standard Long Scale - 34"
 - Medium Scale - 32"
 - Short Scale - 30"
- 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.

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

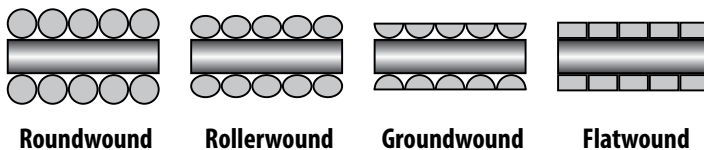
For those looking for a specific tension, you can use the formula below to get the unit weight for your particular needs. With that, compare the unit weight against the ones listed in the following pages to find the string gauge that meets your needs.

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

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.

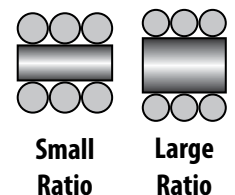
Frequency Chart

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

B0 30.9 Hz	E1 41.2 Hz	A1 55.0 Hz	D2 73.4 Hz	G2 98.0 Hz	C3 130.8 Hz	Nut / Open
C1 32.7 Hz	F1 43.7 Hz	A#1 58.3 Hz	D#2 77.8 Hz	G#2 103.8 Hz	C#3 138.6 Hz	First Fret
C#1 34.7 Hz	F#1 46.3 Hz	B1 61.7 Hz	E2 82.4 Hz	A2 110.0 Hz	D3 146.8 Hz	Second Fret
D1 36.7 Hz	G1 49.0 Hz	C2 65.4 Hz	F2 87.3 Hz	A#2 116.5 Hz	D#3 155.6 Hz	Third Fret
D#1 38.9 Hz	G#1 51.9 Hz	C#2 69.3 Hz	F#2 92.5 Hz	B2 123.5 Hz	E3 164.8 Hz	Fourth Fret
E1 41.2 Hz	A1 55.0 Hz	D2 73.4 Hz	G2 98.0 Hz	C3 130.8 Hz	F3 174.6 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.



Super Steels™ - Tension



- Grey Silks
- Stainless Steel Roundwound Strings
- Bright, Punchy and Articulate Tone

By Individual String

Long Scale Plus (38" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
PB18	.0000727	26.5	23.6	21.0	18.8	16.7																															
PB20	.0000841	30.7	27.3	24.3	21.7	19.3	17.2	15.3																													
STB027	.00016212		52.7	46.9	41.8	37.3	33.2	29.6	26.3	23.5	20.9	18.6	16.6																								
STB030	.00017301		56.3	50.1	44.6	39.8	35.4	31.6	28.1	25.0	22.3	19.9	17.7	15.8																							
STB035	.00023236					59.9	47.6	42.4	37.7	33.7	30.0	26.7	23.8	21.2	18.9	16.8																					
STB040	.00029172							53.2	47.4	42.3	37.6	33.5	29.9	26.6	23.7	21.1	18.8	16.8																			
STB044	.00038523									55.8	49.7	44.3	39.4	35.1	31.3	27.9	24.9	22.1	19.7	17.6	15.7																
STB046	.00040243									58.3	51.9	46.3	41.2	36.7	32.7	29.1	25.9	23.1	20.6	18.3	16.4																
STB050	.00048386											55.6	49.5	44.1	39.3	35.0	31.2	27.8	24.8	22.1	19.7	17.5	15.6														
STB058	.00059786												54.5	48.6	43.3	38.6	34.3	30.6	27.3	24.3	21.6	19.3	17.2	15.3													
STB063	.00077190													55.9	49.8	44.4	39.5	35.2	31.4	27.9	24.9	22.2	19.8	17.6	15.7												
STB067	.00082542														59.8	53.3	47.4	42.3	37.7	33.6	29.9	26.6	23.7	21.2	18.8	16.8											
STB070	.00095418																	54.8	48.8	43.5	38.8	34.5	30.8	27.4	24.5	21.7	19.4	17.3									
STB080	.00113651																		58.2	51.8	46.2	41.1	36.6	32.6	29.2	25.9	23.1	20.6	18.3	16.4							
STB084	.00129257																		58.9	52.6	46.8	41.7	37.1	33.2	29.5	26.2	23.4	20.8	18.6	16.5							
STB090	.00136385																			55.5	49.4	43.9	39.2	35.0	31.1	27.7	24.7	22.0	19.6	17.4	15.6						
STB098	.00181843																					58.6	52.2	46.6	41.5	36.9	32.9	29.3	26.2	23.3	20.7	18.5	16.5				
STB102	.00200935																						57.7	51.5	45.8	40.8	36.4	32.4	28.9	25.7	22.9	20.4	18.2	16.2			
STB106	.00214559																							55.0	48.9	43.6	38.8	34.6	30.9	27.5	24.5	21.8	19.4	17.3	15.3		
STB121	.00279247																									56.7	50.6	45.0	40.2	35.7	31.8	28.4	25.3	22.5	20.0		
STB126	.00291823																										59.3	52.9	47.1	42.0	37.3	33.3	29.6	26.4	23.5	21.0	

Medium Scale (35.5" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
5501 (.044)	.00034447							55.7	49.6	44.2	39.3	35.1	31.2	27.8	24.8	22.1	19.7	17.5	15.6																		
5502 (.063)	.00075784														54.6	48.6	43.3	38.6	34.4	30.6	27.3	24.3	21.6	19.3	17.2	15.3											
5503 (.084)	.00109724																		55.9	49.8	44.3	39.5	35.2	31.3	27.9	24.9	22.2	19.7	17.6	15.7							
5504 (.106)	.00199794																						57.0	50.9	45.4	40.4	36.0	32.0	28.5	25.5	22.6	20.2	16.0				

By Available Sets

Long Scale Plus (38" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
L5000 Light	153.5		STB40 33.5	STB58 38.6	STB80 41.1	STB102 40.8	
ML5000 Medium Light	176.0		STB44 44.3	STB63 49.8	STB80 41.1	STB102 40.8	
M5000 Medium	184.5		STB44 44.3	STB63 49.8	STB84 46.8	STB106 43.6	
CM5000 Custom Medium	184.3		STB46 46.3	STB67 53.3	STB80 41.1	STB106 43.6	

Standard Long Scale (36.5" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
SEM-STB Evan Marien Sig	159.3		STB35 26.7	STB58 38.6	STB70 34.5	STB90 27.7	STB121 31.8
5ML-STB Medium Light, 5 String	203.9		STB44 44.3	STB63 49.8	STB80 41.1	STB98 36.9	STB121 31.8
5M-STB Medium, 5 String	217.8		STB44 44.3	STB63 49.8	STB84 46.8	STB106 43.6	STB126 33.3
6L-STB Medium, 6 String	220.5	STB27 33.2	STB40 33.5	STB58 38.6	STB80 41.1	STB102 40.8	STB126 33.3

Medium Scale (35.5" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
5500 Medium	149.6		5501 (.044) 35.1	5502 (.063) 43.3	5503 (.084) 35.2	5504 (.106) 36.0	

Contact Core™ Super Steels™ - Tension



- Grey Silks
- Stainless Steel Roundwound Strings w/ Exposed Core
- Extra Clarity, Articulation and Action

By Individual String

Standard Long Scale (36.5" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0
CC60	.00064841													59.2	52.7	46.9	41.8	37.3	33.2	29.6	26.4	23.5	20.9	18.6	16.6											
CC65	.00072849													59.2	52.7	47.0	41.9	37.3	33.2	29.6	26.4	23.5	20.9	18.7	16.6											
CC80	.00110296																	56.5	50.3	44.9	39.9	35.6	31.7	28.3	25.1	22.4	20.0	17.8	15.9							
CC85	.00122664																	55.9	49.9	44.4	39.5	35.2	31.4	27.9	24.9	22.2	19.8	17.7	15.7							
CC100	.00168265																					54.2	48.3	43.2	38.4	34.2	30.4	27.1	24.2	21.5	19.2	17.1	15.2			
CC105	.00187551																					53.9	48.1	42.7	38.1	34.0	30.2	27.0	24.0	21.4	19.1	16.9	15.1			
CC125	.00272903																									55.4	49.4	44.0	39.3	34.9	31.1	27.7	24.7	22.0	19.6	
CC129	.00304755																									55.2	49.1	43.9	39.0	34.7	30.9	27.6	24.6	21.9		

By Available Sets

Standard Long Scale (36.5" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B	Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
L5200 Light	149.4		STB40 33.5	CC60 41.8	CC80 39.9	CC100 34.2		5L-CC Light, 5 String	180.5		STB40 33.5	CC60 41.8	CC80 39.9	CC100 34.2	CC125 31.1
M5200 Medium	173.8		STB44 44.3	CC65 47.0	CC85 44.4	CC105 38.1		5M-CC Medium, 5 String	208.5		STB44 44.3	CC65 47.0	CC85 44.4	CC105 38.1	CC129 34.7

Balanced Nickels - Tension



- Green Silk
- Pure Nickel over a Round Core Wire
- Balanced Wraps from String to String
- Tonally even across entire Fretboard

By Individual String

Universal Long Scale (37.25" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0
NB40	.00037608																																			
NB44	.00041369																																			
NB56	.00066571																																			
NB60	.00071326																																			
NB76	.00120125																																			
NB80	.00126442																																			
NB101	.00210063																																			
NB106	.00220462																																			
NB126	.00262059																																			
NB130	.00270378																																			

Short Scale (32.75" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
4701 (.044)	.00041369																																				
4702 (.060)	.00071326																																				
4703 (.080)	.00126442																																				
4704 (.106)	.00220462																																				

By Available Sets

Universal Long Scale (37.25" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
4L-NB Light	172.3		NB40 43.2	NB56 42.9	NB76 43.5	NB101 42.7	
4M-NB Medium	184.2		NB44 47.5	NB60 46.1	NB80 45.8	NB106 44.8	
5L-NB Light, 5 String	202.2		NB40 43.2	NB56 42.9	NB76 43.5	NB101 42.7	NB126 29.9
5M-NB Medium, 5 String	215.0		NB44 47.5	NB60 46.1	NB80 45.8	NB106 44.8	NB130 30.8

Short Scale (32.75" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
4700 Medium	143.3		4701 (.044) 37.0	4702 (.060) 35.8	4703 (.080) 35.6	4704 (.106) 34.9	

Round Core Bass Boomers® - Tension



- Red Silks
- Nickel-Plated Steel Roundwound Strings wound over a Round Core
- Fuller frequency sound with a soft top end

By Individual String

Universal Long Scale (37.25" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0		
RC-DYB30	.00016211						33.2	29.6	26.3	23.5	20.9	18.6	16.6																									
RC-DYB40	.00031495							57.5	51.2	45.6	40.6	36.2	32.2	28.7	25.6	22.8	20.3	18.1	16.1																			
RC-DYB45	.00037101									53.7	47.8	42.6	38.0	33.8	30.2	26.9	23.9	18.9	16.9	15.1																		
RC-DYB50	.00047242											54.3	48.4	43.1	38.4	34.2	30.5	27.2	24.2	21.5	19.2	17.1	15.2															
RC-DYB55	.00051411											59.1	52.6	46.9	41.8	37.2	33.2	29.5	26.3	23.5	20.9	18.6	16.5															
RC-DYB60	.00058724												53.6	47.7	42.5	37.9	33.7	30.1	26.8	23.9	21.3	18.9	16.9	15.1														
RC-DYB65	.00071326													58.0	51.7	46.0	41.0	36.5	32.5	29.0	25.8	23.0	20.5	18.3	16.3													
RC-DYB70	.00081914														59.3	52.8	47.1	42.0	37.4	33.3	29.6	26.4	23.5	21.0	18.7	16.6												
RC-DYB75	.00100619																57.8	51.5	45.9	40.9	36.4	32.4	28.9	25.8	22.9	20.4	18.2	16.2										
RC-DYB80	.00119324																	54.4	48.5	43.2	38.5	34.3	30.6	27.2	24.2	21.6	19.2	17.2	15.3									
RC-DYB85	.00136168																	55.4	49.3	43.9	39.1	34.9	31.0	27.7	24.7	21.9	19.6	17.4	15.5									
RC-DYB95	.00173438																		62.8	55.9	49.8	44.5	39.5	35.2	31.4	28.0	25.0	22.2	19.8	17.6	15.7							
RC-DYB100	.00188275																			54.1	48.3	42.9	38.2	34.1	30.4	27.1	24.1	21.5	19.1	17.0	15.2							
RC-DYB105	.00200873																			57.7	51.5	45.8	40.8	36.4	32.4	28.9	25.7	22.9	20.4	18.4	16.2							
RC-DYB115	.00224009																			57.5	51.1	45.5	40.5	36.1	32.3	28.7	25.5	22.8	20.3	18.1	16.1							
RC-DYB126	.00280684																				57.0	50.8	45.3	40.4	35.9	32.0	28.5	25.4	22.6	20.2								
RC-DYB130	.00311241																				56.4	50.2	44.8	39.8	35.5	31.6	28.2	25.1	22.4									

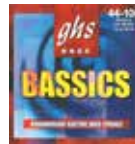
By Available Sets

Universal Long Scale (37.25" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
RC-L3045 Light	141.0		RC-DYB40 36.2	RC-DYB55 33.2	RC-DYB75 36.4	RC-DYB95 35.2	
RC-ML3045 Medium Light	170.0		RC-DYB45 42.6	RC-DYB65 46.0	RC-DYB80 43.2	RC-DYB100 38.2	
RC-M3045 Medium	178.7		RC-DYB45 42.6	RC-DYB65 46.0	RC-DYB85 49.3	RC-DYB105 40.8	
RC-H3045 Heavy	215.4		RC-DYB50 54.3	RC-DYB70 52.8	RC-DYB95 62.8	RC-DYB115 45.5	

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
RC-5ML-DYB Medium Light, 5 String	202.0		RC-DYB45 42.6	RC-DYB65 46.0	RC-DYB80 43.2	RC-DYB100 38.2	RC-DYB126 32.0
RC-5M-DYB Medium, 5 String	214.2		RC-DYB45 42.6	RC-DYB65 46.0	RC-DYB85 49.3	RC-DYB105 40.8	RC-DYB130 35.5
RC-6ML-DYB Medium Light, 6 String	235.2	RC-DYB30 33.2	RC-DYB45 42.6	RC-DYB65 46.0	RC-DYB80 43.2	RC-DYB100 38.2	RC-DYB126 32.0

Bassics® - Tension



- NO Silks
- Nickel-Plated Steel Roundwound Strings
- Clear and Present tone, without being too harsh

By Individual String - Standard Long Scale

Universal Long Scale (37.25" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0		
BAS27	.00019746			57.2	50.9	45.4	40.4	36.3	32.1	28.6	25.5	22.7	20.2	18.0	16.0																							
BAS40	.00029254							53.4	47.5	42.4	37.7	33.6	30.0	26.7	23.8	21.2	18.9	16.8	15.0																			
BAS44	.00034672									56.3	50.2	44.7	39.9	35.5	31.6	28.2	25.1	22.4	19.9	17.8	15.8																	
BAS58	.00061412													56.0	49.9	44.5	39.6	35.3	31.4	28.0	25.0	22.2	19.8	17.6	15.7													
BAS63	.00074073														53.7	47.8	42.6	37.9	33.8	30.1	26.8	23.9	21.3	19.0	16.9	15.0												
BAS80	.00116093																	59.4	52.9	47.2	42.0	37.4	33.4	29.8	26.5	23.6	21.0	18.7	16.7									
BAS84	.00130673																	59.6	53.2	47.3	42.2	37.5	33.5	29.8	26.5	23.7	21.1	18.8	16.7									
BAS102	.00187526																			53.9	48.1	42.7	38.1	33.9	30.2	27.0	24.0	21.4	19.1	17.0	15.1							
BAS106	.00202522																			58.2	52.0	46.2	41.1	36.7	32.7	29.2	25.9	23.1	20.6	18.3	16.3							
BAS130	.00324209																				58.7	52.3	46.7	41.5	36.9	32.9	29.3	26.1	23.3									

By Available Sets

Universal Long Scale (37.25" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
L6000 Light	153.3		BAS40 33.6	BAS58 39.6	BAS80 42.0	BAS102 38.1	
ML6000 Medium Light	167.8		BAS44 39.9	BAS63 47.8	BAS80 42.0	BAS102 38.1	

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
M6000 Medium	176.1		BAS44 39.9	BAS63 47.8	BAS84 47.3	BAS106 41.1	
M6000-5 Medium, 5 String	213.0		BAS44 39.9	BAS63 47.8	BAS84 47.3	BAS106 41.1	BAS130 36.9

Bass Boomers® - Tension



- Red Silks / Gold Silks (Short Scale)
- Nickel-Plated Steel Roundwound String
- The Original POWER String
- Punch and Definition

By Individual String

Long Scale Plus (38" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0									
DYB30X	.00017947	58.3	51.9	46.3	41.2	36.7	32.7	29.1	26.0	23.1	20.6	18.4	16.4																																
DYB40X	.00031887											58.2	51.8	46.2	41.1	36.6	32.6	29.1	25.9	23.1	20.6	18.3	16.3																						
DYB45X	.00041633											53.7	47.8	42.6	38.0	33.8	30.2	26.8	23.9	21.3	18.9																								
DYB50X	.00047323													54.4	48.4	43.2	38.5	34.3	30.5	27.2	24.2	21.6	19.2	17.1																					
DYB55X	.00057105																58.5	52.1	46.4	41.4	36.8	32.8	29.2	26.0	23.2	20.7	18.4	16.4																	
DYB65X	.00080788																	58.5	52.2	46.4	41.4	36.8	32.8	29.2	26.0	23.2	20.7	18.4	16.4																
DYB70X	.00091866																		59.3	52.8	47.0	41.9	37.4	33.2	29.6	26.4	23.6	20.9	18.7	16.6															
DYB75X	.00104534																			53.5	47.7	42.5	37.8	33.7	30.0	26.8	23.8	21.2	18.9	16.8															
DYB80X	.00131659																				53.6	47.6	42.4	37.8	33.8	30.0	26.7	23.8	21.2	18.9	16.8	15.0													
DYB85X	.00141093																					57.4	51.1	45.5	40.5	36.2	32.2	28.7	25.5	22.8	20.3	18.0	16.1												
DYB90X	.00155487																						56.3	50.1	44.7	39.9	35.4	31.6	28.1	25.1	22.4	19.9	17.7	15.8	14.1										
DYB95X	.00178139																							57.4	51.2	45.7	40.6	36.2	32.3	28.7	25.7	22.8	20.3	18.1	16.1										
DYB100X	.00193456																								55.6	49.6	44.1	39.3	35.0	31.2	27.9	24.8	22.0	19.6	17.5	15.6									
DYB105X	.00214494																									55.0	48.9	43.6	38.8	34.6	30.9	27.4	24.4	21.8	19.4	17.3	15.4								

Universal Long Scale (37.25" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0									
PB18	.00007270	26.5	23.6	21.1	18.7	16.7																																							
PB20	.00008410	30.7	27.3	24.3	21.7	19.3	17.2	15.3																																					
DYB20	.00009726	35.5	31.6	28.2	25.1	22.4	19.9	17.7	15.8																																				
DYB25	.00014277	52.1	46.4	41.3	36.8	32.8	29.3	26.0	23.2	20.7	18.4	16.4																																	
DYB30	.00018173						52.6	46.8	41.8	37.2	33.2	29.5	26.3	23.4	20.9	18.6	16.6																												
DYB35	.00022576							51.9	46.2	41.2	36.7	32.7	29.1	26.0	23.1	20.6	18.4	16.3																											
DYB40	.00029254								53.4	47.5	42.3	37.7	33.6	29.9	26.7	23.8	21.2	18.9	16.8																										
DYB45	.00039025									56.5	50.3	44.8	39.9	35.6	31.7	28.3	25.2	22.4	20.0	17.8																									
DYB50	.00044866										57.8	51.6	45.9	40.9	36.5	32.5	28.9	25.8	22.9	20.5	18.3	16.2																							
DYB55	.00054649											56.0	49.9	44.4	39.6	35.3	31.4	28.0	24.9	22.3	19.8	17.6	15.7																						
DYB60	.00065431												59.7	53.2	47.4	42.2	37.6	33.5	29.8	26.6	23.7	21.1	18.8	16.8																					
DYB65	.00077758													56.3	50.2	44.7	39.8	35.5	31.6	28.1	25.1	22.3	20.0	17.7																					
DYB70	.00087143														56.2	50.0	44.6	39.7	35.4	31.5	28.1	25.0	22.4	19.8	17.7																				
DYB75	.00099196															57.0	50.8	45.3	40.3	35.9	32.0	28.5	25.4	22.6	20.1	17.9	16.0																		
DYB80	.00124296																56.7	50.6	45.0	40.1	35.7	31.9	28.3	25.2	22.5	20.0	17.9	15.9																	
DYB85	.00136441																	55.5	49.4	44.0	39.2	35.0	31.1	27.7	24.7	22.0	19.7	17.5																	
DYB95	.00177657																		57.3	51.0	45.6	40.5	36.1	32.2	28.6	25.6	22.7	20.2	18.0	16.0															
DYB100	.00186258																			53.5	47.8	42.5	37.8	33.7	30.0	26.8	23.8	21.2	18.9	16.8	15.0														
DYB105	.00207884																				59.7	53.3	47.4	42.2	37.6	33.5	29.9	26.6	23.7	21.1	18.8	16.7													
DYB110	.00246386																					56.2	50.0	44.6	39.7	35.4	31.5	28.1	25.0	22.4	19.8	17.7													
DYB115	.00241806																						55.2	49.1	43.8	39.0	34.8	30.9	27.6	24.6	21.9	19.5	17.4												
DYB120	.00274276																							55.7	49.7	44.3	39.5	35.1	31.3	27.9	24.8	22.1	19.7												
DYB125	.00303173																								54.9	48.9	43.7	38.8	34.6	30.8	27.4	24.4	21.8												
DYB126	.00296169																									52.8	47.0	42.0	37.3	33.3	29.6	26.4	23.5	20.9											
DYB130	.00338012																										58.7	52.3	46.7	41.5	37.0	32.9	29.3	26.1	23.3										
DYB135	.00336554																											54.3	48.5	43.1	38.4	34.2	30.5	27.1	24.2										
DYB140	.00349147																												56.3	50.3	44.7	39.8	35.5	31.6	28.2	25.1									
DYB145	.00361617																													58.3	52.1	46.3	41.2	36.7	32.7	29.2	26.0								

Medium Scale (35.5" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0					
3041 (.045)	.00041107									59.1	52.7	46.9	41.8	37.3	33.2	29.6	26.4	23.4	20.9	18.6	16.6																				
3042 (.065)	.00064630													58.6	52.3	46.5	41.5	36.9	32.9	29.3	26.1	23.3	20.7	18.4	16.4																
3143 (.080)	.00110995																56.5	50.3	44.8	40.0	35.6	31.7	28.3	25.2	22.4	20.0	17.8	15.9													
3043 (.085)	.00124381																	56.4	50.3	44.8	39.9	35.5	31.6	28.3	25.1	22.4	19.9	17.8	15.9												
3144 (.100)	.00169832																		54.5	48.5	43.2	38.6	34.3	30.5	27.2	24.3	21.7	19.3	17.1	15.2											
3044 (.105)	.00181699																			58.3	51.9	46.2	41.3	36.7	32.7	29.1	26.0	23.2	20.6	18.4	16.4										

Bass Boomers® - Tension (cont.)

Short Scale (32.75" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
3136 (.045)	.00041435							58.8	52.3	46.7	41.6	37.1	33.0	29.4	26.2	23.3	20.8	18.5	16.5																		
3036 (.050)	.00047666									53.7	47.8	42.6	38.0	33.8	30.2	26.9	23.9	21.3	19.0	16.9	15.1																
3137 (.060)	.00066895											59.8	53.3	47.5	42.3	37.7	33.6	29.9	26.7	23.7	21.2	18.8	16.8														
3037 (.070)	.00088008												55.7	49.6	44.2	39.4	35.1	31.3	27.9	24.8	22.1	19.7	17.6	15.6													
3138 (.075)	.00099367															49.9	44.5	39.6	35.3	31.4	28.0	24.9	22.2	19.8	17.6	15.7											
3038 (.090)	.00147901																	58.9	52.5	46.8	41.7	37.1	33.1	29.5	26.2	23.4	20.8	18.6	16.6								
3139 (.095)	.00162311																		57.6	51.4	45.7	40.7	36.3	32.4	28.8	25.7	22.9	20.4	18.2	16.2							
3039 (.107)	.00208113																		58.6	52.2	46.6	41.6	36.9	32.9	29.3	26.1	23.3	20.7	18.5	16.4							

By Available Sets

Long Scale Plus (38" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
P3045 Piccolo	122.4		PB18 33.4	DYB30X 46.3	DYB40X 46.2	DYB50X 38.5	
L3045X Light	147.4		DYB40X 36.6	DYB55X 36.8	DYB75X 37.8	DYB95X 36.2	
ML3045X Medium Light	185.4		DYB45X 47.8	DYB65X 52.2	DYB80X 47.6	DYB100 37.8	
M3045X Medium	194.7		DYB45X 47.8	DYB65X 52.2	DYB85X 51.1	DYB105X 43.6	
5M-C-DYB Medium, 5 String	222.1	DYB30X 36.7	DYB45X 47.8	DYB65X 52.2	DYB80X 47.6	DYB100 37.8	
8L5-DYB Regular, 8 String	278.8	Octaves Regulars	PB20 38.6 DYB40X 36.6	DYB25 36.8 DYB55X 36.8	DYB35 32.7 DYB70X 33.2	DYB45X 33.8 DYB90X 31.6	

Medium Scale (35.5" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
3140 Medium Light	144.8		3041 (.045) 41.8	3042 (.065) 36.9	3143 (.080) 35.6	3144 (.100) 30.5	
3040 Regular	148.3		3041 (.045) 41.8	3042 (.065) 36.9	3043 (.085) 39.9	3044 (.105) 32.7	

Short Scale (32.75" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
3135 Light	124.4		3136 (.045) 37.1	3137 (.060) 33.6	3138 (.075) 28.0	3139 (.095) 25.7	
3035 Regular	161.4		3036 (.050) 42.6	3037 (.070) 44.2	3038 (.090) 41.7	3039 (.107) 32.9	

Universal Long Scale (37.25" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
XL3045 Extra Light	109.1		DYB30 20.9	DYB50 28.9	DYB70 31.5	DYB90 27.8	
L3045 Light	140.8		DYB40 33.6	DYB55 35.2	DYB75 35.9	DYB95 36.1	
ML3045 Medium Light	177.7		DYB45 44.8	DYB65 50.1	DYB80 45.0	DYB100 37.8	
M3045 Medium	186.5		DYB45 44.8	DYB65 50.1	DYB85 49.4	DYB105 42.2	
M3045F Flea Signature Set	186.5		DYB45 44.8	DYB65 50.1	DYB85 49.4	DYB105 42.2	
H3045 Heavy	221.0		DYB50 51.3	DYB70 56.2	DYB95 64.3	DYB115 49.2	
4ML-B-DYB Med Light, BEAD Tuning	158.2			DYB60 42.2	DYB80 45.0	DYB100 37.8	DYB126 33.2
4M-B-DYB Medium, BEAD Tuning	180.2			DYB65 50.1	DYB85 49.4	DYB105 42.2	DYB130 38.5
4H-B-DYB Heavy, BEAD Tuning	202.0			DYB70 56.2	DYB90 56.8	DYB115 49.2	DYB140 39.8
5L-DYB Light, 5 String	172.1		DYB40 33.6	DYB55 35.2	DYB75 35.9	DYB95 36.1	DYB120 31.3
5ML-DYB Medium Light, 5 String	210.9		DYB45 44.8	DYB65 50.1	DYB80 45.0	DYB100 37.8	DYB126 33.2
5M-DYB Medium, 5 String	225.0		DYB45 44.8	DYB65 50.1	DYB85 49.4	DYB105 42.2	DYB130 38.5
6ML-DYB Medium Light, 6 String	248.1	DYB30 37.2	DYB45 44.8	DYB65 50.1	DYB80 45.0	DYB100 37.8	DYB126 33.2

Crossovers - Tension

By Individual String

NS Standard Double Bass 3/4 Length (46.5" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
NS537	.00032422											56.9	50.7	45.1	40.2	35.8	31.9	28.4	25.4	22.6	20.1																
NS53	.00062989															69.6	62.0	55.2	49.2	43.8	39.1	34.8	30.9	27.6	24.6	21.9											
NS74	.00110231																			68.4	60.9	54.2	48.3	43.2	38.3	34.2	30.4	27.1	24.2	21.5							
NS104	.00204715																								71.2	63.4	56.6	50.4	45.0	40.0	35.6	31.7	28.3	25.2	22.4		
NS127	.00314940																											69.2	61.5	54.8	48.8	43.5	38.7	34.5			



- Red Silks
- Nickel-Iron Groundwound Strings
- Mellow sound, with definition and sustain
- For NS Design CR and NXT Electric-Upright Bases ONLY!

By Available Sets

NS Standard Double Bass 3/4 Length (46.5" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
NS3075 Medium	243.2		NS37 56.9	NS53 62.0	NS74 60.9	NS104 63.4	
NS3075-5 Medium, 5 String	298.0		NS37 56.9	NS53 62.0	NS74 60.9	NS104 63.4	NS127 54.8

Progressives™ - Tension



- Burgundy Silks
- Nickel-Iron Roundwound Strings
- Exposed Core on E & B Strings
- Higher Output, Punchy, Aggressive Tone

By Individual String

Long Scale Plus (38" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
PRB030	.0014882	54.3	48.4	43.1	38.4	34.2	30.5	27.2	24.2	21.5	19.2	17.1	15.2																								
PRB035	.0022588				58.3	51.2	46.3	41.2	36.7	32.7	29.1	26.0	23.1	20.6	18.4	16.3																					
PRB040	.0028882							52.7	46.9	41.8	37.2	33.2	29.6	26.3	23.5	20.9	18.6	16.6																			
PRB045	.0039303									56.9	50.7	45.2	40.2	35.8	31.9	28.5	25.4	22.6	20.1	17.9	16.0																
PRB055	.0048831											56.1	50.0	44.5	39.7	35.4	31.5	28.1	25.0	22.3	19.9	17.7	15.7														
PRB060	.0064823												59.1	52.7	46.9	41.8	37.2	33.2	29.6	26.4	23.5	20.9	18.6	16.6													
PRB065	.0073558													59.7	53.3	47.4	42.3	37.7	33.6	29.9	26.6	23.7	21.1	18.9	16.8												
PRB080	.0113235														57.9	51.6	46.0	41.0	36.5	32.5	29.0	25.8	23.0	20.5	18.3	16.3											
PRB085	.0135735																	55.2	49.1	43.7	39.0	34.8	30.9	27.6	24.6	21.9	19.6	17.4	15.5								
PRB095	.0169529																				54.6	48.7	43.5	38.7	34.4	30.7	27.4	24.4	21.7	19.3	17.2	15.3					
PRB100	.0183720																				59.2	52.8	47.1	41.9	37.3	33.3	29.6	26.5	23.5	20.9	18.7	16.6					
PRB105	.0187199																					53.8	48.0	42.7	38.0	33.9	30.2	27.0	24.0	21.3	19.0	16.9	15.1				
PRB126	.0240211																						54.8	48.8	43.5	38.7	34.6	30.7	27.4	24.4	21.7	19.4	17.2				
PRB130	.0276601																							56.2	50.8	44.6	39.9	35.4	31.5	28.1	25.0	22.3	19.9				

Medium Scale (35.5" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0		
8201 (.045)	.0039303									56.5	50.4	44.9	40.0	35.6	31.8	28.3	25.2	22.5	20.0	17.8	15.9																	
8202 (.065)	.0073558												59.4	52.9	47.2	42.0	37.4	33.4	29.7	26.5	23.6	21.0	18.7	16.7														
8203 (.080)	.0113235																	57.6	51.4	45.8	40.8	36.3	32.3	28.8	25.7	22.9	20.4	18.2	16.2									
8204 (.100)	.0183720																					58.9	52.5	46.8	41.7	37.1	33.6	29.5	26.2	23.4	20.8	18.6	16.5					
8205 (.130)	.0276703																							55.9	49.8	44.4	39.5	35.3	31.4	28.0	24.9	22.2	19.8	17.6				

By Available Sets

Long Scale Plus (38" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
XL8000 Extra Light	124.0		PRB35 26.0	PRB55 31.5	PRB75 32.1	PRB95 34.4	
L8000 Light	153.3		PRB40 33.2	PRB60 41.8	PRB80 41.0	PRB100 37.3	
M8000X Medium	179.7		PRB45 45.2	PRB65 47.4	PRB85 49.1	PRB106 38.0	
5L8000 Light, 5 String	180.7		PRB40 33.2	PRB60 41.8	PRB80 41.0	PRB100 37.3	PRB126 27.4

Standard Long Scale (36.5" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
M8000 Medium	179.7		PRB45 45.2	PRB65 47.4	PRB85 49.1	PRB105 38.0	
5M8000 Medium, 5 String	211.2		PRB45 45.2	PRB65 47.4	PRB85 49.1	PRB105 38.0	PRB130 31.5

Medium Scale (35.5" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
8200 Medium Light	179.7		8201 (.045) 40.0	8202 (.065) 42.0	8203 (.080) 36.3	8204 (.100) 33.6	

Tapewounds - Tension



- Red Silks
- Black Nylon Tape over Flatwound Strings
- Smooth, Mellow Sound
- Lower Tension than Standard Gauges

By Individual String

Universal Long Scale (37.25" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0			
3061 (.050)	.00035663									57.9	51.6	46.0	40.9	36.5	32.5	28.9	25.8	23.0	20.5	18.3	16.3																		
3062 (.070)	.00074452															53.9	48.0	42.8	38.1	33.9	30.3	26.9	24.0	21.4	19.1	17.0													
3063 (.090)	.00123199																			56.2	50.1	44.6	39.7	35.4	31.6	28.1	25.0	22.3	19.9	17.8	15.8								
3064 (.105)	.00168588																					54.3	48.4	43.2	38.4	34.3	30.5	27.2	24.3	21.6	19.3	17.1	15.3						
3065 (.130)	.00226940																							58.2	51.7	46.1	41.1	36.6	32.7	29.0	25.9	23.1	20.5	18.3	16.3				

By Available Sets

Universal Long Scale (37.25" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
3060 Regular	167.8		3061 (.050) 40.9	3062 (.070) 48.0	3063 (.090) 44.6	3064 (.105) 34.3	
3060-5 Regular, 5 String	193.7		3061 (.050) 40.9	3062 (.070) 48.0	3063 (.090) 44.6	3064 (.105) 34.3	3065 (.130) 25.9

Pressurewound™ - Tension



- Black Silks
- Nickel-Iron Rollerwound Strings
- Smooth feel, mellow tone with articulation

By Individual String

Universal Long Scale (37.25" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0			
PWB28	.00016178	52.6	46.9	41.7	37.2	33.2	29.5	26.3	23.4	20.9	18.6	16.6																											
PWB40	.00032349						59.0	52.5	46.8	41.7	37.2	33.1	29.5	26.3	23.4	20.8	18.6	16.6																					
PWB44	.00037715								54.6	48.6	43.3	38.6	34.4	30.6	27.3	24.3	21.7	19.3	17.2																				
PWB054	.00056615												58.0	51.6	46.0	41.0	36.5	32.5	29.0	25.8	23.0	20.5	18.3	16.3															
PWB058	.00064945													59.2	52.8	47.0	41.9	37.3	33.2	29.6	26.4	23.5	20.9	18.7															
PWB062	.00075360														54.6	48.6	43.3	38.6	34.4	30.6	27.3	24.3	21.7	19.3	17.2														
PWB076	.00108491																	55.5	49.5	44.1	39.3	35.0	31.2	27.8	24.7	22.0	19.6	17.5											
PWB080	.00123089																		56.1	50.1	44.6	39.7	35.4	31.6	28.1	25.0	22.3	19.8	17.7	15.8									
PWB084	.00130260																		59.4	53.0	47.2	42.0	37.4	33.4	29.7	26.5	23.6	21.0	18.8	16.7									
PWB096	.00168590																			54.4	48.4	43.3	38.4	34.2	30.5	27.2	24.3	21.6	19.2	17.1	15.3								
PWB102	.00194575																				55.9	49.9	44.4	39.5	35.2	31.4	28.0	24.9	22.2	19.8	17.6	15.7							
PWB106	.00236502																								53.9	48.0	42.8	38.1	34.1	30.3	26.9	24.0	21.4	19.1					
PWB128	.00297998																									54.0	48.0	42.9	38.1	34.0	30.3	27.0	24.0	21.4					

Short Scale (32.75" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0			
7701 (.040)	.00033069						52.7	46.9	41.8	37.3	33.2	29.6	26.4	23.5	20.9	18.7	16.6																						
7702 (.054)	.00060118												53.8	47.9	42.7	38.0	33.9	30.2	26.9	24.0	21.3	19.0	16.9	15.1															
7703 (.076)	.00128603																		57.5	51.3	45.7	40.7	36.2	32.3	28.8	25.7	22.8	20.3	18.1	16.1									
7704 (.096)	.00183720																			51.8	46.1	41.1	36.7	32.6	29.1	25.9	23.1	20.6	18.3	16.3									

By Available Sets

Universal Long Scale (37.25" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
L7200 Light	147.2		PWB40 37.2	PWB54 36.5	PWB76 39.3	PWB96 34.2	
ML7200 Medium Light	169.3		PWB44 43.3	PWB58 41.9	PWB80 44.6	PWB102 39.5	
M7200 Medium	187.1		PWB44 43.3	PWB62 48.6	PWB84 47.2	PWB106 48.0	
M7200-5 Medium, 5 String	221.1		PWB44 43.3	PWB62 48.6	PWB84 47.2	PWB106 48.0	PWB128 34.0

Short Scale (32.75" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
7700 Light	125.1		7701 (.040) 29.6	7702 (.054) 30.2	7703 (.076) 36.2	7704 (.096) 29.1	

Pressurewound™ Bronze - Tension



- NO Silks
- Phosphor Bronze Rollerwound Strings
- No harsh overtones or finger noise
- Sound great with Magnetic Pickups!

By Individual String

Universal Long Scale (37.25" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0				
RBB42	.00030281							55.2	49.2	43.8	39.0	34.8	31.0	27.6	24.6	21.9	19.5	17.4	15.5																					
RBB56	.00062680													57.2	50.9	45.4	40.4	36.0	32.1	28.6	25.5	22.7	20.2	18.0	16.1															
RBB74	.00109518																		56.1	49.9	44.5	39.6	35.3	31.5	28.1	25.0	22.2	19.8	17.7	15.8										
RBB92	.00170037																			54.8	48.9	43.6	38.7	34.5	30.8	27.4	24.5	21.8	19.4	17.3	15.4									
RBB120	.00264771																									53.8	47.9	42.7	38.1	33.9	30.2	26.9	24.0	21.4	19.1					

By Available Sets

Universal Long Scale (37.25" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
4L-RBB Light	149.3		RBB42 34.8	RBB56 40.4	RBB74 39.6	RBB92 34.5	

Brite Flats™ - Tension



- Dark Blue Silks
- Light Blue Silks (Medium, Short Scale)
- Nickel-Iron Groundwound Strings
- Mellow sound, with definition and sustain

By Individual String

Long Scale Plus (38" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
BF27	.00016294		52.3	47.2	42.0	37.4	33.4																														
BF45	.00033286							54.1	48.2	42.9	38.3	34.1	30.4	27.0	24.1	21.5	19.2	17.0	15.2																		
BF49	.00037284								54.0	48.1	42.8	38.2	34.0	30.3	27.0	24.0	21.4	19.1	17.0	15.2																	
BF52	.00045956									59.3	52.8	47.1	41.9	37.3	33.3	29.6	26.4	23.5	20.9	18.7	16.3																
BF56	.00055712											57.0	50.8	45.3	40.4	35.9	32.0	28.5	25.4	22.7	20.2	18.0	16.0														
BF62	.00068278												55.5	49.5	44.0	39.2	34.9	31.1	27.8	24.7	22.0	19.6	17.5	15.6													
BF65	.00074284													53.8	47.9	42.7	38.0	33.9	30.2	26.9	23.9	21.3	19.1	16.9													
BF77	.00108720																55.7	49.6	44.2	39.3	35.0	31.3	27.9	24.8	22.1	19.7	17.5										
BF84	.00136654																		55.6	49.5	44.0	39.3	35.1	31.1	27.7	24.7	22.0	19.7	17.5								
BF98	.00191153																					54.9	49.0	43.6	38.8	34.6	30.8	27.5	24.5	21.8	19.4	17.3	15.4				
BF103	.00206683																					59.4	53.0	47.1	42.0	37.4	33.3	29.8	26.4	23.6	21.0	18.7	16.7				
BF108	.00220740																					56.6	50.3	44.8	40.0	35.6	31.8	28.2	25.2	22.4	20.0	17.8	15.9				
BF129	.00319394																											51.5	46.0	40.8	36.4	32.5	28.9	25.8	22.9		

Medium Scale (35.5" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
3066 (.049)	.00045345									58.2	51.8	46.2	41.2	36.6	32.7	29.1	25.9	23.1	20.6	18.3	16.4																
3067 (.062)	.00069298												56.0	49.8	44.5	39.6	35.3	31.4	28.0	24.9	22.2	19.8	17.6	15.7													
3068 (.084)	.00120910																	54.8	48.8	43.6	38.8	34.5	30.8	27.5	24.4	21.7	19.4	17.3	15.4								
3069 (.108)	.00218012																					55.5	49.5	44.0	39.2	34.9	31.1	27.8	24.7	22.0	19.6	17.4					

Short Scale (32.75" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
3071 (.049)	.00047964									54.1	48.2	42.9	38.2	34.1	30.3	27.0	24.1	21.5	19.1	17.0																	
3072 (.062)	.00072449												57.7	51.4	45.8	40.9	36.4	32.4	28.9	25.7	23.0	20.4	18.2	16.2													
3073 (.084)	.00125724																	56.3	50.1	44.6	39.8	35.4	31.6	28.1	25.1	22.3	19.9	17.7	15.8								
3074 (.108)	.00218012																					54.7	48.8	43.5	38.7	34.5	30.7	27.4	24.5	21.7	19.4	17.2	15.4				

By Available Sets

Long Scale Plus (38" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
L3075 Light	152.3		BF45 38.3	BF56 35.9	BF77 39.3	BF98 38.8	
ML3075 Medium Light	192.2		BF52 52.8	BF65 47.9	BF84 49.5	BF103 42.0	
M3075 Medium	181.1		BF49 42.8	BF62 44.0	BF84 49.5	BF108 44.8	
M3075-5 Medium, 5 String	217.5		BF49 42.8	BF62 44.0	BF84 49.5	BF108 44.8	BF129 36.4

Medium Scale (35.5" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
3065 Regular	163.8		3066 (.049) 46.2	3067 (.062) 39.6	3068 (.084) 38.8	3069 (.108) 39.2	

Short Scale (32.75" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
3070 Regular	150.2		3071 (.049) 42.9	3072 (.062) 36.4	3073 (.084) 35.4	3074 (.108) 35.5	

Precision Flats™ - Tension



- Purple Silks
- Stainless Steel Polished Flatwound
- Dark, thick, thumpy tone

By Individual String

Long Scale Plus (38" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0	
FB28	.0016859		54.8	48.8	43.5	38.7	34.5	30.7	27.3	24.4	21.7	19.4	17.3	15.4																							
FB45	.00036100							58.6	52.3	46.5	41.5	36.9	32.9	29.3	26.1	23.3	20.7	18.5	16.5																		
FB55	.00059573													54.3	48.4	43.2	38.4	34.2	30.5	27.2	24.2	21.6	19.2	17.1	15.3												
FB60	.00072062													58.6	52.2	46.5	41.4	36.9	32.9	29.3	26.1	23.2	20.7	18.5	16.4												
FB65	.00078579													56.9	50.7	45.2	40.2	35.8	31.9	28.4	25.3	22.6	20.2	17.9	15.9												
FB70	.00096566															55.5	49.4	44.0	39.3	34.9	31.1	27.7	24.8	22.0	19.6	17.5	15.6										
FB75	.00106341															54.4	48.5	43.3	38.5	34.3	30.5	27.3	24.2	21.6	19.3	17.1	15.3										
FB80	.00123933															56.5	50.4	44.9	39.9	35.6	31.8	28.3	25.2	22.4	20.0	17.9	15.9										
FB85	.00141525															57.6	51.2	45.6	40.7	36.3	32.3	27.7	25.6	22.8	20.4	18.1	16.1										
FB90	.00157079															56.9	50.6	45.1	40.3	35.8	31.9	28.4	25.3	22.6	20.1	17.9	15.9										
FB95	.00180706															58.2	51.9	46.4	41.0	36.7	32.7	29.1	26.0	23.1	20.6	18.3	16.4										
FB105	.00203172															58.4	52.1	46.3	41.2	36.8	32.8	29.3	26.0	23.2	20.6	18.4	16.4										
XLFB126	.00301768																											54.6	48.7	43.4	38.6	34.4	30.7	27.3	24.3	21.7	

Medium Scale (35.5" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0		
3121 (.045)	.00034470							55.7	49.6	44.2	39.4	35.1	31.3	27.8	24.8	22.1	19.7	17.5	15.6																			
3122 (.060)	.00068894													55.7	49.6	44.2	39.4	35.0	31.2	27.8	24.8	22.1	19.7	17.5	15.7													
3123 (.075)	.00103342													59.0	52.6	46.9	41.7	37.2	33.1	29.5	26.3	23.5	20.9	18.6	16.6													
3124 (.095)	.00172236															55.3	49.2	43.8	39.1	34.8	31.0	27.6	24.6	21.9	19.5	17.4	15.5											

Short Scale (32.75" Winding Length)

Cat. No.	Unit Weight	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	G1	F#1	F1	E1	D#1	D1	C#1	C1	B0	A#0	A0	G#0	G0		
3021 (.045)	.00041594							59.1	52.6	46.9	41.7	37.2	33.2	29.5	26.3	23.4	20.9	18.6	16.6																			
3022 (.060)	.00066346											59.4	52.9	47.1	41.9	37.4	33.3	29.7	26.4	23.6	21.0	18.7	16.6															
3023 (.075)	.00097376													54.9	48.9	43.6	38.8	34.6	30.8	27.4	24.4	21.8	19.5	17.3	15.4													
3024 (.095)	.00153294															54.4	48.5	43.2	38.5	34.3	30.6	27.2	24.3	21.6	19.2	17.2	15.3											

By Available Sets

Long Scale Plus (38" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
3025	163.2	Light	FB45	FB60	FB75	FB95	
			41.5	46.5	38.5	36.7	
CM3050	174.1	Custom Medium	FB45	FB60	FB80	FB105	
			41.5	46.5	44.9	41.2	
M3050	184.6	Medium	FB45	FB65	FB85	FB105	
			41.5	50.7	51.2	41.2	
3050	229.1	Regular	FB55	FB70	FB90	FB105	
			68.8	62.2	56.9	41.2	
M3050X-5	219.0	Medium, 5 String	FB45	FB65	FB85	FB105	XLFB126
			41.5	50.7	51.2	41.2	34.4

Universal Long Scale (37.25" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
M3050-5	219.0	Medium, 5 String	FB45	FB65	FB85	FB105	FB126
			41.5	50.7	51.2	41.2	34.4

Medium Scale (35.5" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
3120	138.6	Light	3121 (.045)	3122 (.060)	3123 (.075)	3124 (.095)	
			35.1	39.4	33.1	31.0	

Short Scale (32.75" Winding Length)

Cat. No.	TOTAL	High C	1-G	2-D	3-A	4-E	5-B
3020	122.2	Light	3021 (.045)	3022 (.060)	3023 (.075)	3024 (.095)	
			37.2	33.3	27.4	24.3	

Final Thoughts

This tension guide is just that; a guide. You're the expert at your own personal playing style and needs; if something doesn't feel/sound right, 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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