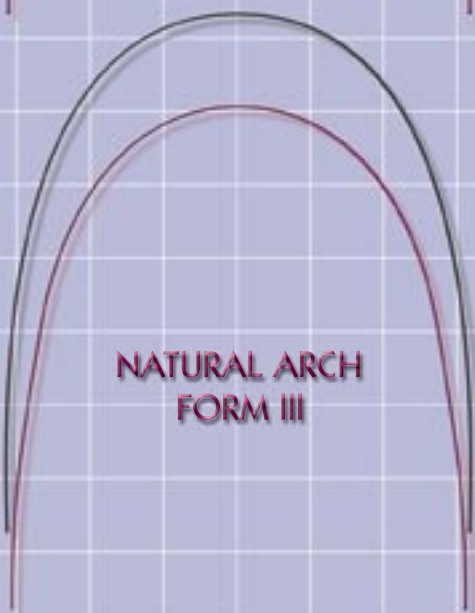
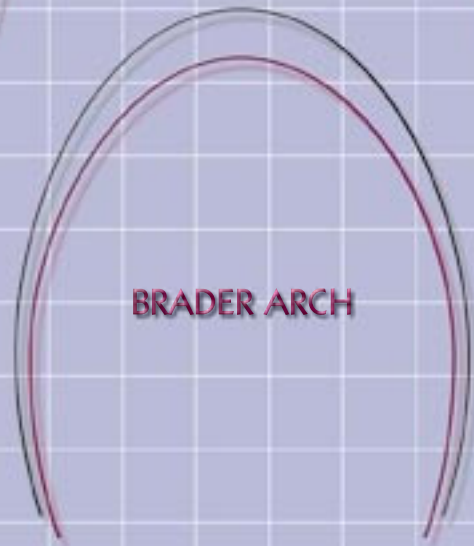
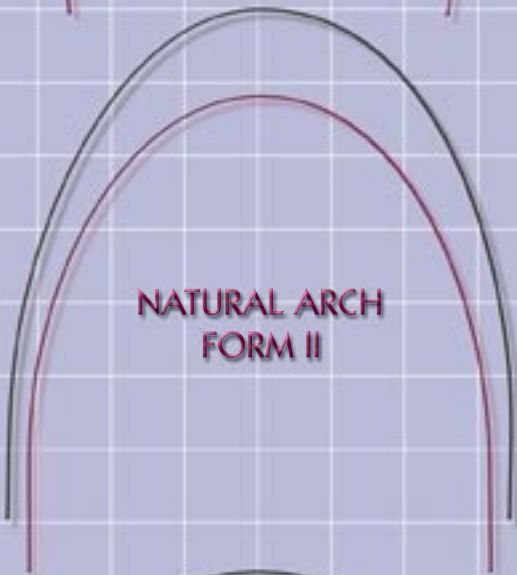
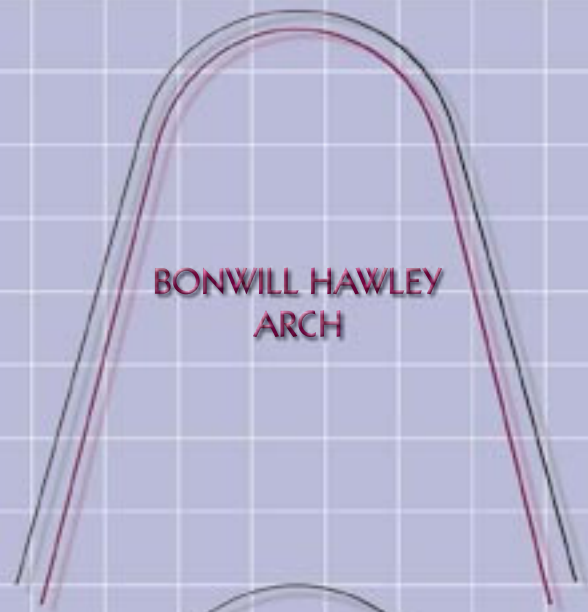
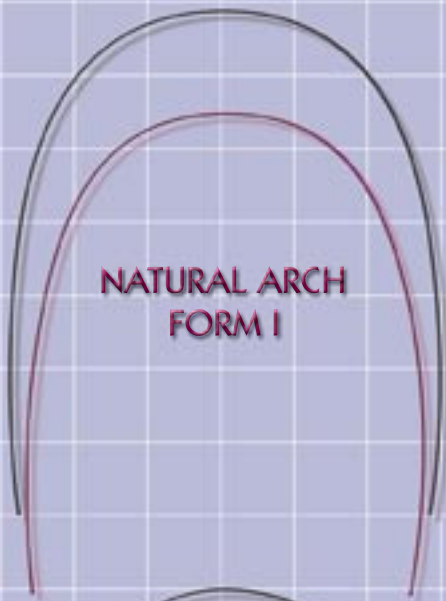


Wire





Arch wires shown close to actual size

Brackets don't move teeth. Neither do bands and tubes. Wires do. Choosing the right wire for the right situation can reduce treatment time, minimize chair time, maximize patient comfort, and produce better results. American Orthodontics offers a wide variety of wire types, arch forms, sizes, and force values, allowing you the opportunity to choose the best wires to fulfill all your treatment goals.

Natural Arch Form I

Well suited for pre-adjusted appliances with programmed In/Out relationships, Form I can be used throughout treatment with little or no manipulation. Its moderately expanded anterior segment provides a slight over correction to allow for settling after removal. It is long enough to accommodate the vast majority of patients with sufficient room for tie-back bends. Each arch has distinct and permanent upper or lower midline identification markings.

Available in: Heat Activated, Flexus Heat Activated, Force One, Force Two, Beta Titanium, Stainless Steel, Twist, Co-axial, and Straight Woven wire.

NOTE: Many of our arch wires are available in other sizes and forms on a special order basis. Please contact your sales representative for quantity requirements and pricing.

Natural Arch Form II

Form II is narrower than Form I. It is most suitable for patients with narrow facial dimensions or restricted oral cavities. Ideal for use with modified pre-adjusted appliances, where low profile brackets are used, and/or when brackets are placed more gingivally. Upper and lower arches are clearly identified with permanent midline markings.

Available in: Heat Activated, Force One, and Stainless Steel wire.

Individually packaged arch wires add to the clean, clinical environment of the orthodontic office. Arch wires are easily removed from the single use packaging even with gloves.

Natural Arch Form III

Form III is slightly narrower than Form I in the anterior region, yet is well suited for preadjusted appliances. Due to the gentle curve of the arch form in the anterior segment, Form III has become popular internationally and is ideal for single-wing bracket systems as well as self ligating bracket systems where low friction is critical to appliance performance. Upper and lower arches are clearly identified with permanent midline markings.

Available in: Heat Activated, Flexus Heat Activated, Force One, Beta Titanium, and Stainless Steel wire.

Bonwill Hawley Arch

This classic arch form, sometimes referred to as a "Standard" form, incorporates only general arch symmetry. Its use is limited to wire that can be re-shaped and contoured. It has sufficient length to allow for a moderate number of loops and adjustments. Midlines are clearly marked and specific upper and lower arches are available in some wire categories.

Available in: Stainless Steel, Gold Tone™, Chromium-Cobalt Multiphase Blue, and Twist wire.

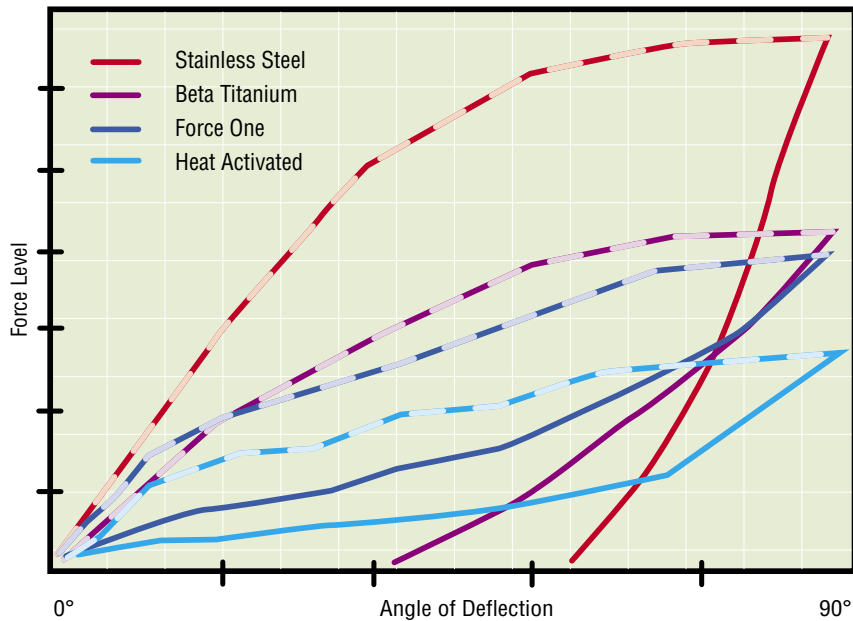
Brader Arch

This composite (upper/lower) arch was designed around the geometry of natural dental arch forms. It is available in six sizes, from 48 mm to 68 mm, which refers to molar to molar width. The proper size is computed by using a template with the patient's models. Midline identification marks are permanently etched.

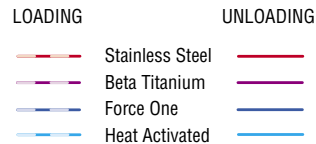
Available in: Stainless Steel wire.

Packaged in boxes holding 35 arch wires each, individually packaged arch wires are available in Heat Activated Memory wire, Force One Memory wire, and Stainless Steel wire. Special requests for individually packaged arch wire are welcome. Contact your American Orthodontics sales representative for details.





Selecting the right wire depends upon two key components: force and deflection. The force that transfers energy from the wire to the tooth is the “unloading force”. The “loading force” is merely the effort required to place the wire in the slot. Memory wire maintains its arch form as it is deflected, allowing for lighter, more comfortable forces to act upon the teeth as it gently returns to its original shape.



TIPS & TRICKS

Here's an easy and economical solution when seating heat activated wire with rotated or misaligned teeth: insert the wire into the buccal tubes at room temperature. Using IC-Tip Freeze Spray (see page 200) or a cotton swab that has been moistened and then frozen, chill the necessary wire sections with the swab, engage the chilled wire in appropriate brackets and secure with ligatures.

Terminology

Titanium Memory Wire

Loading force: Force required to deflect or load arch wire into the slot.

Unloading force: Working or rebounding force that moves teeth as the wire is returning to its original form.

Transition force: The difference between loading and unloading forces.

Martensitic state: Cold or softest state of titanium wire. “Martensitic” or thermal arches are in this condition at room temperature.

Austenitic state: Stiffest, most resilient state of titanium wire. “Austenitic” arches are in this state at room temperature.

Transformation: The change from Martensitic to Austenitic state, generally induced by temperature increases.

Superelastic: Highly resistant to permanent deformation and able to maintain relatively constant forces during rebound.

Shape Memory: The ability of a wire to remember its original shape, even after being deformed.

Heat Activated Titanium Memory Wire

A Martensitic wire, Heat Activated Titanium Memory wire exhibits excellent shape memory and superelastic characteristics, making it an ideal initial arch wire. It transforms to its Austenitic state at 35° C, delivering a very gentle continuous force. Because it is soft and pliable at room temperature, it can be easily engaged to even the most severely misaligned teeth. Larger round or even rectangular arch wires can be utilized much earlier in treatment, and it is ideal for hypersensitive patients, or where anchorage is a major concern.

Reference page 132 when ordering for correct arch form



Inches	mm	Natural Arch		
		Form I	Form II	Form III
Round				
Upper				
.014	0.36	857-924 X	857-960 X	857-960I X
.016	0.41	857-926 X	857-961 X	857-961I X
.018	0.46	857-928 X	857-962 X	857-962I X
Lower				
.014	0.36	857-934 X	857-970 X	857-970I X
.016	0.41	857-936 X	857-971 X	857-971I X
.018	0.46	857-938 X	857-972 X	857-972I X
Rectangular				
Upper				
.014 x .025	0.36 x 0.64	857-948		857-985I X
.016 x .016	0.41 x 0.41	857-941 X	857-980 X	857-980I X
.016 x .022	0.41 x 0.56	857-942 X	857-981 X	857-981I X
.016 x .025	0.41 x 0.64	857-945 X		857-986I X
.017 x .025	0.43 x 0.64	857-943 X	857-983 X	857-983I X
.0175 x .0175	0.44 x 0.44	857-947 X	857-982 X	857-982I X
.018 x .025	0.46 x 0.64	857-946 X		
.019 x .025	0.48 x 0.64	857-944 X	857-984 X	857-984I X
.021 x .025	0.53 x 0.64	857-949 X		857-987I X
Lower				
.014 x .025	0.36 x 0.64	857-958		857-995I X
.016 x .016	0.41 x 0.41	857-951 X	857-990 X	857-990I X
.016 x .022	0.41 x 0.56	857-952 X	857-991 X	857-991I X
.016 x .025	0.41 x 0.64	857-955 X		857-996I X
.017 x .025	0.43 x 0.64	857-953 X	857-993 X	857-993I X
.0175 x .0175	0.44 x 0.44	857-957 X	857-992 X	857-992I X
.018 x .025	0.46 x 0.64	857-956 X		
.019 x .025	0.48 x 0.64	857-954 X	857-994 X	857-994I X
.021 x .025	0.53 x 0.64	857-959 X		857-997I X

Add "X" to part number for individually packaged arch wires

Heat Activated Memory arch wires are packaged:

- 10 arch wires per box
- 35 individually packaged arch wires per box

Flexus Heat Activated Titanium Memory Wire

Also a Martensitic wire, Flexus HA exhibits excellent shape memory and superelastic characteristics. It transforms to its Austenitic state at 26°C, giving Flexus a gentle, yet slightly higher force when compared to traditional heat activated wire. Flexus is ideal when traditional 35° heat activated wire does not exhibit a sufficient force level such as with patients that have high cuspids or severely rotated lower anteriors.

Reference page 132 when ordering for correct arch form



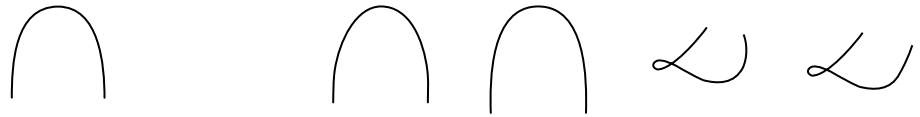
Inches	mm	Natural Arch	
		Form I	Form III
Round			
Upper			
.014	0.36	858-504	858-504I
.016	0.41	858-506	858-506I
.018	0.46	858-508	858-508I
Lower			
.014	0.36	858-514	858-514I
.016	0.41	858-516	858-516I
.018	0.46	858-518	858-518I
Rectangular			
Upper			
.016 x .016	0.41 x 0.41	858-540	858-540I
.016 x .022	0.41 x 0.56	858-541	858-541I
.016 x .025	0.41 x 0.64	858-542	858-542I
.017 x .025	0.43 x 0.64	858-544	858-544I
.0175 x .0175	0.44 x 0.44	858-543	858-543I
.018 x .025	0.46 x 0.64	858-545	858-545I
.019 x .025	0.48 x 0.64	858-546	858-546I
.020 x .020	0.50 x 0.50	858-547	858-547I
.021 x .025	0.53 x 0.64	858-548	858-548I
Lower			
.016 x .016	0.41 x 0.41	858-550	858-550I
.016 x .022	0.41 x 0.56	858-551	858-551I
.016 x .025	0.41 x 0.64	858-552	858-552I
.017 x .025	0.43 x 0.64	858-554	858-554I
.0175 x .0175	0.44 x 0.44	858-553	858-553I
.018 x .025	0.46 x 0.64	858-555	858-555I
.019 x .025	0.48 x 0.64	858-556	858-556I
.020 x .020	0.50 x 0.50	858-557	858-557I
.021 x .025	0.53 x 0.64	858-558	858-558I



Force One Titanium Memory Wire

Force I is our most commonly used nickel titanium arch wire. It has excellent superelasticity and delivers a continuous light-medium force. It is an excellent choice for all phases of treatment except finishing. Fully austenitic at room temperature, Force I exhibits superior resistance to permanent deformation, is gentle to patients, and is powerful enough to level and align the most challenging cases.

Reference page 132 when ordering for correct arch form



Inches	mm	Natural Arch						Reverse Curve	Reverse Curve	
		Form I	Form I	Form I	Form II	Form III	Form III			
Round										
Upper			Dimpled	Gold Coated				Dimpled		Straight Leg
.012	0.30	857-502 X	857-573		857-702 X	857-702I X				
.014	0.36	857-504 X	857-574	857-754	857-704 X	857-704I X	857-774I	857-604		
.016	0.41	857-506 X	857-576	857-556	857-706 X	857-706I X	857-776I	857-606	857-756	
.018	0.46	857-508 X	857-578	857-558	857-708 X	857-708I X	857-778I	857-608	857-758	
.020	0.51	857-510 X			857-710 X	857-710I X	857-780I			
Lower										
.012	0.30	857-512 X	857-583		857-712 X	857-712I X				
.014	0.36	857-514 X	857-584	857-764	857-714 X	857-714I X	857-784I	857-614		
.016	0.41	857-516 X	857-586	857-566	857-716 X	857-716I X	857-786I	857-616	857-766	
.018	0.46	857-518 X	857-588	857-568	857-718 X	857-718I X	857-788I	857-618	857-768	
.020	0.51	857-520 X			857-720 X	857-720I X	857-790I			
Rectangular										
Upper										
.014 x .018	0.36 x 0.46	857-539								
.016 x .016	0.41 x 0.41	857-540 X		857-751	857-731 X	857-731I X				
.016 x .022	0.41 x 0.56	857-541 X		857-559	857-732 X	857-732I X		857-610	857-771	
.017 x .025	0.43 x 0.64	857-537 X			857-733 X	857-733I X		857-611	857-772	
.018 x .018	0.46 x 0.46	857-545 X			857-734 X					
.018 x .025	0.46 x 0.64	857-542 X		857-557	857-735 X	857-735I X				
.019 x .025	0.48 x 0.64	857-543 X			857-736 X	857-736I X		857-612		
.021 x .025	0.53 x 0.64	857-544 X								
Lower										
.014 x .018	0.36 x 0.46	857-549								
.016 x .016	0.41 x 0.41	857-550 X		857-761	857-741 X	857-741I X				
.016 x .022	0.41 x 0.56	857-551 X		857-569	857-742 X	857-742I X		857-620	857-781	
.017 x .025	0.43 x 0.64	857-547 X			857-743 X	857-743I X		857-621	857-782	
.018 x .018	0.46 x 0.46	857-555 X			857-744 X					
.018 x .025	0.46 x 0.64	857-552 X		857-567	857-745 X	857-745I X				
.019 x .025	0.48 x 0.64	857-553 X			857-746 X	857-746I X		857-622		
.021 x .025	0.53 x 0.64	857-554 X								

Add "X" to part number for individually packaged arch wires

Force One Memory arch wires are packaged:

- 10 arch wires per box
- 35 individually packaged arch wires per box

Force One Titanium Memory Wire Options

Dimpled (Permanent Centerline)

The distinct upper lip from the buccal cingulum bends. As an additional benefit, the dimple serves as a permanent midline reference mark.

Gold Coated

Coated with 24 karat gold to help you meet the needs of patients who prefer aesthetic appliances.

“RCS” Reverse Curve of Spee

Our reverse curve design is caused by closing chain, thus minimizing time-consuming arch wire adjustments during this phase of treatment.

“RCS” Reverse Curve of Spee - Straight Leg

This modified reverse curve is straight in order to minimize excess distal-lingual rotation of molars. Additionally, the anterior segment has been widened slightly to minimize cuspid-to-cuspid constriction. It's an excellent choice when molar tip-back bends are required to provide additional anchorage.

Straight Length - 7 Inches / 17.5 cm

These 7 inch (17.5 cm) wires require considerable over-bending to achieve the desired form.

.016 x .022 857-641
(0.41 x 0.56 mm)

10 pieces per package

Spools - 15 Feet

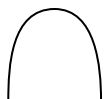
Superelastic Force I nickel titanium

.012 / 0.30 mm 857-502C
.014 / 0.36 mm 857-504C
.016 / 0.41 mm 857-506C
.018 / 0.46 mm 857-508C

Force Two Titanium Memory Wire

Fully austenitic at room temperature, Force II delivers a heavier force than Force I, although still well below the forces generated by stainless steel. It is an excellent choice when bends are required in the arch wire. The additional stiffness makes it suitable as a retraction arch. It is generally used in beginning to middle treatment stages. Excellent for stubborn rotations.

Reference page 132 when ordering for correct arch form



Natural Arch
Form I

Inches	mm	
Round		
Upper		
.014	0.36	857-524
.016	0.41	857-526
.018	0.46	857-528
.020	0.51	857-580
Lower		
.014	0.36	857-534
.016	0.41	857-536
.018	0.46	857-538
.020	0.51	857-590
Rectangular		
Upper		
.016 x .016	0.41 x 0.41	857-560
.016 x .022	0.41 x 0.56	857-561
.017 x .025	0.43 x 0.64	857-562
Lower		
.016 x .016	0.41 x 0.41	857-570
.016 x .022	0.41 x 0.56	857-571
.017 x .025	0.43 x 0.64	857-572

Force II arch wires are packaged 10 arch wires per box

B-Ti Beta Titanium Wire



With its moderate forces, superior range of activation, and excellent formability, B-ti arch wires can be used with great confidence in all stages of treatment. During the initial stages of treatment it is effective in aligning and unraveling teeth, correcting rotations, and making adjustments in arch form. During intermediate stages it provides early torque control with moderate forces and accommodates various methods of retraction and space closure. In the final stages of treatment fine detailing can be easily achieved because of its superior formability and modest stiffness.

These arches feature extra length to facilitate multiple loops and bends while preserving adequate arch wire length. Straight posterior segments prevent excessive molar rotation.

Reference page 132 when ordering for correct arch form



Natural Arch
Form I Natural Arch
Form III

Inches	mm		
Round			
Upper			
.016	0.41	857-646	857-646I
.018	0.46	857-648	857-648I
Lower			
.016	0.41	857-656	857-656I
.018	0.46	857-658	857-658I
Rectangular			
Upper			
.016 x .022	0.41 x 0.56	857-671	857-671I
.017 x .025	0.43 x 0.64	857-672	857-672I
.0175 x .0175	0.44 x 0.44	857-675	857-675I
.019 x .025	0.48 x 0.64	857-674	857-674I
.021 x .021	0.53 x 0.53	857-676	857-676I
.021 x .025	0.53 x 0.64	857-677	857-677I
Lower			
.016 x .022	0.41 x 0.56	857-681	857-681I
.017 x .025	0.43 x 0.64	857-682	857-682I
.0175 x .0175	0.44 x 0.44	857-685	857-685I
.019 x .025	0.48 x 0.64	857-684	857-684I
.021 x .021	0.53 x 0.53	857-686	857-686I
.021 x .025	0.53 x 0.64	857-687	857-687I

Beta titanium arch wires are packaged 10 arch wires per box

B-Ti Straight Length 14 Inches / 35.56 cm

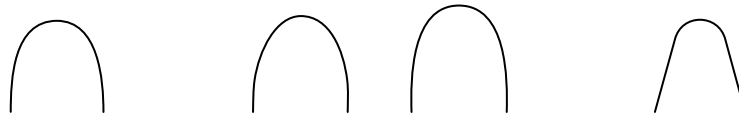
.032 (0.81 mm) 857-692

.036 (0.91 mm) 857-696

10 pieces per package

Stainless Steel Wire

Reference page 132 when ordering for correct arch form



Inches	mm	Natural Arch				Bonwill Hawley	
		Form I	Form I	Form II	Form III		
Round							
Upper		Gold Coated					Gold Tone
.012	0.30	853-232	X				853-312
.014	0.36	853-234	X		853-334	X	853-314
.016	0.41	853-236	X	853-276	853-336	X	853-316
.018	0.46	853-238	X	853-278	853-338	X	853-318
.020	0.51	853-240	X		853-340	X	853-320
Lower							
.012	0.30	853-242	X				853-412
.014	0.36	853-244	X		853-344	X	853-414
.016	0.41	853-246	X	853-286	853-346	X	853-416
.018	0.46	853-248	X	853-288	853-348	X	853-418
.020	0.51	853-250	X		853-350	X	853-420
Rectangular							
Upper							
.016 x .016	0.41 x 0.41	853-200	X	853-255	853-371	X	853-701
.016 x .022	0.41 x 0.56	853-201	X	853-256	853-372	X	853-702
.017 x .017	0.43 x 0.43						853-704
.017 x .022	0.43 x 0.56						853-705
.017 x .025	0.43 x 0.64	853-204	X	853-257	853-373	X	853-706
.018 x .018	0.46 x 0.46	853-209			853-374	X	
.018 x .022	0.46 x 0.56	853-205	X				853-708
.018 x .025	0.46 x 0.64	853-206	X	853-258	853-375	X	853-709
.019 x .025	0.48 x 0.64	853-207	X		853-376	X	853-711
.021 x .025	0.53 x 0.64	853-208	X		853-377	X	853-714
Lower							
.013 x .015	0.33 x 0.38	853-222	X				
.014 x .018	0.36 x 0.46						853-738
.015 x .020	0.38 x 0.51						853-740
.016 x .016	0.41 x 0.41	853-210	X	853-265	853-381	X	853-721
.016 x .022	0.41 x 0.56	853-221	X	853-266	853-382	X	853-722
.017 x .017	0.43 x 0.43						853-724
.017 x .022	0.43 x 0.56						853-725
.017 x .025	0.43 x 0.64	853-224	X	853-267	853-383	X	853-726
.018 x .018	0.46 x 0.46	853-229			853-384	X	
.018 x .022	0.46 x 0.56	853-225	X				853-728
.018 x .025	0.46 x 0.64	853-226	X	853-268	853-385	X	853-729
.019 x .025	0.48 x 0.64	853-227	X		853-386	X	853-731
.021 x .025	0.53 x 0.64	853-228	X		853-387	X	853-734

Add 'X' to part number for individually packaged arch wires

Stainless steel arch wires are packaged:

- 10 arch wires per box (rectangular and gold coated)
- 50 arch wires per box (round)
- 100 arch wires per box (Bonwill Hawley round gold tone)
- 35 individually packaged arch wires per box



TO ORDER: 800.558.7687 / 920.457.5051

Stainless Steel Wire Options

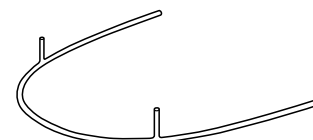
American Orthodontics Stainless Steel arches are made from the highest quality vacuum-remelted 304V stainless steel alloy. This ensures a pure, inclusion-free arch wire, with superior tensile strength and accurate tolerances. Strict corner-radius controls ensure optimal wire-to-bracket interaction. Wire torque is vigorously controlled, to prevent unwanted vertical discrepancies. All arches are carefully stress relieved and polished to reduce breakage and excess friction.

In addition to our standard stainless steel arches, American Orthodontics offers a unique Gold Tone stainless steel wire in the Bonwill Hawley arch form. These arches go through a special high temperature heat treatment. The bends are required.

Gold Coated

Plated with 24 karat gold, these arch wires blend seamlessly with "Forever Gold" metal brackets to produce a rich, "jewel like" appearance - with little compromise in function.

Posted Arches



Malleable .032 diameter posts are securely soldered to the main arch wire to provide a "sure grip" purchase point for force modules, auxiliaries, and high-pull J-hook headgear. The generous 8.3 mm length allows for great flexibility in forming various hook configurations. Simply measure the distance from the distal of one cuspid to the distal of the other cuspid to determine the proper arch size. Universal upper and lower arch forms reduce the need for excess inventory.

	.018 (0.46 mm)	.018 x .025 (0.46 x 0.64 mm)
20 mm	860-399	860-500
22 mm	860-400	860-501
24 mm	860-401	860-502
26 mm	860-402	860-503
28 mm	860-403	860-504
30 mm	860-404	860-505
32 mm	860-405	860-506
34 mm	860-406	860-507
36 mm	860-407	860-508
38 mm	860-408	860-509
40 mm	860-409	860-510
42 mm	860-410	860-511

10 pieces per package

Brader Arch Stainless Steel Wire

This unique upper/lower compo molar to molar width. The preformed round Brader arch has double spring temper.



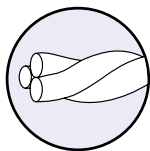
Inches	mm	Brader Arch					
		48mm	52 mm	56 mm	60 mm	64 mm	68 mm
Round							
.016	0.41	850-348	850-352	850-356	850-360	850-364	850-368
.018	0.46	850-448	850-452	850-456	850-460	850-464	850-468
Rectangular							
.016 x .016	0.41 x 0.41	851-248	851-252	851-256	851-260		
.016 x .022	0.41 x 0.56	851-348	851-352	851-356	851-360	851-364	851-368
.017 x .025	0.43 x 0.64	851-448	851-452	851-456	851-460	851-464	851-468
.018 x .025	0.46 x 0.64	851-548	851-552	851-556	851-560	851-564	851-568
.019 x .025	0.48 x 0.64	861-648	861-652	861-656	861-660	861-664	861-668

Brader arch wires are packaged:

- 50 arch wires per package (round)
- 10 arch wires per package (rectangular)

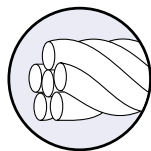
Multi-Strand Stainless Steel Wire

Multi-strand stainless steel wire provides greater flexibility and resistance to fracture than equivalent single strand wire. American Orthodontics offers an excellent selection of multi-strand wire in a variety of arch forms.



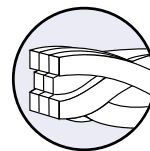
Twist

A triple-stranded wire, with high springback characteristics and a superior range of deflection. It can be easily formed and will not fray or unravel when cut. Excellent for early treatment stages.



Co-Ax

A six strand wire that can be flexed to a high degree, without taking a permanent set. It delivers a gentle, constant force making it ideal for leveling. It will not fray or unravel when cut. It is tightly wound to provide a smooth surface finish.



Streight™ Woven

An eight-stranded rectangular wire with high resiliency and resistance to deformation. It is less stiff than single strand stainless steel and is useful as a “settling” arch in the finishing stage of treatment.

Reference page 132 when ordering for correct arch form

		Twist			Co-Ax			Streight
		Natural Arch Form I	Bonwill Hawley	Straight*	Natural Arch Form I	Straight*	Spool*	Natural Arch Form I
Inches	mm							
Round								
Upper/Lower								
.015	0.38	857-215N	857-215	857-315	857-415	857-815	857-915	
.0175	0.44	857-217N	857-217	857-317	857-417	857-817	857-917	
.0195	0.49	857-219N	857-219	857-319	857-419	857-819	857-919	
.0215	0.55	857-221N	857-221	857-321	857-421	857-821	857-921	
Rectangular								
Upper/Lower								
.016 x .016	0.41 x 0.41		857-232					857-901
.016 x .022	0.41 x 0.56		857-234					857-902
.017 x .025	0.43 x 0.64		857-236					857-903
.018 x .022	0.46 x 0.56		857-235					
.018 x .025	0.46 x 0.64		857-237					857-904
.019 x .025	0.48 x 0.64							857-905
.021 x .025	0.53 x 0.64							857-907

Multi-strand arch wires are packaged 10 arch wires per package

*Twist Straight length is 15" or 38.10 cm

*Co-Ax Straight length is 14" or 35.56 cm

*Co-Ax Spool length is 30" or 76.2 cm

Straight Length Stainless Steel Wire

Standard Straight Lengths

Inches mm 14"
(35.56 cm)

Round

.008	0.20	856-608
.012	0.30	856-612
.014	0.36	856-614
.015	0.38	856-615
.016	0.41	856-616
.017	0.43	856-617
.018	0.46	856-618
.020	0.51	856-620
.022	0.56	856-622
.024	0.61	856-624
.025	0.64	856-625
.026	0.66	856-626
.028	0.71	856-628
.030	0.76	856-630
.032	0.81	856-632
.036	0.91	856-636
.040	1.02	856-640
.045	1.14	856-645
.051	1.30	856-651
.055	1.40	856-655

10 pieces per package

Rectangular

.016 x .016	0.41 x 0.41	856-001
.016 x .022	0.41 x 0.56	856-002
.017 x .017	0.43 x 0.43	856-004
.017 x .022	0.43 x 0.56	856-005
.017 x .025	0.43 x 0.64	856-006
.018 x .022	0.46 x 0.56	856-008
.018 x .025	0.46 x 0.64	856-009
.019 x .025	0.48 x 0.64	856-011
.021 x .025	0.53 x 0.64	856-014
.0215 x .028	0.55 x 0.71	856-015

10 pieces per package

Gold Tone Straight Lengths

Inches mm 14"
(35.56 cm)

Round

.012	0.30	857-012
.014	0.36	857-014
.016	0.41	857-016
.018	0.46	857-018
.020	0.51	857-020

25 pieces per package

Rectangular

.016 x .016	0.41 x 0.41	856-021
.016 x .022	0.41 x 0.56	856-022
.017 x .017	0.43 x 0.43	856-024
.017 x .022	0.43 x 0.56	856-025
.017 x .025	0.43 x 0.64	856-026
.018 x .022	0.46 x 0.56	856-028
.018 x .025	0.46 x 0.64	856-029
.019 x .025	0.48 x 0.64	856-031
.021 x .025	0.53 x 0.64	856-034
.0215 x .028	0.55 x 0.71	856-035

10 pieces per package



Multiphase Blue Chromium Cobalt Wire

A unique chromium cobalt alloy with superior physical properties, this wire is ideal for a variety of orthodontic applications. More malleable than stainless steel, it can be bent and manipulated easily, without the risk of fracture. It can be heat treated in a variety of ways to elevate its spring/tensile characteristics for greater force application. It is non-magnetic and corrosion resistant. Additionally, metals can be welded to it, at low temperature, and can be soldered without annealing. It will also accept electrolytic polishing.



**Bonwill
Hawley**

Inches	mm	
Rectangular		
Upper		
.016 x .016	0.41 x 0.41	854-801
.016 x .022	0.41 x 0.56	854-802
.017 x .022	0.43 x 0.56	854-805
.017 x .025	0.43 x 0.64	854-806
.018 x .022	0.46 x 0.56	854-808
.018 x .025	0.46 x 0.64	854-809
.021 x .025	0.53 x 0.64	854-814
Lower		
.016 x .016	0.41 x 0.41	854-821
.016 x .022	0.41 x 0.56	854-822
.017 x .022	0.43 x 0.56	854-825
.017 x .025	0.43 x 0.64	854-826
.018 x .022	0.46 x 0.56	854-828
.018 x .025	0.46 x 0.64	854-829
.021 x .025	0.53 x 0.64	854-834

Chromium Cobalt arch wires are packaged 10 arch wires per package

Multiphase Blue Straight Lengths

Inches	mm	
.016 x .016	0.41 x 0.41	854-701
.016 x .022	0.41 x 0.56	854-702
.017 x .017	0.43 x 0.43	854-704
.017 x .022	0.43 x 0.56	854-705
.017 x .025	0.43 x 0.64	854-706
.018 x .022	0.46 x 0.56	854-708
.018 x .025	0.46 x 0.64	854-709
.021 x .025	0.53 x 0.64	854-714

Multiphase Blue Retainer Wire

Inches	mm	
.028	0.71	854-728
.030	0.76	854-730
.032	0.81	854-732
.036	0.91	854-736
.040	1.02	854-740

*Straight length and Retainer wire length is 14" or 35.56 cm
10 pieces per package*

Nickel Titanium Springs

American Orthodontics offers the latest in nickel titanium spring technology with its open and close wound "adjustable force" titanium springs. They offer the same shape memory benefits of superelastic springs, with the added benefit of reduced inventories. With only two arbor sizes necessary, you can apply the precise force required for every situation. As these springs are extended (close wound) or compressed (open wound), forces are gradually increased, allowing a specific force to be generated at a given amount of extension or compression.

Open Coil Adjustable Force Springs

- Available in two different arbor sizes for full range of force values
- .010 diameter superelastic wire
- Easily slides over any arch wire

15' Spools ID

.030" / 0.76 mm	855-170C
.036" / 0.91 mm	855-171C



7" Straight Length ID

.030" / 0.76 mm	855-170
.036" / 0.91 mm	855-171

3 pieces per package

Closed Coil Adjustable Force Springs with Eyelet

- .010 diameter superelastic wire
- Eyelets allow for easy engagement to bracket hooks, tube hooks, or posted arch wire hooks
- We recommend that you place one eyelet over distal hook and then gently pull spring forward to engage anterior hook

Length	ID	
9 mm	.030" / 0.76 mm	855-180
12 mm	.030" / 0.76 mm	855-181



10 pieces of same size per package

Stainless Steel Springs

Spooled

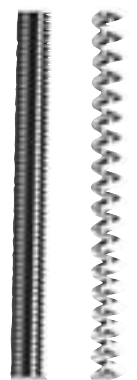
Diameter	ID	Close wound	Open wound
.009	.030" / 0.76 mm		855-142C
.009	.036" / 0.91 mm		855-144C
.010	.030" / 0.76 mm	854-651C	855-151C
.010	.040" / 1.01 mm	854-654C	855-154C

3' length spool / 90 cm

Straight

Diameter	ID	Close wound	Open wound
.008	.030" / 0.76 mm	854-632	855-132
.009	.030" / 0.76 mm	854-642	855-142
.009	.036" / 0.91 mm	854-644	855-144
.010	.030" / 0.76 mm	854-651	855-151
.010	.040" / 1.01 mm	854-654	855-154

2 pieces per package. 12" length / 30 cm each



Close Wound Open Wound



Stainless Steel Components

Retainer Wire

- Medium Hard Temper
- 14 Inches / 35.56 cm

.025 / 0.64 mm	856-825
.030 / 0.76 mm	856-830
.032 / 0.81 mm	856-832
.036 / 0.91 mm	856-836

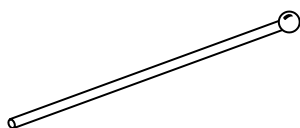
10 pieces per package

Ball Retainer Clasps

- Ball tip is double the wire diameter for better retention

Kit 855-255
50 assorted sizes

.6 mm / .024	855-256
.7 mm / .028	855-257
.8 mm / .032	855-258
1.0 mm / .040	855-259



10 pieces per package

Ligature Wire

Kobayashi Hook

- .012 or .014 ligature wire
- 100 pieces per package



.012	855-634
.014	855-635

Short Twist Kobayashi Hook

- 100 pieces per package

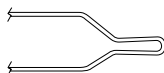
.012 Standard	855-638
.014 Standard	855-636
.014 Toothcolor	855-637



Preformed Ligature Wire

- Dead soft temper
- 1000 pieces per package

.009	855-620
.010	855-621
.011	855-622
.012	855-623

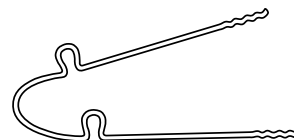


Wrap Around Hawley

Retainer Form

- Serrated end sections provide positive anchorage
- Omega style loops for easy adjustments
- .032 wire diameter

Small	855-237
Medium	855-236
Large	855-238



10 pieces per package

Wire

Short Twist Ligature Tie

- .010 diameter
- Dead soft temper
- Preformed and pre-trimmed



Twist end-1000 per pkg	855-628
Twist end gold coat-100 per pkg	855-629

Bulk Ligature Wire

- Dead soft temper
- High strength
- Sold in one or five pound spoos

	One lb	Five lb
.009	855-640	855-641
.010	855-651	855-652
.011	855-660	855-661
.012	855-670	855-671
.014	855-680	855-681

Auxiliaries and Other Wire Products

Monkey Hook

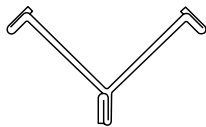
- .018 linkable S-shaped hook
- Directs impacted teeth into position
- Assists in the correction of severely rotated teeth
- May be hung from a bondable coil eyelet #292-186
- Can be used in multiples to create a chain
- 10 pieces per package



851-640

Auxiliary Light Torquing Arch

- .016 diameter wire
- "Long" provides lingual root torque to upper centrals and laterals
- "Short" provides lingual root torque to upper centrals
- 10 pieces per package



855-205 Long
855-206 Short

Power Pin

- Universal right or left hook for use with vertical slot brackets
- Eliminates the need for hooks on brackets
- Secure in bracket by bending tail away from the direction of force
- 50 pieces per package



201-140

Self Locking Separating Spring

- Provides a continuous gentle force
- .022 wire diameter for easy insertion
- 10 pieces per package



351-022C Medium
353-022C Long

Rotation Spring - 3 coil

- Efficiently rotates teeth using a vertically slotted bracket
- 10 pieces per package



855-190 Right
855-191 Left

Uprighting Spring with Safety Hold - 4 coil

- For uprighting teeth using a vertically slotted bracket
- 10 pieces per package

855-192 Right
855-193 Left

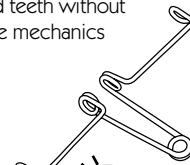


Kilroy Spring I - Lingual

For palatally impacted teeth

- Provides a constant vertical and lateral force
- Directs the eruption of impacted teeth without interrupting continuous arch wire mechanics
- Slips over rectangular arch wire
- .016 spring temper wire
- 10 pieces per package

855-262



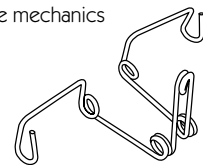
WHAT'S NEW!

Kilroy Spring II - Buccal

For buccally impacted teeth

- Provides a constant vertical and lateral force
- Directs the eruption of impacted teeth without interrupting continuous arch wire mechanics
- Slips over rectangular arch wire
- .016 spring temper wire
- 10 pieces per package

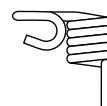
855-262A



Compliance Spring

- Reinforces cooperation with intermaxillary elastics
- When engaged with elastics, spring bends occlusally away from lips and exerts light labial root torquing pressure on crown of tooth
- .016 spring temper wire
- 10 pieces per package

855-263 Right
855-264 Left



Wire Holders



Natural Arch Holder

- 8" x 4" x 7/8" (20 cm x 10 cm x 2.5 cm)

851-834



Bonwill Hawley Arch Holder

- 8" x 4" x 7/8" (20 cm x 10 cm x 2.5 cm)

851-831



Individual Arch Wire Rack

- Holds individual arch wire patient pack boxes
- 8 7/8" x 7" x 4 1/2" (22.6 cm x 17.9 cm x 11.6 cm)

851-837