

Technical Information

Compound Bows - with the development of new fibers every year, string materials are changing. Lower stretch, minimal creep, and higher breaking strengths are available in many of our string materials.

Astro Flight- Our newest string material is Astro Flight. This material provides all the features in one material. It offers low elongation percentages, very minimal creep with an extremely high breaking strength. After extensive testing over the last few years, we have found this material to be an excellent choice for new traditional bows, those with reinforced limb tips, compound bows and crossbows. Pro staff shooters have found shots fired were very quiet, soft, and a significant reduction in hand shock. They have found this material to have minimal elongation and creep with excellent speeds. We feel Astro Flight will reduce or eliminate the need to pre-stretch. Astro Flight will revolutionize strings and cables in our industry.

Traditional Bows - Some of the new recurves and long bows with reinforced limb tips can use high modulus polyethylene string materials. Our recommended number of strands is dependent on what string diameter is desired. Some custom bowstring vendors are reporting that HMPE/Vectran containing materials like Xcel are receiving excellent reviews with traditional shooters. If your choice is an older traditional bow or if you are not sure if your limb tips are reinforced we always recommend using B-50 Dacron. Always check with your bows manufacturer before using any other materials.

Servings - We offer a variety of servings. Both end and center servings are available in a variety of diameters. We recommend using .019 for end servings and .022 to .026 for centers. For compound bows with smaller cam grooves a smaller diameter end serving is needed. For this application we recommend using our mini-serving, which is .015. Choosing an end serving can be determined by the correct fit in the wheel or cam groove. Proper nock fit can be used to gauge center serving diameters.

Crossbows - Crossbows have become a huge part of today's market. New materials have been developed and tested specifically for crossbows. Many of the newer crossbows are using low stretch, high strength string materials. Some manufacturers have used our new blends for strings and cables with great success.

Our D-75 has been and still is an excellent choice for crossbows. D-75 can be used on both strings and cable applications. Testing of the Astro Flight material is also proving to be a superior material for crossbows. Some manufacturers have found Ultra Cam to work extremely well for cables and yoke systems.

Depending on the manufacturers specifications, determining the number of strands and servings may vary. Many factors come into play: Proper fit into the trigger assembly, cam or wheel groove tolerances, and string push in the center of the arrow.

These are all very important criteria for proper string diameters. Strength and string life should also be contributing factors. Our Cam EZ and Liquid Lok are excellent products to achieve longer string life. Pre-stretching your strings and cables helps to shorten the break-in period. Brownell Recommends no more than 300 lbs. of pressure for pre-stretching. Strings and cables should be twisted. We recommend 1 twist for every 2 to 3 inches of length.

Brownell and Company, Inc. 2011 Catalog

SHOOT FOR THE STARS

Fluorescents Are Here



*Now Available in Astro Flight, Xcel,
and Fast Flight Plus.*

Brownell & Co. has been an American Tradition for 166 years. We are the Leader in the advancement of archery bowstring material development and fiber technology.

We are continuing to provide the best Quality, Pricing, and Service.

*Providing Over 50 Years Of Service To
The Archery Industry*



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Bowstring Material - Serving Ma

ASTRO FLIGHT

Next Generation String

- No creep
- 20% stronger
- Excellent Arrow Speeds
- Durable
- Soft Shot
- Performs like a combination material.
- Dia .014 - .015.
- 100% HMPE



XCEL

Unmatched stability and amazing speed in a combination material. Offering an extremely soft shot. 1/3 Vectran 2/3 HMPE. Diameter of .014 .



NEW!

FUSION SERVING

Fusion serving is 100% HMPE twisted serving with a proprietary coating. This process allows each wrap of serving to fuse together after application. Fusions unique texture promotes bonding which will drastically reduce serving separation. Fusion will be available in Mini and 1D. Brownell's R&D is continually working to develop and field test new products for the archery industry.

Black Only. Available in diameters of .015 and .019.



ULTRA CAM

Outstanding strength and durability the lowest creep factor available. Used by more pros than any other material. 56% Vectran 44% HMPE. Diameter .015.



See Color Chart for Bowstring Material Colors



D-75

Superior strength and durability offering great accuracy. 100% HMPE. Diameter .015.

Some of the Tri-colors from which you can choose. See the color chart. This unique process was developed by Brownell engineers to give your finished string an attractive collage of three colors.

FAST FLIGHT PLUS

Minimal creep and superior durability. 100% HMPE. Diameter .014 to .015.



LC LOOP MATERIAL

The LC Loop material is 100% HMPE. Diameter is .068. The stretch factor on the Low Creep loop is only 2% compared to 14% on most polyester loop materials. It comes in a 3 ft piece or a 100 ft spool. Colors are black, white, gray, and orange.



B-50

Abrasion resistant. Durable and consistent. The standard for traditional bows. Diameter .018.

STRING LOOP

Brownell's Nylon loop material. Camo comes in .078 diameter. The .083 diameter comes in black only. Both are available in 3 ft pieces or 100 ft spools.



CROWN

Strong, Slick and durable. Comes in three diameters: .018, .022, and .026. Comes in black, gray, or hunter green.

terial - Bowstring Accessories



DIAMONDBACK

Braided construction for superior grip and durability. Lies flat and stays put. Great with a loop. Four diameters: .030 in black and black/white .018, .022, .026 comes in black/white, black/gold, black/blue, black/red, and black/teal.



CABLE FIX

An ongoing problem with serving separation on the lower cam cable now has a solution. Cable Fix will take care of this problem when served over the separation. 100% HMPE



.026 BRAIDED FAST FLIGHT

Original braided center serving. Available in black & White and bonded black.

BULLWHIP SERVING

100% braided HMPE. This serving is suitable for end or center serving. Bonded to improve abrasion resistance. Durable, won't unravel and no separation. Available in black in 125 yard jig spoos. Diameter .014.



#4 TWISTED

Multifilament nylon end serving. Excellent for tying in peeps.. Diameter .021. Comes in black, white, red, green, blue, yellow, and brown.



BOWSTRING WAX

Brownell bowstring wax is formulated exclusively to be compatible with all bowstring materials. Increase the life of your string.



TRADITIONAL

Braided polyester for traditional bows. Diameter .018 Comes in black / white blend.

LIQUID LOK AND CAM EZ

Liquid Lok keeps the end and center serving in place if applied before serving. Cam Ez is applied over your end serving and works to reduce friction and increase durability. Kit includes .60 oz. of each.



CROSSBOW

Resin coated for durability. Diameter .036. Available in 37 yd Jig or 1000 ft. Comes in black and yellow



CARTEL SERVER

- Durable, lightweight construction
- Consistent tension
- Easy to change spoos (not included)



MINI

Small diameter of .015 for small groove cams and cable slides. High twist two strand 100% HMPE. Comes in 12 colors: black, hunter green, blue, red, white, teal, yellow, med brown, dark brown, gray, orange, and bronze.

#1 D Three ply high twist construction for a rounder strand which aids in the strands lying closer together. Offers lasting strength and durability. 100% HMPE, diameter .019. Comes in black, white, red, teal, med brown, dark brown, orange, blue, hunter green, yellow, and bronze.



ADJUSTABLE BOWSTRING JIG

Extends to 112 In. Two piece rail sections are 70 In and 42 In. Features a 90° locking knob handle, finger tip tightening, and easy to use to make your custom strings.



BOWFISHING LINE

Our bowfishing line offers a thin diameter with ultra strong line. 100% braided HMPE.

Available in:
200 - .036 dia. 100/300 /1100 ft
400 - .056 dia. 100/300/1100 ft
640 - .068 dia. 1000 ft spool

Brownell Bowstring Color Chart

	Astro	UltraCam	Xcel	D-75	B-50	FF Plus
Black	•	•	•	•	•	•
White	•	•	•	•	•	•
Red	•	•	•	•	•	•
Blue	•	•	•	•	•	•
Bronze	•	•	•	•	•	•
Brown					•	
Golden Yellow					•	
Bright Yellow	•	•	•	•	•	•
Teal					•	•
Gray	•	•	•			•
Hunter Green	•	•	•	•	•	•
Lime Green	•	•	•			
Medium Brown	•	•	•			•
Orange	•	•	•			•
Dark Brown	•	•	•	•		•
Hot Pink	•	•	•			•
Dark Purple	•					•
Cocobola	•	•	•		•	•
Baby Blue	•					•
Lime Light	•	•	•			
Natural Cedar	•	•	•		•	•
Brown/Yellow					•	
Fluorescents						
Fluorescent Green	•		•			•
Fluorescent Orange	•		•			•
Fluorescent Pink	•		•			•
Fluorescent Yellow	•		•			•
Tri-Colors						
Tan / Brown / Black			•			•
Ivory / Black / Hunter Green						•
Gold / Black / Red						•
Black / Gray / Blue			•			•
Red / White / Blue						•
Orange /Yellow /Dk Brown		•	•			•
Sand / Sage / Dark Brown	•	•	•		•	•
Cocobola / N Cedar / Black			•			•

Strand Recommendations	Astro Flight	Ultra Cam	16	
	<u>String</u>	<u>16</u>	<u>D -75</u>	<u>16</u>
	<u>Cable</u>	<u>18-20</u>	<u>Fast Flight Plus</u>	<u>8-20</u>
	<u>Xcel</u>	<u>20</u>	<u>B-50</u>	<u>16</u>

Brownell materials are currently being used by some of the leading crossbow manufacturers with excellent results. Brownell highly recommends consulting with your bow manufacturer before using any material for compound, traditional, and crossbows.

For any technical questions please contact us by phone 860-873-8625 or by email sharon@brownellco.com