

# COLUMBIA BASIN



## KNOT COMPANY



*Our Favorite  
ropes for halters,  
leads and reins.*

Rope halters, leads and reins are favored by many natural horse trainers. The interaction between the product design and type of rope used creates unique products. Many famous horse trainers have perfected their designs/rope choices to create products tailored to their training methods. This document is our attempt to share the insights/opinions we have developed while selling rope, creating rope tack, and working with trainers over the past twelve years. We hope sharing our insights will help take some of the mystery out of choosing the perfect rope to meet your needs.

*Sincerely, Columbia Basin Knot Company, LLC rope sales and home of the  
Knotty Girlz - creating quality rope products in the USA.*

### Diameter

Rope diameters used for tying halters typically vary between 3/16 inch to 5/16 inch in diameter. Diameters of 3/16 inch are often used underneath a bridle or for training. One of the more popular diameters used by many natural horse trainers is 1/4 inch. While 5/16 inch and 3/8 inch can be bulking on small horses, foals, weanlings, and yearlings, they can work well with larger horses. Commonly requested diameters for lead ropes range from 1/2 inch to 5/8 inch. Some trainers prefer the larger diameters for increased grip and added weight, although optimum size is also dependent on the size of the hand holding the rope.

### Hardness

For braided ropes, hardness is a term used to indicate the relative tightness or stiffness of a rope/rope cover. Splicing is easier with softer ropes. Harder or "stiffer" ropes contain more strands per inch or more carriers in the strands of the cover, making a tighter, more protective cover. Stiffer covers can also make it more difficult, if not impossible to splice a rope.

Two knot and four knot halters refer to the number of knots across the noseband of a halter. Stiff rope is often used when making four knot and two knot halters that hold their form. Some natural horse trainers feel a stiffer rope puts more pressure on the horse's nose, which can help train the horse to yield to pressure. Other trainers prefer softer "yacht" rope halters for a "gentler" contact with the horse. Soft halters are great for carrying in a pocket or saddle pack as they fold up nicely. We have designed a "firm" rope that falls between the stiff and soft rope choices.

### Strength and Weight

Rope strength depends on a rope's construction and type of fibers used. Tensile strength is a measure of a rope's breaking strength based on a large number of breaking force tests. A rope with a specification for tensile strength indicates it has been through the testing required to "specify" a breaking strength. Estimated or approximate tensile strengths are derived from calculations of theoretical strength based on a rope's construction and the fibers used. In general, polyester and nylon fibers have excellent strength, MFP good, and cotton poor.

Some ropes/rope fibers are heavier than others. For example, a double braid MFP rope will be lighter weight than a double braid polyester or nylon rope.

### Rope Construction

#### Double Braid

A double braid rope refers to a braided rope cover over a braided rope core. Basically, it is a rope over another rope. These ropes are often flexible and easy to handle. Most double braid ropes are spliceable. Double braid rope is often called yacht braid and can be made with combinations of fibers or the same fibers. To get a stiffer or firmer double braid rope, the cover can be braided tighter which increases its "hardness."

#### Braided Cover Parallel Core

When the core of the rope consists of one or more un-braided fibers running parallel to a braided "cover" the rope can be called a braided cover parallel core rope or cord. Halter cord uses this construction. Fibers used in the core range from inexpensive "filler" fibers to premium fibers. Parallel core ropes are not considered "spliceable."

#### Three Strand

A three strand laid rope is constructed of three strands, each with an identical structure and number of yarns. The strands are twisted or laid to make a rope that is easy to splice.

#### Hollow Braid

Also called single braid, these ropes are braided in a circular pattern using an even number of strands with half twisted clockwise and half counter-clockwise to interlock. Hollow braid results when the center void is large, creating a rope that is easy to splice.

### Rope Fibers

#### Polyester

Due to its strength, low stretch, excellent sunlight resistance, and excellent abrasion resistance properties, polyester is a preferred fiber for many natural horse trainers. **Spun Polyester** has a soft, wooly surface with a texture close to cotton but strength and wear of polyester.

#### Multifilament Polypropylene (MFP) and Polyolefin

These fibers are often used due to their price point. They have good strength, low stretch, and fair resistance to sunlight. They come in numerous colors and are lighter in weight than polyester or nylon.

#### Cotton

Although it is not as strong as other fibers, cotton has a soft feel and was one of the first fibers used in manufacturing horse rope products.

# CBKnot Premium Polyester Polyester fiber colors available by the spool\*\*



Colors available by the foot shown below\*\*

## Halter cords - Polyester

**CBKnot Stiff Polyester Halter Cord** Polyester cover/parallel polyester core **Stiffness\*: ●●●●● Splice rating\* = 0**

This rope holds its shape and is often used for stiffer 2-knot and 4-knot halters.

**3/16" HCP316WA-6TF** BK BE BG HG BL PK PR RD NO NG BKBE

Black 400' spool \$52.80 or \$0.18/ft  
Colors 400' spool \$69.85 or \$0.22/ft

Estimated average tensile strength 920lbs

**1/4" HCP14WA-8TF** BK BE BG HG BL PK PR RD NG BR WH NO CA BKWH BKBL BKBE

BK/WH 400' spool \$72.00 or \$0.22/ft  
Colors 400' spool \$80.00 or \$0.24/ft

Estimated average tensile strength 1500lbs

**CBKnot Firm Double Braid Polyester** Polyester cover/polyester core **Stiffness\*: ●●● Splice rating\* = 0**

**1/4" DBP14WA-12P** BK BL PR RD BUBE

Black 400' spool \$87.50 or \$0.27/ft  
Colors 400' spool \$94.50 or \$0.29/ft

Estimated average tensile strength 2031lbs

**CBKnot Double Braid Polyester** Polyester cover/polyester core **Stiffness\*: ●● Splice rating\* = 1**

**1/4" DBP14WA** BK BE HG BL PK PR RD NG NO BR BU YE CA WH BKBL BLM RDWH

BK/WH 400' spool \$87.50 or \$0.27/ft  
Colors 400' spool \$94.50 or \$0.29/ft

Estimated average tensile strength 2,031lbs

**5/16" DBP516WA** BK BE BL BU RD NG BR NA OD GY

BK/WH 600' spool \$156.42 or \$0.34/ft  
Colors 600' spool \$163.35 or \$0.35/ft

Estimated average tensile strength 3,010lbs

## Lead/Rein ropes - Double Braid Polyester

**CBKnot Double Braid Polyester** Polyester cover/polyester core **Splice rating\* = 2**

**3/8" DBP38WA** BK BL PR WH NG

BK/WH 600' spool \$177.21 or \$0.38/ft  
Colors 600' spool \$228.69 or \$0.50/ft

Estimated average tensile strength 4,800lbs

**1/2" DBP12WA** BK BL PK PR WH NG RD

BK/WH 600' spool \$284.13 or \$0.66/ft  
Colors 600' spool \$336.60 or \$0.78/ft

Estimated average tensile strength 7,850lbs

**9/16" DBP916WA** BK BU BE BG HG BL PK PR RD WH NG BR NO CA BKBE

BK/WH 400' spool \$241.80 or \$0.84/ft  
Colors 400' spool \$261.00 or \$0.97/ft

Estimated average tensile strength 9,500lbs

**5/8" DBP58WA** BK WH

WH 300' spool \$159.00 or \$0.80/ft  
BK 300' spool \$213.14 or \$0.99/ft  
Colors 300' spool \$243.00

Estimated average tensile strength 11,150lbs

# CBKnot Multifilament Polypropylene (MFP)



MFP fiber colors available by the spool\*\*

Colors available by the foot shown below\*\*

## Halter cords - MFP

**CBKnot Firm MFP Halter Cord** MFP cover/continuous filament core **Stiffness\*: ●●●● Splice rating\* = 0**  
 5/16" HCM516WA-24C 300' spools \$48.00 or \$0.19/ft



**CBKnot Double Braid MFP Over Polyester** MFP cover/polyester core **Stiffness\*: ●● Splice rating\* = 2**  
 5/16" DBM516WA 600' spool \$126.00 or \$0.28/ft



**CBKnot Double Braid MFP Over Polyester** MFP cover/polyester core **Stiffness\*: ●● Splice rating\* = 1**  
 1/4" DBM14WA 400' spool \$68.00 or \$0.22/ft



## Decorative Noseband cords - MFP

**CBKnot MFP Braiding Cord** MFP cover/textured core **Splice rating\* = 0**  
 1/8" BCM18WA 1000' spool \$49.85 or \$0.11/ft



## Lead/Rein ropes - Double Braid MFP over Polyester

**CBKnot Double Braid MFP over polyester** MFP cover/polyester core **Splice rating\* = 2**  
 5/8" DBM58WA 400' spool \$195.20 or \$0.70/ft



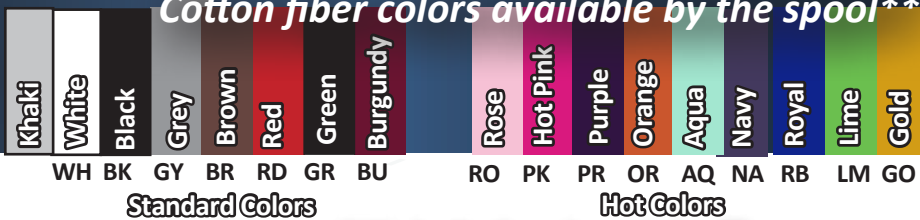
## Lead/Rein/Bull ropes - MFP Diamond Braid Strand

**Diamond Braid MFP over MFP** - Tightly braided MFP strand cover over braided strand MFP core, "Brazilian rope" **Splice rating\* = 0**  
 9/16" JE-TREMFP 300' spools \$185.00 or \$1.00/ft



## Cotton

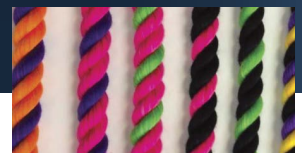
Cotton fiber colors available by the spool\*\*



Standard Colors

Hot Colors

Colors available by the foot shown below\*\*



Design Custom Combinations

## Lead/Rein/Bull ropes - 3-Strand Cotton

**3-Strand Cotton** Soft natural feel three strand twisted cotton rope **Splice rating\* = 2**  
 1/2" 3SC12HN Custom combinations online



White: 640' spool \$108.00 or \$0.27/ft  
 Std Colors: 640' spool \$126.00 or \$0.32/ft  
 Hot colors: 640' spool \$149.80 or \$0.39/ft  
 Custom: 640' spool \$149.80



# Samson and New England Ropes carried by CBKnot

## Halter cords

<b>1/4" Samson Halter Cord</b> braided polyester cover with a parallel polyester core			<b>Splice rating* = 0</b>
Colors available by the foot BK, BL, BE, PK, PR	<b>HCP14SM</b>	<b>Stiffness*: ●●●●</b>	300' spool \$103.29 or \$.39/ft
	Average tensile strength 1700 lbs		
<b>1/4" Samson Stable Braid</b> braided polyester cover with a braided polyester core			<b>Splice rating* = 1</b>
Colors available by the spool WHBL	<b>DBP-SM-STBR</b>	<b>Stiffness*: ●●</b>	600' spool \$175.65 or \$.40/ft
	Average tensile strength 2300 lbs		

## Lead/Rein ropes

<b>1/2" Samson EQ Braid -</b> braided polyester cover with a braided polyester core			<b>Splice rating* = 2</b>
Colors available by the foot BK, BL, PK, PR, BE, BEWH BKBL	<b>DBP12SM-EQ</b>		500' spool \$367.63 or \$1.05/ft
	Average tensile strength 8,300lbs		
<b>1/2" Samson Stable Braid -</b> braided polyester cover with a braided polyester core			<b>Splice rating* = 2</b>
Colors available by the foot WHBL	<b>DBP-SM-STBR</b>		600' spool \$476.8 or \$1.13/ft
	Average tensile strength 10,00lbs		
<b>1/2" New England Braided Safety Blue</b> tightly plied polyester cover with a blue polyolefin core (Treeline)			<b>Splice rating* = 0</b>
Colors available by the foot WH	<b>TLP12NE-SAFB</b>		600' spool \$521.24 or \$1.35/ft
	Average tensile strength 7,000lbs		

## Pack ropes

<b>New England Multiline II</b> braided polyester cover with a braided polyester core			<b>Splice rating* = 2</b>
Colors available by the foot White with orange tracer	<b>3SP-NE-MLII NE7300-SPOOL</b>		3/8" 600' spool \$160.16 1/2" 600' spool \$263.20 or \$.71/ft
	Average tensile strength 3/8" 3,500lbs. 1/2" 6,700lbs		

Ropes and cords labelled CBKnot are designed by Columbia Basin Knot Company, LLC and manufactured in the U.S.A for our equestrian customers.

Robyn Slate Doloughan, Columbia Basin Knot Company, LLC

\* Comparisons in this brochure are based on staff opinions and experience with these ropes. Stiffness rating - more circles means more stiff. Splice rating - 0 considered non-splicable to 2 considered readily splicable.

\*\* Printed colors are representative. For accurate color matching, check rope samples. Colors available by the foot may vary. Some colors may require a minimum purchase.

We recommend evaluating samples prior to purchase. A sample kit is available at [www.cbknot.com](http://www.cbknot.com) Contact us via email or phone for additional information.



Columbia Basin Knot Company is the parent company of the Knotty Girlz, creating products made from the ropes described in this brochure

[www.knottygirlz.com](http://www.knottygirlz.com)



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Prices subject to change