



# PowerLine Sports

## February 2010 US KiteBoarding Suggested Retail Price List

### **Q-PowerLine**

**Q-PowerLine** represents over 10 years of research and development to engineer the ultimate line specifically for High Powered Kite applications. The unique cored construction utilizes continuous linear strands of very high tenacity Spectra® fiber encased in an extremely tightly braided Spectra sheath.

The resulting line exhibits the ideal characteristics for all kiting applications:

- almost zero stretch means minimal length adjustments and incredible kite “feel” when flying,
- no sleeving required makes it easy to produce your own custom sets or adjust your current lines
- self-lubrication ensures minimal friction during line wraps,
- a round cross-section minimizes parasitic wind-drag increasing both the kites forward speed and response to pilot input,
- an extremely tight external braid prevents dirt from entering the braid greatly extending the life of the lines,
- a higher modulus (stiffness) than traditional lines almost totally eliminates any tendency for the line to tangle,
- specialized double coloration/coating process for vivid colors that do not easily transfer or rub off

Proprietary coating technology allows us to produce hi-visibility safety lines in fluorescent yellow and orange with even coatings that resist the tendency to fade and rub off. **Q-PowerLine** typically outlasts normal braided lines at least five times, and more importantly the superior quality of this line almost eliminates the line failures that strand flyers. Nobody likes to waste their play time, swimming or walking back and/or fixing and untangling lines.

**Q-PowerLine** is available in White, Yellow and Orange allowing the rider (if they so choose) to color code their lines. A common system is to use white lines in the middle (top or power lines), since it does not matter which is left and right and orange and yellow on either side (brake or steering lines).

600 lb lines are sold for standard Kiteboarding applications. 300 lb lines are also available for bottom lines on ram air kites and for land traction top lines when used with 200 lb bottom lines.

Unlike other KiteBoarding Lines all **Q-PowerLines** are very conservatively rated, providing the rider with a good safety margin and ensuring that **Q-PowerLine** will typically outlast standard KiteBoarding lines by a factor of at least 5.

### **Q-PowerLine Spools**

#### **152 Meter (500 ft) Spools:**

These bulk spools have been designed for use by either the KiteBoarder who prefers to make up his own single color lines or the shop that likes to make up custom lines for their customers. Since **Q-PowerLine** does not require sleeving and has very little stretch, it is relatively easy to quickly make up line sets. Loops are made on the ends of the lines utilizing a “Figure-8” knot. An added bonus of purchasing lines on the 152 m spools is economy. A bulk 292 kg (600 lb) x 152 m (500 ft) spool basically makes up a 4 line 30 meter set with enough line left over for extensions to increase their kites wind range. Or the spool can be used to make up a 4 line 25 meter set and have enough left over to make an additional spare pair of 25 meter lines.

#### **55 Meter (180 ft) Spools:**

These smaller spools are a cost effective alternative to the bulk 152 meter (500 ft) spools and allows the rider to make up a pair of 27 meter lines with minimal waste. By combining two different color spools the rider can easily make a 4 line color coded line set.

## ***Q-PowerLine Pricing***

<u>Test</u>	<u>Length</u>	<u>Catalogue #</u>			<u>Price</u>
		<u>White</u>	<u>Yellow</u>	<u>Orange</u>	
91 kg (200 lb) 0.8 - 0.9 mm	1000 ft, 305 m	26.30200.1000	26.30201.1000	26.30202.1000	\$260.00
136 kg (300 lb) 1.0 - 1.2 mm	1000 ft, 305 m	26.30300.1000	26.30301.1000	26.30302.1000	\$260.00
272 kg (600 lb) 1.6 - 1.7 mm	180 ft, 55 m	26.30600.0180	26.30601.0180	26.30602.0180	\$ 54.00
	500 ft, 152 m	26.30600.0500	26.30601.0500	26.30602.0500	\$130.00
454 kg (1000 lb) 2.0 - 2.1 mm	500 ft, 152 m	26.31000.0500	26.31001.0500	26.31002.0500	\$200.00

## ***Q-PowerLine Pro***

**Q-PowerLine Pro** represents the latest advancement in KiteSurfing line technology from **PowerLine Sports**. The latest generation of **Q-PowerLine Pro** utilizes a new thinner, stronger Spectra fiber to further improve on the time-proven, superior features of **Q-PowerLine**. **Q-PowerLine Pro** is thinner than standard **Q-PowerLine** for even lower drag, more resistant to stretch with stronger impact strength, a smoother “hand” makes it much more “kink” resistant, and it features a new surface treatment for a slipperier finish allowing more wraps without binding.

<u>Test</u>	<u>Length</u>	<u>Catalogue #</u>			<u>Price</u>
		<u>White</u>	<u>Yellow</u>	<u>Orange</u>	
272 kg (600 lb) 1.4 - 1.5 mm	180 ft, 55 m	27.30600.0180	27.30601.0180	27.30602.0180	\$ 74.00
	500 ft, 152 m	26.30600.0500	26.30601.0500	26.30602.0500	\$180.00

## ***Q-Line Plus***

**Q-Line Plus** is a very high quality braided line. Specifically designed for the cost conscious KiteBoarder that prefers to use a braided line. Although not as long lasting as **Q-PowerLine**, this is the best braided line on the market and will out perform and outlast the traditional braided lines supplied by the kite manufacturers. This line is manufactured to exacting tolerances on our precision 8 carrier braiding machines with a braid angle optimized for the best combination of strength and tangle resistance possible for a braided line.

Manufactured from pure Spectra fibers, **Q-Line Plus** is put through an 8 stage precision stretching process at our factory, that repeatedly brings the line close to its breaking point. This ensures that the line has been evenly pre-stretched for maximum performance and minimum line adjustment.

The tight braid ensures a minimum line diameter for reduced drag and the maximum possible resistance to dirt pickup. The high braid angle ensures that the line has the maximum acceptable modulus for minimal tangling.

The last step in maximizing the line performance is to topcoat the line with our proprietary polyurethane coating, sealing the line against dirt and water, increasing abrasion resistance to maximize line life and minimizing any color transfer from the line. The polyurethane coating also prevents the braid from relaxing like normal line when tension is removed, further increasing the lines resistance to picking up dirt, so there is no wear problem caused by dirt trapped in the braid.

**Q-Line Plus** is available in White, Hi-Vis Yellow, Hi-Vis Orange, Blue and Red for line color-coding.

<u>Test</u>	<u>Length</u>	<u>Catalogue #</u>			<u>Price</u>
		<u>White</u>	<u>Yellow</u>	<u>Orange</u>	
272 kg (600 lb) 1.3 - 1.4 mm	500 ft, 152 m	23.21600.0500	23.21601.0500	23.21602.0500	\$100.00

## ***Q-LeaderLine***

**Q-LeaderLine** utilizes an internal core consisting of linear strands of very high tenacity Spectra® fiber encased in a tightly braided “Encapsulated” Spectra sheath. The Spectra fiber bundles used in the sheath are first encapsulated in polyethylene and then braided around the linear Spectra core, making an extremely wear-resistant line, ideal for kiteboarding leader-lines. Most leader lines fail due to the

individual fibers in the braid being broken. The line first “fuzzes” up and then fails. The encapsulation protects the fibers greatly extending the life of the lines. All strength in the line is attributed to the core only, with the over-braid’s function limited to protecting and keeping the core bundle together. Since the fibers taking the stress are linear from the start, the continuous ‘stretch’ and wear found in traditional line, where the braid tightens with use does not exist. Any stretch is limited to the elongation of the actual linear core fibers, which is minimal when compared to standard braided leader lines. **Q-LeaderLines** have a distinctive Hi-Visibility yellow/black checkerboard pattern, making them very easy to see in the water.

23.31500.0075      **Q-LeaderLine** 1500 lb. (680 kg), 75 ft (22.86 m) spool      \$ 72.00

### **Q-LeaderLine Pro**

**Q-LeaderLine Pro** is the ultimate line for outside leader-lines. All the benefits of **Q-LeaderLine** with the addition of a central neoprene core. Since all of the stress on the line is taken by the linear spectra, the neoprene remains uncompressed when the line is under tension. The line therefore has “give” when grabbed; ensuring the pilot can get a good grip on the outside lines when spinning the kite around from its back during relaunch. The neoprene core also increases the lines flotation, ensuring that it remains on the top of the water to prevent any tangling during crashes and making it easy to locate.

20.32000.0075      **Q-LeaderLine Pro** 2000 lb. (907 kg), **HiVis Yellow/Black**, 75 ft (22.86 m)      \$ 84.00

### **Spectra Thread**

Some customers like to finish their lines with sewn loops on the ends rather than tied loops. The best thread for sewing strong Spectra based products is obviously spectra Thread. However, it is often difficult to locate a good source for Spectra thread, for this reason we offer spools of braided spectra thread from 4 lb test to 200 lb test depending on the application. Please contact us for details and pricing.

## **Terms & Conditions**

1. All prices are in US Dollars.
2. **PowerLine Sports** will endeavor to hold prices firm for the calendar year. However, due to international trade and other conditions beyond our control we reserve the right to change prices at any time without prior notice. All orders will be priced at the level in effect when the orders are originally received by **PowerLine Sports**. If current prices do not agree with the prices on the purchase order the customer will be contacted and advised before the order is processed.
3. To ensure that shipments can be properly tracked and insured, all shipments are sent by; Expedited Post. If a customer requires delivery by another method it will be at their expense.
4. **PowerLine Sports** welcomes new customers and would be pleased to assist you in putting together your order. Orders can be prepaid by certified check, bank transfer, money order, VISA or MasterCard.
5. Returns: All claims must be reported within 10 days of receipt of order, must have prior written authorization and be within 30 days of shipment. Unauthorized returns or returns not exhibiting a valid Return Authorization Number will be refused. No used merchandise, or merchandise without original packaging will be accepted for return. Items being returned are subject to a 15% restocking charge.
6. Damages or Shortages in Transit: It is the customer’s responsibility to file a claim with the carrier to secure a proper settlement. Of course **PowerLine Sports** will assist you in any way possible. Check your orders carefully on receipt.
7. Warranty: **PowerLine Sports** is proud of the quality of the products it supplies, and warrants all products to be free from defects in material and workmanship. In the unlikely event that you receive a product that you feel is defective; please contact our office immediately to discuss the problem. If the problem cannot be rectified and the product is defective, **PowerLine Sports** will ship a replacement product to you ASAP. On receipt and verification of the defective product, **PowerLine Sports** will promptly credit your account for both the item and the shipping charges (both ways, normal ground mail).
8. **PowerLine Sports**, and its suppliers decline all liability for any accidents and/or damages that may arise from the use of their products.



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