

Antenna Support Line

Synthetic Rope Characteristics

Man-made fiber ropes are stronger and more durable than those made of natural fibers. Most chemicals, rot, or mildew do not affect synthetic rope. Most synthetic rope may be stored wet or dry.

NYLON

Nylon is highly elastic and can absorb sudden shock loads that would break ropes of other fibers. It has very good resistance to abrasion, rot, oils, gasoline, grease, marine growth and most chemicals. Nylon deteriorates more rapidly than Polyester when subjected to direct sunlight. Due to the characteristic stretch of nylon, wire antenna installations will require frequent retensioning of the support ropes.

POLYESTER (i.e., Dacron®)

Dacron® Polyester is not quite as strong as nylon, but has far better resistance to ultraviolet degradation from sunlight. It is not as elastic as nylon and therefore does not stretch as much as nylon. These characteristics are a plus in an antenna support rope. Other than these two distinctions, the nylon and polyester characteristics are practically the same.

POLYPROPYLENE

This is a strong, lightweight rope. It is waterproof, and resistant to rot, oils, gasoline and most chemicals. Polypropylene is subject to rapid deterioration when exposed to direct sunlight, so its life is very short when used as an antenna support rope.

POLYETHYLENE

Polyethylene is similar to Polypropylene, but is slightly heavier. It is not as strong. It, too, deteriorates quickly in direct sunlight.

Compared with Nylon, Dacron polyester is a far more useful and desirable antenna support line.

Prices and specifications are subject to change without notice.

KEVLAR®

By weight, Kevlar® is stronger than steel. This is the material used in 'bulletproof vests.' The molecular structure is such that it does not stretch and this characteristic makes it perfect for many antenna applications (boom and element support in beams, and general antenna use). Without a protective jacket, it deteriorates rapidly in sunlight. To counter this problem, Kevlar rope, meant for out-of-doors use, has a protective outer jacket made of Dacron® Polyester. The combination results in an incredibly strong, stretchless, long life rope. *Remember, Kevlar does not stretch. take this into account when using it with wire antennas in trees.*



KEVLAR®

The Vertical Antenna Support Line

Our Kevlar line is perfect for guying vertical antennas. It is strong (500 pound test), is made to endure severe weather and the devastating UV effects of the sun. Most importantly, Kevlar line DOES NOT STRETCH. You don't have to keep readjusting the length of the guys.

We recommend guying all verticals. One set of guys will dramatically increase the survivability of the antenna in heavy weather. If the vertical antenna is over 25 feet tall, you might want to consider using two or more sets of guys. Follow the antenna's instructions for guying. If instructions are not included, you can just tie our Kevlar line to any appropriate point on the antenna. Kevlar line is nonconductive.

Not for guying towers

KEVLAR®

The Boom Support Line

Kevlar line is also perfect for supporting beam antenna booms or elements. The high strength, low wind resistance and non-stretch characteristics are just what you need for beam element or boom support.

Antenna Support Rope

We carry several antenna support rope types. Our Mil Spec Dacron® rope is by far the most popular. It is excellent for nearly every antenna installation purpose. Our .075", 500 pound test Kevlar® comes in third in popularity. Our Kevlar line is perfect for use as a boom or element support line in beams. Its small size adds little to the wind resistance of the beam antenna. Use Kevlar to 'guy' a vertical antenna. It increases the wind-survival rating by a large percentage. Kevlar is also popular as a wire antenna support rope.

Our best Dacron antenna support rope is our Double-Braided type. It has the longest life of all our premium antenna support lines. It's the second most popular type.

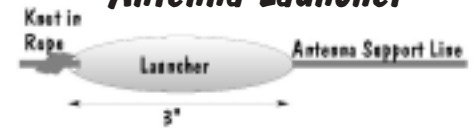
Mil Spec Dacron®

We now have this very popular rope manufactured exclusively for the RADIO WORKS. It's even better than the original because we are getting the same rope the military is buying, not the mill-ends or seconds.

Kevlar®

This Kevlar rope is available exclusively from us. Because it does not stretch, it is perfect for 'guying' vertical antennas and beams elements and booms. The Dacron® outer jacket gives long, reliable life. It's available only in 200-foot spools. Do not use to support wire antennas unless tension release device is used.

Antenna Launcher



\$4

The "Lead Launcher"

Here is one way to get your antenna support line over a tree branch or other support. Just insert your antenna support line (up to 3/16") through the hole in the Launcher. Tie a knot in the support line and you're ready to throw. You can use two or three Launchers if you have a very dense tree. Our 3/16" Mil Spec and Double-braided Dacron® rope are a perfect fit.

Launchers are perfect for field day, portable and emergency operation as well as putting up wire antennas in your backyard.

Rope Grip™ \$5



The Rope Grip™ works perfectly with our 3/16" Double-braid line. The Rope Grip™ is great for adjusting the tension on your antenna support lines. The harder the rope pulls, the harder the Rope Grip™ grips.

Note: Rope Grip™ does not work with our Mil Spec rope. The single diamond weave type is not compatible.

All rope is factory fresh

Specification	New					New	
	Mil Spec Dacron®	Black Dacron®	Double Braided Dacron®	Double Braided Dacron®	Double Braided Dacron®	Kevlar® + Dacron®	Kevlar® + Dacron®
Size	#5 (3/16")	#5(3/16")	3/32"	3/16"	5/16"	.075"	1/8"
Static Test Weight, pounds	750	750	260	770	1700	500	770
Max working load, pounds	140	150	52	150	340	120	150
Color	Olive Drab	Black	Black	Black	Black	Black	Black
Abrasion resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Initial stretch	Good	Good	Good	Good	Good	None	None
Insulation properties	Very high	Very Good	Very high	Very high	Very high	Very high	Very high
Maximum length	3000 feet *	1000'	3000 feet	500 feet	500 feet	200 feet **	500 feet
Price per 100' hank	\$ 10	\$10	\$8	\$14	\$21		\$14
Spool Price	\$240 (3000')	\$83 (1000')	\$189 (3000')	\$60 (500')	\$90 (500')	\$18.50 (200')	\$60 (500')

* 3000 foot spools of Mil Spec Dacron may not be continuous. Full spools may have one or two splices.

** Available only in 200 foot spools You may order up to the spool length in continuous length. i.e 400' hank

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