

WindomHSQ

Is a new antenna concept-- simple, small, yet highly effective. WindomHSQ™ is an off-center-fed bent wire. The bending produces a compact antenna, longhop radiation angles, and multidirectionality. The off-center feed gives low SWRs on nearly every band.

If you only have room for one HF antenna, consider WindomHSQ™ seriously. It requires no tower or rotator. It favors long hops on all bands and in all directions. It takes only a 66' span, is easy to install, and generally needs no tuner adjustment when you change frequency within or between bands.

No-Tune Design. To multiband the WindomHSQ™ we apply energy to the antenna off center at a unique spot where the impedance is the same on many bands. Our broadband devices inserted at that point allow the antenna to be fed with 50 ohm coaxial cable. It provides no-tune coverage of the 80, 40, 20, 17, 12, & 10 meter amateur radio bands. VSWRs on the covered bands are typically well under 2:1, easily within the range of solid state transceivers designed for 50 ohm loads. You can work all the others with an appropriate antenna tuner. Equally important, WindomHSQ off-center feed gives double the bandwidth of a standard dipole.

Construction. The 80-10 WindomHSQ has a 66 ft feet flat top with 33 ft tails. It is made of #14 Black QuietFlex™ antenna wire, factory assembled, weathersealed, and pretuned for best multiband performance. When you get it, attach your feedline, hang it up, and it's ready to go.

Installation. Install WindomHSQ at a height of 35 ft or greater with the center section as horizontal as practical. Support it with nonconductive double dacron line. Let the tails hang free. Take advantage of trees as supports by using the QuickLaunch Antenna Installation System. Limit tension at antenna ends to 60 pounds.

Look at these radiation patterns for representative bands. Notice that low angle radiation below 20 degrees is strong on all bands above 80 meters. That's the reason there is such good long-hop performance. Notice also that there are no deep nulls RF goes every direction. That means antenna orientation is not critical--No matter what direction it runs, you will still be able to work long hop signals in all directions.

Contest Proven

Two days before Field Day Bob drew weekend duty at the hospital. Our elaborate contest strategy was sunk. No mountain cabin, no antenna farm.

I needed a new strategy. I took off after work and drove east up Hobbles Creek Canyon, 10 miles south of the shop. Taking the south fork, I drove upward till the road turned to gravel, then to ruts, still climbing. I was looking for one thing: A sparsely-wooded ridge below the frost line. It had to run north-south, have a clearview to the east, and be accessible without using the bike or the

WindomHSQ

Is a new antenna concept-- simple, small, yet highly effective. WindomHSQ™ is an off-center-fed bent wire. The bending produces a compact antenna, longhop radiation angles, and multidirectionality. The off-center feed gives low SWRs on nearly every band.

If you only have room for one HF antenna, consider WindomHSQ™ seriously. It requires no tower or rotator. It favors long hops on all bands and in all directions. It takes only a 66' span, is easy to install, and generally needs no tuner adjustment when you change frequency within or between bands.

No-Tune Design. To multiband the WindomHSQ™ we apply energy to the antenna off center at a unique spot where the impedance is the same on many bands. Our broadband devices inserted at that point allow the antenna to be fed with 50 ohm coaxial cable. It provides no-tune coverage of the 80, 40, 20, 17, 12, & 10 meter amateur radio bands. VSWRs on the covered bands are typically well under 2:1, easily within the range of solid state transceivers designed for 50 ohm loads. You can work all the others with an appropriate antenna tuner. Equally important, WindomHSQ off-center feed gives double the bandwidth of a standard dipole.

Construction. The 80-10 WindomHSQ has a 66 ft feet flat top with 33 ft tails. It is made of #14 Black QuietFlex™ antenna wire, factory assembled, weathersealed, and pretuned for best multiband performance. When you get it, attach your feedline, hang it up, and it's ready to go.

Installation. Install WindomHSQ at a height of 35 ft or greater with the center section as horizontal as practical. Support it with nonconductive double dacron line. Let the tails hang free. Take advantage of trees as supports by using the QuickLaunch Antenna Installation System. Limit tension at antenna ends to 60 pounds.

Look at these radiation patterns for representative bands. Notice that low angle radiation below 20 degrees is strong on all bands above 80 meters. That's the reason there is such good long-hop performance. Notice also that there are no deep nulls RF goes every direction. That means antenna orientation is not critical--No matter what direction it runs, you will still be able to work long hop signals in all directions.

Contest Proven

Two days before Field Day Bob drew weekend duty at the hospital. Our elaborate contest strategy was sunk. No mountain cabin, no antenna farm.

I needed a new strategy. I took off after work and drove east up Hobbles Creek Canyon, 10 miles south of the shop. Taking the south fork, I drove upward till the road turned to gravel, then to ruts, still climbing. I was looking for one thing: A sparsely-wooded ridge below the frost line. It had to run north-south, have a clearview to the east, and be accessible without using the bike or the

backpack.

At Pump Handle ridge a side trail turned south. There were two tall pines east of the crown, 75ft apart in a direct north-south line. This would be the place.

This year would be my simplest field day ever--one guy, one antenna, one 4- watt rig, no tuner, one backpack 500 mA solar panel, one gel cell, one audio filter, one loaf of bread, one jug of water, one bed right by the operating table inside the van. I would sleep when I got tired or when nothing was propagating. The antenna and launching system were in a bucket. All the rest of the station fit inside an old typewriter case.

Only One Antenna?

I hadn't done field day with only one antenna for as long as I could remember. You have to have options when conditions change. But this time I was stuck. One would have to do. If you had only one single antenna for a whole field day what would you choose?

I chose the long-hop WindomHSQ.

On 80 meters the WindomHSQ would have the high angle Omni-directionality of an inverted-V, giving good one-hop access to all the stations in the west. On 40 meters it would fire long to the east with nearly an S-unit of gain, but it would still play some short-skip diagonally off the ends. On 20 and 15 meters it would have the same long hop gain to the east, along with other low angle lobes going everywhere else. And it would play no-tune on all these bands.-Just switch and call.

It did everything I expected and more. It was the best single multiband HF antenna I have ever used. In spite of the I sunspot minimum it produced my best QRP Field Day QSO total ever, working 326 stations in 68 sections in 15 hours of operation (I slept 9 hours!). In the midst of all the North American QRM, WindomHSQ even raised two European answers to my 4-watt 20 meter CQs. Talk about a long hop antenna! de KK7C

ANTENNAS & MORE

POB 51591

Provo, UT 84605

Phone: (801)362-5370

Web Site <http://www.antennamore.com>

backpack.

At Pump Handle ridge a side trail turned south. There were two tall pines east of the crown, 75ft apart in a direct north-south line. This would be the place.

This year would be my simplest field day ever--one guy, one antenna, one 4- watt rig, no tuner, one backpack 500 mA solar panel, one gel cell, one audio filter, one loaf of bread, one jug of water, one bed right by the operating table inside the van. I would sleep when I got tired or when nothing was propagating. The antenna and launching system were in a bucket. All the rest of the station fit inside an old typewriter case.

Only One Antenna?

I hadn't done field day with only one antenna for as long as I could remember. You have to have options when conditions change. But this time I was stuck. One would have to do. If you had only one single antenna for a whole field day what would you choose?

I chose the long-hop WindomHSQ.

On 80 meters the WindomHSQ would have the high angle Omni-directionality of an inverted-V, giving good one-hop access to all the stations in the west. On 40 meters it would fire long to the east with nearly an S-unit of gain, but it would still play some short-skip diagonally off the ends. On 20 and 15 meters it would have the same long hop gain to the east, along with other low angle lobes going everywhere else. And it would play no-tune on all these bands.-Just switch and call.

It did everything I expected and more. It was the best single multiband HF antenna I have ever used. In spite of the I sunspot minimum it produced my best QRP Field Day QSO total ever, working 326 stations in 68 sections in 15 hours of operation (I slept 9 hours!). In the midst of all the North American QRM, WindomHSQ even raised two European answers to my 4-watt 20 meter CQs. Talk about a long hop antenna! de KK7C

ANTENNAS & MORE

POB 51591

Provo, UT 84605

Phone: (801)362-5370

Web Site <http://www.antennamore.com>



**OFF CENTER
FEED**

WindomHSQ™

Multiband Long Hop No Tune Antenna

- ◆ The wire Beam Antenna.
- ◆ Rivals Yagi beams in performance.
- ◆ Stealthier than a Yagi, and costs less.
- ◆ No Tune
- ◆ Low Noise
- ◆ Full 2 KW power rating
- ◆ Low angle of radiation
- ◆ Weather sealed
- ◆ Insulated Antenna Wire
- ◆ Does not require the antenna be deployed higher than to keep the vertical elements off the ground
- ◆ Feed with 50 ohm coax 50', 71', 98' lengths work best
- ◆ Can be hung as a flat top or half-squire
- ◆ Has a toroid 1:1 balun to stabilize the feedline, no more balun required on the feedline

WinHSQ 80-10 \$99.95us
Size 66' Horiz. 33' Vert.

WinHSQ/2 40-10 \$89.95us
Size 33' Horiz. 16' Vert.

Antennas & More POB 51591 Provo, UT 84605 (801)362-5370



**OFF CENTER
FEED**

WindomHSQ™

Multiband Long Hop No Tune Antenna

- ◆ The wire Beam Antenna.
- ◆ Rivals Yagi beams in performance.
- ◆ Stealthier than a Yagi, and costs less.
- ◆ No Tune
- ◆ Low Noise
- ◆ Full 2 KW power rating
- ◆ Low angle of radiation
- ◆ Weather sealed
- ◆ Insulated Antenna Wire
- ◆ Does not require the antenna be deployed higher than to keep the vertical elements off the ground
- ◆ Feed with 50 ohm coax 50', 71', 98' lengths work best
- ◆ Can be hung as a flat top or half-squire
- ◆ Has a toroid 1:1 balun to stabilize the feedline, no more balun required on the feedline

WinHSQ 80-10 \$99.95us
Size 66' Horiz. 33' Vert.

WinHSQ/2 40-10 \$89.95us
Size 33' Horiz. 16' Vert.

Antennas & More POB 51591 Provo, UT 84605 (801)362-5370