

100W 10-40M Portable HF-DLX MagLoop

The 10-40M 100W PEP HF Deluxe (HF-DLX) MagLoop delivers high ERP (Effective Radiated Power) with easy tuning due to the built-in 6:1 reduction drive. Its design rejects off frequency RFI and the shielded Faraday pick-up loop reduces on frequency RFI (Radio Frequency Interference).

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Specifications

- *100W PEP SSB, 50W CW, and 20W Digital & FM on 10-40 meters
- ***20 Watts PEP SSB, 10 Watts CW, and 5 Watts Digital & FM on 40-80 meters with the Optional ^40-80 Loop.
- ****6 Meter, 2 Meter & 440 MHz when the optional add-on element is purchased & installed.
- IP Rating: IP-53 – Protected against dust limited ingress, no harmful deposits. Protected against direct sprays of water up to 60 degrees from the Vertical.
- Physical Parameters: Diameter 3 feet
- Environmental Parameters: -15 to 90 (in direct sunlight) degrees Fahrenheit and winds up to 35 Mph

Included

2 – 16 inch masts that couple together with a built-on coax mount

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1 – Tuning box with Female 5/8 – 11 mount (Optional 1/4-20 adapter is available for photography tripods)

1 – Outer loop for 10-40M. An optional ^40-80M Loop can be daisy chained in series with the 10-40M outer loop for coverage from 7.0 to 3.5MHz.

1 – Inner shielded faraday loop

1 – Field Bag for the Alpha MagLoop

Materials Used

The following materials are used in the construction of the Alpha Loop antenna:

- Gold,
- Solder,
- Nylon,
- Ceramic,
- Aluminum,
- Stainless steel,
- Marine shrink tubing,
- Times Microwave LMR400, and
- 3D Carbon Fiber infused polymers.

Bandwidths

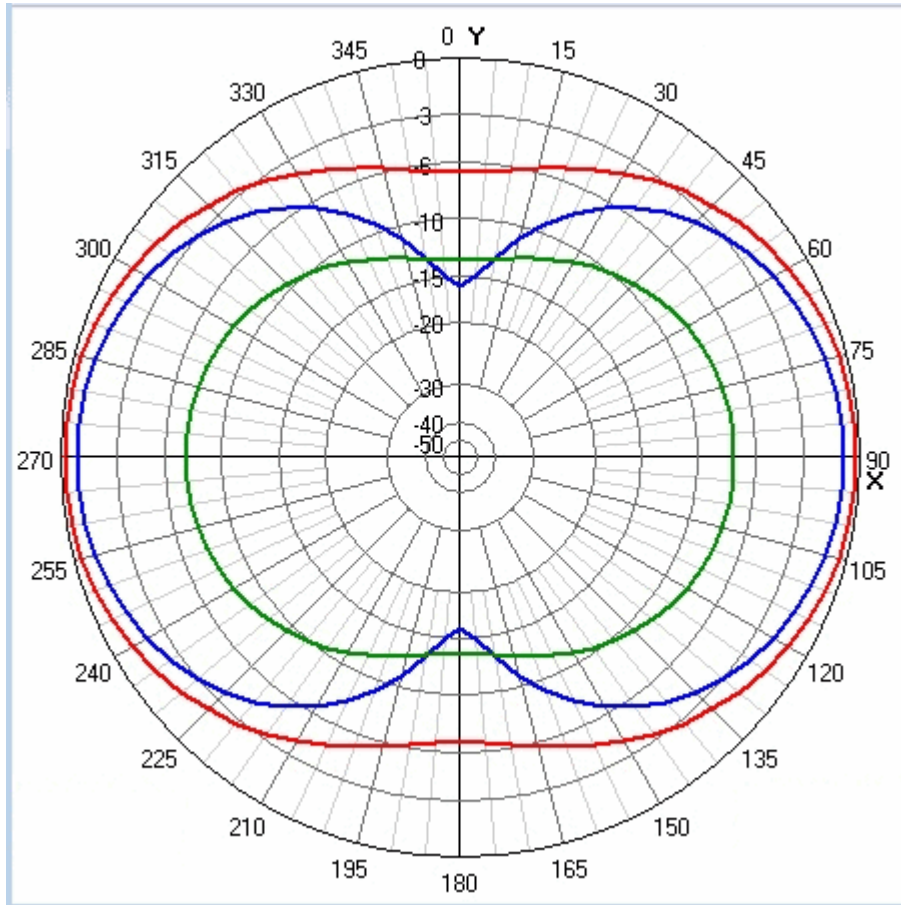
[Click Here](#) for the bandwidth and tuned results while using just the Default Outer Loop and [Clicking Here](#) for the bandwidth and tuned results while using only the longer Booster cable.

Signal Patterns

Green = 40 meters, Blue = 20 meters, Red = 10 meters

Vert. Elevation Pattern

 Azimuth Elevation Pattern



Loop Differences

Alpha Antenna has two different Magnetic Loop antennas. [Click Here](#) to learn the differences and similarities between this EmComm Loop and the Model 100W MagLoop.

Evolution of Efficiency

In 2014 Alpha Antenna offered a built-in LED tuning aid that would light up at approximately 5 Watts when the loop was tuned. We removed the LED, which activated at about 5 W, because it diverted power from transmission. Without the LED, more energy is radiated, improving antenna efficiency.

Assistance

[FAQs: Alpha Loop MagLoop antenna](#)

We Listen

We are dedicated to improving all of our [Portable VHF UHF HF Antennas](#).
Specifications and descriptions are subject to change without notice.

5.0



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Thank you for fast shipping and a great product

MN

2.

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The antenna has been working awesome. Full disclosure, I've only worked 20m, but that's because there's been no reason to change. I bought this, had it delivered in 2-3 days, spent about 10 minutes (most spent re-figuring out my NanoVNA menus) tuning it. First time out, had it at 1.3 SWR.

I worked it a few days and had good results. 20M, West Coast US (near San Diego) and had FT8 confirmed QSOs within minutes. A couple days later decided to get it out of the living room, and was a bit more patient tuning. Again in just a few minutes, I had it 1.0 SWR for 20M FT8 (14.074 MHz I believe). Again good contacts. I have it near AC power strip, so I have a feeling when I do a better job moving all AC away it's going to go nuts.

Despite what any articles, FAQ, or even Alpha online help says, keep the middle loop aligned with outside. I started seeing >2.0 and then realized the loop was shifted.

Also, at one point no matter what, I couldn't get it below 1.8 SWR. I moved it about 12 inches northward, and elevated it about 6 inches. BAM! 1.0 almost within seconds.

I worked 20M last night (July 4th AM), sent CQ, and had a pile up from the East Coast, Puerto Rico, Canada, Mexico, and some islands off the Florida coast. 20M was popping. I had jumped on to get 1-2, and ended with 6 (all confirmed in QRZ) in just a few minutes on-air.

I put mine on an Amazon tripod for speakers (rated to 90 pounds), and it's a rock star. I can't say enough.

73s, Happy 250th Birthday to the US, and a million thank yous to the men and women who make Alpha Antennas. Ironically I was on a local 2M repeater a few days ago, and they were singing praises of Alpha's participation at their club event.

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RP

4.

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WC

5.

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June 8, 2026



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Excellent quality. Great customer service. Antenna works very well!

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